Action Plan
2008-09

KRISHI VIGYAN KENDRA BURDWAN

KRISHI VIGYAN KENDRA BURDWAN
Central Research Institute for Jute & Allied Fibres (ICAR)
Budbud, Burdwan, W.B. 713 403
www.kvkcrijaf.org.in

Annual Action Plan
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Introduction

A Krishi Vigyan Kendra (KVK) under Central Research Institute for Jute and Allied Fibres (CRIJAF) was sanctioned by Council in 2005 for district Bardhaman in West Bengal. The KVK has been made operational at Central Seed Research Station for Jute and Allied Fibres, Bud Bud in district Bardhaman under CRIJAF in the beginning of 2006. Consequent to initiation of activities by the KVK, village Keten, to start with, was selected for its adoption by the KVK to implement its mandated activities. Subsequently two new villages at Galsi I and Galsi II block were adopted in this year.

Description of Agro Climatic Zone and Farming situation of the district

As per classification made under NARP, West Bengal has been classified under six zones. District Burdwan having diversified features, falls under three zones, namely old alluvial zone, new alluvial zone and red and laterite soil zone. The KVK farm at Bud Bud, however, falls under old alluvial zone.

Burdwan is the only district in the state of West Bengal that is fortunate both in industry and agriculture. On an average about 58 percent of the total population belongs to the agricultural population while the non-agricultural sector accounts for the remaining 42 percent.

The eastern, northern, southern and central areas of the district are extensively cultivated but the soils of the western portion being extreme lateritic type are unfit for cultivation except in the narrow valleys and depressions having rich soil. Rice is the most important crop of the district. Paddy covers maximum of the gross cropped area. Among commercial crops, jute, sugarcane, potato and oilseeds are major crops. Productivity of the major crops grown in the district is indicated below. Major cropping patterns include paddy-wheat-vegetables, paddy – potato – sesame, paddy – vegetable – mustard and jute – paddy – vegetables.

District profile:

Total land in the district (ha.)	698740
Total cultivable land in the district (ha.)	466630
Irrigated land (ha.)	33890
Rain-fed-land (ha.)	130740
Total no. of block / taluka in the district	31
Total no. of villages	2529
Total population of the district:	6895514 as on 2001
Total population of the farmers of the district	358395
Total no. of farmers in each village (Avg):	141
Large farmers (in terms of land holding)	42
Semi medium farmers (in terms of land	42

holding)	
Medium farmers (in terms of land holding)	28
Small farmers (in terms of land holding)	21
Landless farmers	7
Major crops of the district	Rice, potato, mustard, jute, sesame, lentil, chickpea, groundnut, vegetables

Animal resources of district

Total no. of cattle wealth in the district:	
(a) Cow	1655904
(b) Buffalos	127539
(c) Bull	24250
(e) Pig	120904
(f) Others :	
Fowl	3141669
Duck	1835094

Major problems identified:

(a) Crop Science	1) Non-availability of quality seed materials 2) Low productivity of major crops 3) Limited water resources for irrigation 4) Use of low yielding old varieties 5) Lack of knowledge about improved scientific practices 6) Lack of crop insurance facilities 7) Low productivity of fruit crops
(b) Soil & Water Science	1) Indiscriminate and inappropriate use of chemical fertilizers 2) Low input of organic manures and biofertiliser 3) Lack of awareness of soil test based fertilizer application 4) Lack of awareness about rainwater harvesting
(c) Animal Science	1) Inadequate cross bred animal 2) Inadequate health care of poultry, duck 3) Poor feed resources 4) Lack of availability of quality fish seed 5) Poor maintenance of fish ponds 6) Lack of credit facilities 7) Lack of awareness about scientific pond management and improved practices of fish culture like composite fish culture, ecocentric fish culture etc.

ON FARM TRIALS

CROP PRODUCTION

OFT - 1 :

1.	Title	:	**Assessment of performance of Sulphur on productivity of mustard under rainfed and medium to low land situation of Burdwan district**
2.	Problem definition	:	Productivity of oilseeds in the district is rather low, one of the principal reasons being faulty nutrient management. They are mostly unaware of role of sulfur in augmenting productivity. Since most of the farmers prefer to use DAP as P source, application of sulfur becomes practically nil.
3.	Production System	:	Rainfed rice based production system
4.	Micro-farming Situation	:	Medium upland to lowland. Mustard is mostly irrigated with 3 - 4 irrigations.
5.	Hypothesis	:	Application of sulfur can augment yield from 15 – 30 %
6.	Technologies to be assessed	:	**Farmers' practice:** (60: 60: 45 kg NPK/ha through DAP, urea and MOP) **Technology - 1 to be assessed**: Recommended dose of fertilizer (80: 40: 40 kg NPK/ha) through urea, SSP and MOP **Technology - 2 to be assessed**: Recommended dose of fertilizer (80: 40: 40 kg NPK/ha) through DAP, urea, MOP and Gypsum
7.	Source of technology	:	B.C.K.V., Kalyani
8.	Critical inputs	:	SSP and gypsum
9.	Unit size	:	0.10 ha
10.	No. of replication	:	Seven
11.	Unit cost	:	Rs. 900.00
12.	Total cost	:	Rs. 6300.00
13.	Monitoring indicators	:	• Yield attributing characters • Yield • Economics

CROP PRODUCTION

OFT- 2 :

1.	Title	:	**Assessment of performance of kharif rice productivity through judicious nutrition under medium to low land situation of Burdwan district**
2.	Problem definition	:	A major part of district Burdwan is under rice-rice production system. Farmers observe a gradual decline in productivity which may be attributed to such kind of cropping coupled with non use of organics.
3.	Production System	:	Rainfed rice based production system
4.	Micro-farming Situation	:	Medium upland to lowland. Rice is predominantly rainfed lowland crop with 2-3 supplemental irrigations.
5.	Hypothesis	:	Integrated and balanced application of fertilizer increases productivity as well as maintains soil health.
6.	Technologies to be assessed	:	**Farmers' practice**: (60:60:45 kg NPK/ha through DAP, urea and MOP) **Technology - 1 to be assessed:** Recommended dose of fertilizer (80: 40:40 kg NPK/ha) **Technology - 2 to be assessed:** 75% recommended dose + Sesbania (in situ) * **Technology - 3 to be assessed:** 75% recommended dose + Sunnhemp (in situ)
7.	Source of technology	:	PAU, Ludhiana
8.	Critical inputs	:	Seeds of Sesbania and sunnhemp and fertilizers
9.	Unit size	:	0.05 ha
10.	No. of replication	:	5
11.	Unit cost	:	Rs. 1000.00
12.	Total cost	:	Rs. 5000.00
13.	Monitoring indicators	:	• Initial and final NPK and organic matter content in soil • Yield attributing characters • Yield • Economics

** Sesbania and sunnhemp will be grown in situ and will be mixed after 45 days

HORTICULTURE

OFT - 3 :

1.	Title	:	**Evaluation of nutrient management in potato in Burdwan**
2.	Problem definition	:	Low yield of potato is one of the common problems to the farmers due to imbalanced use of fertilizers. At the same time plants suffer micronutrient deficiencies that may also reduce the yield.
3.	Production System	:	Irrigated vegetable based
4.	Micro-farming Situation	:	Medium to upland. Average rainfall is 1500 mm. The cold season starts from about the middle of November and continues till the end of February. Average temperature in cold season is 20^{o}C.
5.	Hypothesis	:	Soil test based fertilization will fetch higher return
6.	Technologies to be assessed	:	**Farmers' practice** (150: 100: 50 NPK per ha through DAP, urea and MOP) **Technology - 1 to be assessed:**. Recommended dose (200:150:150 NPK per ha through urea, SSP and MOP) **Technology - 2 to be assessed:** Soil test based fertilization
7.	Source of technology	:	B.C.K.V., Kalyani
8.	Critical inputs	:	Fertilizers and micronutrients
9.	Unit size	:	600 sq. m.
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 800.00
12.	Total cost	:	Rs. 5600.00
13.	Monitoring indicators	:	• Yield • Tuber weight • Cost-benefit ratio

VETERINARY SCIENCE

OFT - 4 :

1.	Title	:	**Assessment of strategic supplementation for pregnant Doe in Burdwan district**
2.	Problem definition	:	Farmers usually receive underweight kid with high mortality rate through out the year. It can be attributed to mal-nutrition of pregnant doe (Breed- Bengal Goat)
3.	Production System	:	Semi intensive goat based production system
4.	Micro-farming system	:	House hold farming with 4-6 goats, maintained with grazing in day time
5.	Hypothesis	:	Additional feeding during pregnancy will improve the kid weight and reduce kid mortality rate
6.	Technologies to be assessed	:	**Farmers' practice** (only grazing and used to offer kitchen waste) **Technology - 1 to be assessed:** Feeding of homemade concentrate* @ 50 gm/day/goat from 120days of gestation to parturition **Technology - 2 to be assessed:** Feeding of homemade concentrate* @ 50gm/day/goat from 90 days of gestation to parturition
7.	Source of technology	:	WBUAFS, Kolkata
8.	Critical inputs	:	Home made feed
9.	Unit size	:	Three (3) pregnant Bengal goats in each treatment
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 800.00
12.	Total cost	:	Rs. 5600.00
13.	Monitoring indicators	:	• Body weight of kids at birth • Kid mortality • Benefit cost ratio

* The ration is composed of 1/3 part cereal grain, 1/3 part oil cake, 1/3 part cereal byproducts and mineral mixture with vitamins and salt

VETERINARY SCIENCE

OFT- 5 :

1.	Title	:	**Evaluation of supplemented feeding in lactating deshi cow in Burdwan district**
2.	Problem definition	:	Poor milk yield in deshi cow was noticed by the farming community. Feeding of cereal straws with imbalanced feed supplementation might be the reason for low milk productivity.
3.	Production System	:	Cattle based under semi intensive system
4.	Micro farming system	:	House hold farming with 2-4 deshi cattle under traditional feeding practices.
5.	Hypothesis	:	Adequate feeding with energy and protein rich ration will enhance milk yield and high return.
6.	Technologies to be assessed	:	**Farmers' practice:** (Feeding of rice polish- 1 to 2 kg, 5 to 6 kg soaked straw and grazing) **Technology 1 to be assessed:** Farmers' practice + soaked oil cake (0.5 kg/day) (locally available) **Technology 2 to be assessed:** Farmers' practice + concentrate home made feed * (1kg/day)
7.	Source of technology	:	IVRI, Izatnagar
8.	Critical inputs	:	Formulated home made feed and oil cake
9.	Unit size	:	1 deshi lactating cow in each treatment
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1000.00
12.	Total cost	:	Rs. 7000.00
13.	Monitoring indicators	:	• Feed Intake • Milk Yield • Lactation period • Calving interval

* Home made feed : A ration will be formulated using locally available feed ingredients like broken wheat /maize-30 parts, mustard /Ground nut cake-25 parts, rice husk-40 parts, rice bran- 2 parts, common salt-1part and mineral mixture- 2 parts

FISHERY SCIENCE

OFT - 6 :

1.	Title	:	**Evaluation of formulated feed for increasing fish productivity under pond ecosystem of Burdwan**
2.	Problem definition	:	The ponds of Jagulipara in Galsi-I of Burdwan district, having problem of less or no feeding practices, leading to poor fish productivity in domestic small and medium sized ponds. As feed is the single most important factor in post stocking management of ponds, the rate of feeding should be standardized.
3.	Production System	:	Extensive fish based production system
4.	Micro-farming Situation	:	Medium or small sized domestic water bodies
5.	Hypothesis	:	Application of feed at proper rate in proper doses would increase the productivity of fish
6.	Technologies to be assessed	:	**Farmers' practice :** (Stocking density 7500 nos. fish/ha) without any application of feed **Technology - 1 to be assessed:** Stocking density 7500 nos. fish/ha + Formulated feed*@ 1 % of total fish biomass **Technology - 2 to be assessed:** Stocking density 7500 nos. fish/ha + + Formulated feed* @ 3 % of total fish biomass
7.	Source of technology	:	CIFA, Bhubaneswar
8.	Critical inputs	:	Formulared feed*
9.	Unit size	:	0.066 ha
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 2140.00
12.	Total cost	:	Rs. 14980.00
13.	Monitoring indicators	:	• Growth rate • Yield performance

*Formulated feed made by locally available feed ingredients (Mustard Oil Cake: rice bran ::1:1 + vitamin premix)

HOME SCIENCE

OFT - 7 :

1.	Title	:	**Supplementation of diversified vegetables to farm families through kitchen garden in Kanksa block of Burdwan – phase II**
2.	Problem definition	:	In India per capita availability is around 135 gm against the minimum requirement of about 300 gm for a balance diet. It is now well conceived that by simply adding greens and other vegetables to the available food grains, the diet of the average Indians can substantially be upgraded and there is a scope for using the unutilized land adjacent to the household.
3.	Production System	:	Homestead vegetable based production system
4.	Micro farming system	:	Upland, kitchen gardening mainly in rainy and winter season
5.	Hypothesis	:	Increase production of the garden and nutritious vegetables improve diet of farm families throughout the year and monetary saving as well
6.	Technologies to be assessed	:	**Farmers' practice :** Generally the farm women plant 2-3 cucurbit plants **Technology - 1 to be assessed:** Diversified vegetables * without manuring **Technology - 2 to be assessed:** Diversified vegetables * + manuring**
7.	Source of technology	:	NRC for Women in Agriculture, Bhubaneswar
8.	Critical inputs	:	Seed and seedlings
9.	Unit size	:	80 sq. m
10.	No. of replication	:	7
11.	Unit cost	:	Rs 600.00
12.	Total cost	:	Rs 4200.00
13.	Monitoring indicators	:	• Total yield (component wise) • Incorporation of vegetables in daily diet • Surplus production • Monetary savings

* Diversified vegetables: Cucurbit plants + some leafy vegetables like Palak, Indian spinach, Amaranthus + vegetables like chilli, okra, brinjal, dolichos bean and tomato.

** Manuring : Application of manures like kitchen wastes, cowdung, whichever available in home stead

PLANT PROTECTION

OFT - 8 :

1.	Title	:	**Assessment of selective chemical measures for controlling stem borer in Kharif paddy in Burdwan district**
2.	Problem definition	:	This is one of the major insects of Kharif paddy in this region causing heavy loss.
3.	Production System	:	Rainfed and irrigated condition.
4.	Micro-farming system	:	Medium upland to lowland. Rice is predominantly rainfed lowland crop with 2-3 supplemental irrigations. Avg. temperature is 30^{o} C in summer and 20^{o} C in winter.
5.	Hypothesis	:	Sole reliance on pesticides and disregards for deleterious side effects can no longer be accepted. Shift is urgently required in view of rationalizing the pesticides uses through the use of selective chemicals to minimize over reliance on pesticides and to minimize the plant protection cost.
6.	Technologies to be assessed	:	**Farmers' practice**: Frequent use of Monocrotophos 36% E.C @ 750 ml/ha. **Technology - 1 to be assessed:** Phorate 10 G @12.5 Kg/ha at seed bed, 5 to 7 days before pulling the seedling for transplanting + Spray with Cartap 50 % SP @ 800 g/ha in panicle initiation to flowering stage + Spray with Fipronil 5% SC @ 1000 ml/ha in flowering stage and repeat of spray 10 days later. **Technology - 2 to be assessed:** Carbofuran 3 G @ 33 kg/ha at seed bed, 5 to 7 days before pulling the seedling for transplanting + Application of Cartap 4 G @ 25 kg/ha in planting to panicle initiation stage + Spray with Cartap 50 % SP @ 800 g/ha in panicle initiation to flowering stage + Spray with Acephate 75% SP @ 750 ml/ha in flowering stage.
7.	Source of technology	:	DRR (ICAR), Hyderabad
8.	Critical inputs	:	Plant protection chemicals
9.	Unit size	:	333 sq. m.
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1200.00
12.	Total cost	:	Rs. 8400.00
13.	Monitoring indicators	:	• Percentage pest infestation • Yield • Economics

INTEGRATED FARMING SYSTEM

OFT - 9 :

1.	Title	:	**Evaluation of performance of crop – fish – livestock integration on improving aquatic niche based production system**
2.	Problem definition	:	Non efficient utilization of resources
3.	Production System	:	Fish based production system
4.	Micro-farming Situation	:	Fish cultivation in medium or small sized tanks without utilizing the bund area
5.	Hypothesis	:	Better resource utilization and generation of income from several commodities/ enterprises
6.	Technologies to be assessed	:	**Farmers' practice:** Fish farming **Technology - 1 to be assessed:** Vegetable + fish + poultry * farming **Technology - 2 to be assessed:** Vegetable + fish + duck** farming
7.	Source of technology	:	BAU, Ranchi
8.	Critical inputs	:	Vegetable Seed, fish fingerlings, ducklings and chicks
9.	Unit size	:	0.05 ha
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 3000.00
12.	Total cost	:	Rs. 21000.00
13.	Monitoring indicators	:	• Economics • Yield • Farmers impact • Post harvest return etc.

* Fifteen no of chicks, suitable for backyard farming

** Fifteen no. of ducklings of Khaki Campbell breed

Summary

S.N.	Discipline /thematic area	OFT No.	Unit size	Cost (Rs.)
1	Crop production	OFT-1	0.10 ha	6300.00
2	Crop production	OFT-2	0.05 ha	5000.00
3	Horticulture	OFT-3	0.06 ha	5600.00
4	Veterinary Science	OFT-4	3 goats	5600.00
5	Veterinary Science	OFT-5	1 cow	7000.00
6	Fishery Science	OFT-6	0.066 ha	14980.00
7	Home Science	OFT-7	0.008 ha	4200.00
8	Plant protection	OFT-8	0.0333 ha	8400.00
9	Integrated farming	OFT-9	0.05 ha	21000.00
Total				**78080.00**

Front Line Demonstration

I. Front Line Demonstration on Oilseeds and Pulses

FLD - 1

1.Crop	:	**Mustard**
2. Thematic area	:	Improved production practice
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Rabi
5. Previous crop	:	Kharif paddy
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium upland
c. Soil type	:	Sandy-loam
7. Area (ha)	:	8
8. Variety	:	Newly released varieties
9. Sowing time	:	November, 2008
10. Name of villages where to be implemented	:	Keten, Jagulipara and Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	50
12. Demonstration cost	:	Rs. 36000.00
a. Components (items)	:	Seed, fertilizer and plant protection chemicals
b. ICAR share	:	Seed, fertilizer and plant protection chemicals
c. Farmers' share		Labour, land preparation, irrigation
13. Cost of extension activities	:	Rs. 4000.00
14. Total cost of demonstration (ICAR share)	:	Rs. 40000.00

FLD - 2

1.Crop	:	**Sesame**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Rabi/ summer
5. Previous crop	:	Mustard, potato
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium to up land
c. Soil type	:	Sandy-loam
7. Area (ha)	:	5
8. Variety	:	Newly released varieties
9. Sowing time	:	March, 2009
10. Name of villages where to be implemented	:	Keten, Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	30
12. Demonstration cost	:	Rs. 22500
a. Components (items)	:	Seed, fertilizer and plant protection chemicals
b. ICAR share	:	Seed, fertilizer and plant protection chemicals
c. Farmers' share		Labour, land preparation, irrigation
13. Cost of extension activities	:	Rs. 2500.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 25000.00**

FLD - 3

1.Crop	:	**Lentil**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Rabi
5. Previous crop	:	Kharif paddy
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium to up land
c. Soil type	:	Sandy-loam
7. Area (ha)	:	**3**
8. Variety	:	HYV and newly released
9. Sowing time	:	November, 2008
10. Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	20
12. Demonstration cost	:	Rs. 14250.00
a. Components (items)	:	Seed, fertilizer and plant protection chemicals
b. ICAR share	:	Seed, fertilizer and plant protection chemicals
c. Farmers' share		Labour, land preparation, irrigation
13. Cost of extension activities	:	Rs.1450.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 15,700.00**

II. Front Line Demonstration on Other than Oilseeds and Pulses

FLD - 4

1.Crop	:	**Jute**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Kharif
5. Previous crop	:	Mustard, potato
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium to upland
c. Soil type	:	Sandy-loam
7. Area (ha)	:	4
8. Variety	:	JRO – 524
9. Sowing time	:	May, 2008
10. Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	20
12. Demonstration cost	:	Rs.17,000.00
a. Components (items)	:	Seed, fertilizer, weedicides and plant protection chemicals
b. ICAR share	:	Seed, Weedicides and Plant protection chemicals
c. Farmers' share		Fertilizer, labour, land preparation, irrigation
13. Cost of extension activities	:	Rs. 1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 18,000.00**

FLD - 5

1.Crop	:	**Paddy**
2. Thematic area	:	Agronomic practices
3. Technology to be demonstrated	:	Improved production technology for paddy
4. Season	:	Kharif
5. Previous crop	:	Paddy
6. Farming situation		
a. Rainfed/ Irrigated	:	Rainfed/ Irrigated
b. Land situation	:	Medium to low land
c. Soil type	:	Clay
7. Area (ha)	:	5
8. Variety	:	MTU - 7029
9. Sowing time	:	July, 2008
10. Name of villages where to be implemented	:	Garamba-Bhasapur and Jagulipara, Burdwan
11. No. of demonstration	:	20
12. Demonstration cost	:	Rs. 24,000.00
a. Components (items)	:	Seed, fertilizer and plant protection chemicals
b. ICAR share	:	Seed, fertilizer and plant protection chemicals
c. Farmers' share		Labour, land preparation
13. Cost of extension activities	:	Rs. 2000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 26,000.00**

FLD - 6

1.Crop	:	**Brinjal**
2. Thematic area	:	Disease management
3. Technology to be demonstrated	:	Management of Phomopsis blight in brinjal
4. Season	:	Kharif
5. Previous crop	:	Okra
6. Farming situation		
a. Rainfed/ Irrigated	:	Both
b. Land situation	:	Upland
c. Soil type	:	Sandy-loam to clay-loam
7. Area (ha)	:	0.5 ha
8. Variety	:	Local
9. Sowing time	:	May, 2008
10.Name of villages where to be implemented	:	Keten, Burdwan
11. No. of demonstration	:	10
12. Demonstration cost	:	Rs. 3000.00
a. Components (items)	:	Seed, fertilizer and plant protection chemicals
b. ICAR share	:	Plant protection chemicals (Pesticide)
c. Farmers' share		Seed, fertilizer
13. Cost of extension activities	:	Rs. 500.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 3500.00**

FLD - 7

1.Crop	:	**Potato**
2. Thematic area	:	Disease management
3. Technology to be demonstrated	:	Integrated approach for late blight management
4. Season	:	Rabi
5. Previous crop	:	Cucurbits
6. Farming situation	:	
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium to upland
c. Soil type	:	Sandy-loam
7. Area (ha)	:	1
8. Variety	:	Kufri Pokhraj
9. Sowing time	:	Oct. – Nov, 2008
10.Name of villages where to be implemented	:	Keten & Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	15
12. Demonstration cost	:	Rs.4600.00
a. Components (items)	:	Seed, fertilizer, plant protection chemicals
b. ICAR share	:	Plant protection chemicals
c. Farmers' share		Seed, fertilizer
13. Cost of extension activities	:	Rs. 2000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 6600.00**

FLD - 8

1.Crop	:	**Fodder (Rice bean)**
2. Thematic area	:	Improved agronomic practices
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	**Summer**
5. Previous crop	:	Sesame/ Nil
6. Farming situation	:	
a. Rainfed/ Irrigated	:	Rain fed
b. Land situation	:	Upland to medium land
c. Soil type	:	Sandy-loam to clay-loam
7. Area (ha)	:	0.2
8. Variety	:	**Energized rice bean (Bundel- 2)**
9. Sowing time	:	June- July, 2008
10.Name of villages where to be implemented	:	Keten, Burdwan
11. No. of demonstration	:	5
12. Demonstration cost	:	Rs. 1000.00
a. Components (items)	:	Seed, bio-fertilizer
b. ICAR share	:	Seed, bio-fertilizer
c. Farmers' share		Manure
13. Cost of extension activities	:	Rs. 500.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 1500.00**

FLD - 9

1. Enterprise	:	**Cattle**
2. Thematic area	:	Nutrition management
3. Technology to be demonstrated	:	Supplementation of region specific mineral mixture for cow
4. Season	:	Year round (2008)
5. System of rearing	:	Semi-intensive
6. Sp./Variety	:	Deshi cow
7.Name of village to be implemented	:	Jagulipara, Burdwan
8. No. of demonstration	:	10
9. Unit size of demonstration	:	1 cow/ demonstration
10. Demonstration cost	:	Rs. 4800.00
a. Components (items)	:	Mineral mixture , feed
b. ICAR share	:	Mineral mixture
c. Farmers' share	:	Feed
11. Cost of extension activities (field day, field broad)	:	Rs. 2200.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 6000.00**

FLD - 10

1. Enterprise	:	**Goat (Bengal Goat)**
2. Thematic area	:	Disease management
3. Technology to be demonstrated	:	Vaccination against Peste des Petits Ruminants (PPR)
4. Season	:	Summer (2008)
5. System of rearing	:	Semi-intensive
6. Sp./Variety	:	Live attenuated PPR vaccine
7. Name of village to be implemented	:	Jagulipara, Burdwan
8. No. of demonstration	:	200 families
9. Unit size of demonstration	:	800 animals
10. Demonstration cost	:	Rs.1600.00
a. Components (items)	:	PPR vaccines , syringe
b. ICAR share	:	PPR vaccine , syringe
c. Farmers' share	:	-
11. Cost of extension activities (field day etc)	:	Rs.1000.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 2600.00**

FLD – 11

1. Enterprise	:	**Fish**
2. Thematic area	:	Species diversification in pond aquaculture
3. Technology to be demonstrated	:	Improved culture practice of minor carp
4. Season	:	Year round (2008)
5. System of rearing	:	Modified extensive
6. Sp./Variety	:	*Labeo bata*
7. Name of village to be implemented	:	Jagulipara, Burdwan
8. No. of demonstration	:	10 ponds
9. Unit size of demonstration	:	0.2 ha / demonstration
10. Demonstration cost	:	Rs. 10000.00
a. Components (items)	:	Seed, feed
b. ICAR share	:	Seed
c. Farmers' share	:	Feed
11. Cost of extension activities (field day, etc.)	:	Rs. 2500.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 12500.00**

Summary

I. FLD on Oilseeds and Pulses

Sl. No.	Crop &Var.*	Season	Farming Situation	Area (ha.)	Demonstration cost (Rs.)
1.	Mustard	Rabi	Irrigated	8.0	40,000.00
2.	Lentil	Rabi	Irrigated	3.0	15,700.00
3.	Sesame	Rabi/ summer	Irrigated	5.0	25,000.00
Total				16.0	**80,700.00**

II. FLD on Other than Oilseeds and Pulses

S. N.	Crop / Enterprise	Subject	Season	Area	Variety	Demonstration cost (Rs.)
1.	Jute	Package demonstration	Kharif	4 ha.	JRO – 524	18,000.00
2.	Paddy	Package demonstration	Kharif/rabi	5 ha	MTU - 7029	26,000.00
3.	Brinjal	Disease management	Kharif	0.5 ha	Local	3500.00
4.	Potato	Disease management	Rabi	1 ha	Kufri Pokhraj	6600.00
5.	Fodder (Rice bean)	Nutrition management	Summer	0.2 ha	Energized rice bean (Bundel 2)	1500.00
6.	Cow	Mineral mixture	Year round	10 animals	Region specific for daily cow	6000.00
7.	Goat	Disease management through Vaccination	Summer	400 goats	PPR (vaccine)	2600.00
8.	Fish	Species diversification in pond aquaculture	Kharif	10 ponds	*Labeo bata*	12500.00
					Total	**76,700.00**

Training Programmes to be conducted during 2008-09

I. Crop Production

a) For practicing farmers and farm women

Month	Title of training	Objective	Duration	Venue	Course facilitator	Target no. of participants						
						SC		ST		Other		Total
						M	F	M	F	M	F	
April, 08	Improved production technology of Jute	To make farmers aware about the improved production practices	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	-	-	20	-	30
May, 08	Weed management of jute	To make farmers aware about weed control technologies of jute	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	-	-	20	-	30
June, 08	Use of fibre extractor in extraction of fibre	To reduce drudgery in retting	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	-	-	20	-	30
June, 08	Need for soil testing and soil test based fertilizer application	To make farmers understand need of soil test based fertilizer application in order to get optimum yield with balanced fertilization	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	-	-	20	-	30
June, 08	Seed treatment and nursery management of *kharif* paddy	Hand-on training for seed treatment against fungal disease and proper nursery management for growing healthy seed crops	2 days	Off-campus	Mr. D. Ghorai (SMS, Ag.)	20	-	10	-	30	-	60
July, 08	Utilization of biofertiliser in kharif rice	To emphasize need of biofertilization and its efficacy in supplementing nutrient requirement	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	5	-	15	-	30

July, 08	Weed control of paddy	To make farmers aware about weed control technologies of paddy	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	5	-	15	-	30
Aug, 08	Integrated nutrient management for enhancement of paddy productivity and better soil health	To make farmers aware about the boons of integrated management in augmenting productivity and maintaining soil health	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	5	-	15	-	30
Sep, 08	Paddy seed production technology	To produce quality seed for themselves	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	5	-	15	-	30
Oct, 08	NADEP compost production	To produce organic manure using own agricultural wastes	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	15	-	-	-	15	-	30
Dec, 08	Improved production technology of mustard	To acquaint farmers with improved cultivation and production technology	2 days	Off-campus	Mr. D. Ghorai (SMS, Ag.)	20	-	10	-	30	-	60
Dec, 08	Improved production technology of lentil	To acquaint farmers with improved cultivation and production technology	1 day	Off-campus	Mr. D. Ghorai (SMS, Ag.)	15	-	-	-	15	-	30
Jan, 09	Improved production technology of sesame	To teach about seed treatment, fertilizer management, pest and disease diagnoses and preventions to get enhanced yield and proper grain quality	2 days	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	10	-	40	-	60
Feb, 09	Pest and disease control of mustard	Te make farmers able to identify pests and diseases of crops	2 days	Off-campus	Mr. D. Ghorai (SMS, Ag.)	20	-	10	-	30	-	60

b) For rural youths

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Sep, 08	Paddy seed production technology	To develop small scale entrepreneurship	1	Off-campus	Mr. D. Ghorai (SMS, Ag.)	10	-	5	-	15	-	30
January, 09	Vermicompost production at farmers level	Scope of utilization of vermicompost and the marketing prospects	1	On campus	D. Ghorai SMS (Agr.)	3	-	7	-	10	-	20

c) For Extension Functionaries

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Nov. '08	Improved fertilizer management in oilseeds and pulses to augment productivity	Providing knowledge about the importance of judicious application of balanced fertilizer for better crop production and improve soil health as well.	1	on campus	D. Ghorai SMS (Agr.)	5	-	-	-	15	-	20
January, 2009	Vermicompost production and its utilization for better soil health	Utility of vermicompost for improving soil health towards the soil sustainability	1	on campus	D. Ghorai SMS (Agr.)	5	-	-	-	15	-	20

II. Horticulture

a) For practicing farmers and farm women

Month	Title of training	Objective	Duration	Venue	Course Facilitator	Target no. of participants						
						SC		ST		Other		Total
						M	F	M	F	M	F	
April, 08	Preparation of organic pesticides and its application	To provide knowledge of indigenous organic-pesticides, procedure of preparation and efficacy	1 day	Off-campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
May, 08	Use of mulch in horticultural crops	To acquaint farmers about the procedure of mulching using different locally available materials to conserve moisture and management of weeds	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
July, 08	Impact and utilization of biofertilizers	To learn the farmers about the specific biofertilizers for selective crops, its application and efficacy	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
Aug, 08	Nursery management in vegetable crops	Farmers are to learn the proper method of seed bed preparation, their management and protection of seedlings from pest and diseases	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	8	2	-	-	10	5	25
Sep, 08	Establishment of fruit orchard	To learn the farmers about the proper layout of orchard with specific varieties of fruits, planting methods and primary care to establish a new orchard	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	8	2	-	-	10	5	25

Oct, 08	Improved production technology of chilli	To acquaint farmers with improved cultivation and production technology of chilli	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
Nov, 08	Improved production technology of potato	To acquaint farmers with improved cultivation and production technology of potato	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
Jan, 09	Identification of major diseases of potato	Provide knowledge to the farmers, so that they can able to identify the common diseases and their specific control	1day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
Feb, 09	Improved production technology of okra	To acquaint farmers about the improved techniques of cultivation of okra	1days	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	15	-	25
March, 09	Management of major pest and diseases of Cucurbits	To identify the pest and diseases and their specific control	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	15	-	25

b) For rural youths

Month	**Course Title**	**Course object**	**Duration (day)**	**Venue**	**Course facilitator**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
October, 08	Improved production technology of gladiolus	Phase 1: Preparation of beds and treatment of corms for sowing	1	On campus	Dr. S. Sarkar SMS (Hort.)	3	-	-	-	7	-	10
Jan, 09	Improved production technology of gladiolus	Phase 2 :Management of plants and harvesting of flowers	1	On campus	Dr. S. Sarkar SMS (Hort.)	3	-	-	-	7	-	10

Jan,09	Improved production technology of gladiolus	Phase 3: Increasing self life of flowers and preparation of flower bouquet	1	On campus	Dr. S. Sarkar SMS (Hort.) & S. Sethy, SMS (Home Sc)	3	-	-	-	7	-	10
March, 09	Improved production technology of gladiolus	Phase 4: Collection of corms, its curing and storing	1	On campus	Dr. S. Sarkar SMS (Hort.)	3	-	-	-	7	-	10

c) For Extension Functionaries

Month	**Course Title**	**Course object**	**Duration (day)**	**Venue**	**Course facilitator**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
August 2008	Seed production techniques of major vegetable crops	Extension personnel will develop knowledge and skill regarding scientific method for maintaining of purity of good varieties and multiplication	1	on campus	Dr. Subrata Sarkar, SMS (Hort)	5	-	-	-	15	-	20

III. Veterinary Science

a) For practicing farmers and farm women

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
April, 08	Techniques of paneer preparation	Farmers will be able to make value added milk products	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	5	5	-	-	20	0	30
May, 08	Feeding practices of Doe	Owner can adopt better feeding of practices.	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	-	10	-	-	8	12	30
June, 08	Care of new born kids	To check mortality and ensuring good health	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	10	20	-	-	-	-	30
July, 08	Care of new born calf	Farmer will develop knowledge and skill regarding care of new born calf	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	10	5	-	-	10	5	30
August, 08	Animal shed disinfection at rainy season	Farmer will develop knowledge and skill regarding cattle health	2	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	10	10	-	-	20	20	60
Sept, 08	Cultivation techniques of rice bean	Farmer will develop knowledge and skill regarding fodder and feed resource improvement	2	On campus	Dr. C. Jana, SMS (A.H.& V.S)	5	5	-	-	5	5	20
October,08	Feeding techniques of mineral mixture for dairy cow	To make a common practice among farmers for better milk yield	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	10	10	-	-	5	5	30

November, 08	Vaccination schedules for duck	To support farmer's knowledge about better preventive care	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	5	10	-	-	10	5	30
December, 08	Home made cattle feed preparation	To support farmer's knowledge regarding feeding practice of cattle	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	10	5	-	-	10	5	30
January, 09	Care of doe during pregnancy	To check mortality and ensuring good health	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	5	10	-	-	10	5	30
March, 09	Preventive measure against PPR	To cover good health and to control infective diseases	1	Off campus	Dr. C. Jana, SMS (A.H.& V.S)	10	4	-	-	11	5	30

b) For rural youths

Month	**Course Title**	**Course object**	**Duration (day)**	**Venue**	**Course facilitator**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
October, 08	Khaki Campbell duck rearing	Rural youths will develop knowledge and skill regarding package practice of Khaki Campbell duck production	3	On campus	Dr. C. Jana, SMS (A.H. & V.S.)	10	10	-	-	10	-	30

c) For Extension Functionaries

Month	**Course Title**	**Course object**	**Duration (day)**	**Venue**	**Course facilitator**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
February 2009	Techniques of biological specimen collection and precaution	Extension personnel will develop knowledge and skill regarding scientific method of sample collection	1	On campus	Dr. C. Jana, SMS (A.H.& V.S)	5				15		20

IV. Fishery Science

a) For practicing farmers and Farm Women

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
April, 08	Preparation and management of nursery pond	To learn preparation and management of nursery ponds	1	Off campus	G. Ziauddin, SMS (Fishery)	6	5			19		30
May, 08	Aquatic weeds and algal blooms in fish ponds, their control and utilization	To learn the impact of aquatic weeds and algal bloom on production of fish and utilization of weeds for increasing fish production	1	Off campus	G. Ziauddin, SMS (Fishery)	7	5			18		30
June , 08	Rearing pond preparation and management.	To learn pond preparation and management practices of rearing ponds	1	Off campus	G. Ziauddin, SMS (Fishery)	5	3			17	5	30
July, 08	Effects of liming in fish ponds	To aware the farmers about the good effects of applying lime and bad effects of not applying lime in ponds	1	Off campus	G. Ziauddin, SMS (Fishery)	6	6			14	4	30
July, 08	Schedule of fertilization and liming in fish culture ponds.	To learn the process and schedule of application of fertilizer and lime simultaneously	1	Off campus	G. Ziauddin, SMS (Fishery)	6	6			14	4	30

August , 08	Polyculture of Indian major carp and fresh water prawn	To learn the management practices of mixed farming of Indian Major carps and Freshwater Prawn	1	Off campus	G. Ziauddin, SMS (Fishery)	9	3			15	3	30
August , 08	Disease management and prophylactic measures in composite fish culture ponds	To learn the symptoms of common diseases of fresh water fishes and their prevention	1	Off campus	G. Ziauddin, SMS (Fishery)	5	3			17	5	30
September, 08	Induced breeding of Indian major carp	To learn about different aspects of induced breeding in Hapa and Bundh breeding	1	Off campus	G. Ziauddin, SMS (Fishery)	6	6			14	4	30
October, 08	Monoculture of freshwater Prawn	To made learn the farmers about the monoculture of prawn in freshwater culture ponds	1	Off campus	G. Ziauddin, SMS (Fishery)	6	6			14	4	30
November, 08	Integrated duck-cum-fish farming in back yard pond	To made learn the farmers about the integrated duck cum fish farming in culture ponds	1	Off campus	G. Ziauddin, SMS (Fishery)	6	6			14	4	30
December, 08	Culture of some freshwater ornamental fishes	To made learn the farmers about the freshwater ornamental fishes in earthen pits/small ponds	1	Off campus	G. Ziauddin, SMS (Fishery)	6	6			14	4	30

b) For rural youth

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
October, 08	Air breathing fish culture	Rural youth will be able to adopt different management practices in air breathing fish culture	1	Off campus	G. Ziauddin, SMS (Fishery)	8	4			14	4	30

c) For Extension Functionaries

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
November 2008	Sustainable aquaculture	Extension personnel will develop knowledge of different threats to inland aquaculture and the remedies	1	on campus	G. Ziauddin, SMS (Fishery)	5				10		15

V. Home Science

a) For practicing farmers and Farm women

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
April 08	Minimization of nutrients loss during cooking food.	Farm women will be able to adopt different nutrient minimization practices while cooking food.	1	Off campus	S.Sethy SMS (Home Sc)	-	10	-	-	-	20	30
May 08	Clean milk production from cattle	To support knowledge of farm women about the different aspects responsible for clean milk production	1	Off campus	S.Sethy SMS (Home Sc)	-	15	-	-	-	15	30
June 08	Preparation of mango squash.	Farm women will be able to adopt preparation method, preservative use and storage practices of the squash.	1	Off campus	S.Sethy SMS (Home Sc)		10				20	30
August 08	Management of nutrition garden.	Farm women will be able to adopt different practices related to the lay out, intercultural operation, manuring and irrigation of nutrition garden.	2	Off campus	S.Sethy SMS (Home Sc)		20				30	50
September 08	Balance diet and RDA of foods for expectant and nursing mothers	To impart knowledge regarding balance diet and Required Dietary Allowances (RDA) of foods for expectant and nursing mothers thereby helping in planning of meals with regard to economy and quality	1	Off campus	S.Sethy SMS (Home Sc)		15				15	30
October 08	Effective storage of	To avoid wastage, reduce pest attack and to provide the	1	Off campus	S.Sethy SMS		15				15	30

	grain, fruits and vegetables.	knowledge about different storage methods of grain, fruits and vegetables.			(Home Sc)							
November 08	Preparation of guava jam and jelly	To empower farm women with adequate knowledge of preparation method, use of preservative, and end point testing..	1	Off campus	S.Sethy SMS (Home Sc)		10				15	25
February 09	Preparation of tomato sauce.	To reduce the wastage and to utilize the tomato for product development in peak season and providing the knowledge about tomato sauce preparation.	1	On campus	S.Sethy SMS (Home Sc)		10				15	25
March 09	Preparation of mixed vegetable pickle	To provide knowledge about the use of preservatives, preparation methods & storage. To empower farm women with adequate knowledge of preparation method, use of preservative & end point testing.	1	Off campus	S.Sethy SMS (Home Sc)		10				20	30

b) For rural youth (Special Skill Programme)

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
July 08	Preparation of jute handicrafts	Empowering farm women with knowledge and skill of preparing jute handicrafts.	7	off campus	S. Sethy, SMS (Home Sc)		70				140	210
Jan 09	Preparation of kantha stitch	Empowering farm women with knowledge and skill of preparing kantha stitch.	7	Off campus	S. Sethy, SMS (Home Sc)		70				140	210

VI. Agril. Extension

a) For practicing farmers, Farm Women, rural youths and extension functionaries

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
April, 08	Leadership development	To develop leadership among farmers to popularize and adoption of new technology to the farmers in a efficient way	1	Off campus	Manoj Kumar, SMS (Ag. Extn.)	5	2			10	3	20
June , 08	Group dynamics and farmers' organization	To study the group behavior of farmers for easy promotion and adoption of improved technology	1	Off campus	Manoj Kumar, SMS (Ag. Extn.)	5	2			10	3	20
August, 08	Formation and management of self help groups	To provide training on formation of SHGs, maintenance and guidance of groups for taking loan from banks and efficiently running the group.	2	Off campus	Manoj Kumar, SMS (Ag. Extn.)	7	3			25	5	40
Nov, 08	WTO and IPR issue	To create awareness about the changing scenario in the context of world trade agreements.	2	Off campus	Manoj Kumar, SMS (Ag. Extn.)	7	3			25	5	40

b) For rural youth

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
July, 08	Operation, maintenance and repairing of power tiller, pumpset and other agricultural implements	To develop the skill of operation, maintaining and repairing of power tiller, pumpset and other agricultural implements as a potential vocational enterprise.	7	On campus	Manoj Kumar, SMS (Ag. Extn.) and other experts	35		14		91		140

c) For Extension Functionaries

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Dec, 08	Capacity building for ICT application	To sensitize the field level extension workers about the increasing role of ICT in improving extension service delivery at farmer's field.	1	On campus	Manoj Kumar, SMS (Ag. Extn.)	7		3		10		20
Feb, 09	WTO and IPR issue	To create awareness about the various opportunities, potential and challenges in post WTO regime.	1	On campus	Manoj Kumar, SMS (Ag. Extn.)	7		3		10		20

VII. Plant Protection

a) For practicing farmers and Farm Women

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
May, 08	Pest management of Jute	The training would help the farmers to aware about insect and disease management at proper time.	2	Off-Campus	S. Garai and S.S. Kundu, (Prog. Asstt).	10	-	-	-	50	-	60
July, 08	Pest management of Kharif rice	The training would help the farmers to aware about insect and disease management at proper time.	3	Off – campus and On-campus	S. Garai and S.S. Kundu, (Prog. Asstt).	24	-	2	-	64	-	90
July, 08	Integrated Pest Management (IPM) in rice	The training would help the farmers to develop the concept of IPM in rice crop.	2	Off – campus and On-campus	S. Garai and S.S. Kundu, (Prog. Asstt).	20	-	-	-	40	-	60
August, 08	Management of Phomopsis blight in brinjal	The training would help the farmers about proper management of this common disease	1	Off campus	S. Garai and S.S. Kundu, (Prog. Asstt).	10	-	-	-	20	-	30
October, 08	Details of pesticides and safety use	The training would help the farmers to get detail conception about the types of	2	Off campus	S. Garai (Prog. Asstt).	20	-	-	--	40	-	60

		pesticides, formulation and safety measures during storage and spraying										
December, 08	Seed treatment of Potato	To learn the procedure of seed treatment for minimizing pest and disease incidence.	2	Off-Campus	S. Garai and S.S. Kundu, (Prog. Asstt).	15	-	-	-	45	-	60

b) For rural youth (Special Skill Programme on Mushroom Cultivation)

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Oct , 08-Feb, 09	Improved Production Technology of Oyster Mushroom Cultivation	Mushroom is very potent as a profitable enterprise for rural youths, school dropouts and farm women. With this rationale KVK wish to popularize mushroom production technology among the villagers.	6	Off and On Campus	S. Garai (Prog Asstt)	45	-	-	-	135	-	180

c) For Extension Functionaries

Month	Course Title	Course object	Duration (day)	Venue	Course facilitator	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Dec, 08	Third generation pesticides: Towards better crop protection	To provide knowledge of the technique, efficacy about third generation pesticides for better crop health	1	On campus	S. Garai (Prog Asstt)	7				13		20

Summary

S. N	Discipline	No. of trainings	Practicing farmer/ farm women		Rural youth		Extension functionaries		Total
			SC/ST	Others	SC/ST	Others	SC/ST	Others	
1	**Crop production**	22	240	300	25	50	10	30	630
2	**Horticulture**	15	100	180	12	28	5	15	340
3	**Veterinary Science**	17	174	176	20	10	5	15	410
4	**Fishery Science**	13	123	207	12	18	5	10	375
5	**Home Science**	24	115	165	140	280	-	-	700
6	**Extension (Ag.)**	15	34	86	49	91	20	20	300
7	**Plant protection**	19	101	256	45	135	7	13	557
Total		**125**	**887**	**1370**	**303**	**612**	**52**	**103**	**3312**

Activities in KVK Farm / Demonstration Units

S.N.	Enterprises	Variety	Season	Area (ha)
1	Seed production of rice	MTU7029, IR 36	Kharif	2.5
2	Seed production of mustard	B - 9	Rabi	1.0
3	Seed production of cucurbits (bottle gourd, pumpkin etc.)	Different varieties	Pre-kharif	0.13
4	Seed production of okra	Arka Anamika	Pre-kharif	0.07
5	Seed corm production of gladiolus	Different varieties	Rabi	0.02
6	Maintenance of progeny orchard	Different fruit crops	Through out the year	0.4
7	Cowpea seed production as fodder	Bundel-2	Rabi	0.05
8	Hybrid Napier fodder production	Pusa giant	Year-round	0.05
9	IMC Fish seed production	Catla, Rohu and Mrigal	Monsoon	3.0 q
10	Fingerling production of Exotic carps	silver carp	Monsoon	0.5 q

Extension Activities

S.N.	Activities	Nos.	Month	Cost involved (Rs.)
1.	Field day	2	Kharif, 2008 & Rabi, 2008-09	30,000.00
2.	Kisan Mela	1	Rabi, 2008-09	1,00,000.00
3.	Kisan Gosthi	1	Kharif, 2008-09	20,000.00
4.	Krishi Vigyan Mandal	1	May, 08	5,000.00
5.	Radio/T.V. show	1	Oct, 08	10,000.00
6.	Film show	4	Aug, Nov, 2008	10,000.00
7.	Farmers' Study Tour	1	March, 09	10,000.00
			Total	**1,85,000.00**

Proposed expenditure for different activities of KVK (2008 - 2009)

S. N.	Activities	Proposed expenditure (Rs.)
1.	Contingencies *i.e.* Stationery, repair of vehicle, POL, telephone other office charges	3,20,000.00
2.	Training Programmes etc.	3,00, 000.00
3.	On-Farm Trials	1,50,000.00
4.	FLD on oilseeds and pulses	80,700.00
5	FLD other than oilseeds and pulses	76,700.00
6.	Extension activities and publication	2,50,000.00
	Total	11,77,400.00

(Dr. F. H. Rahman)

Programme Coordinator