Action Plan
2010-11

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Annual Action Plan
2010 - 2011

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 Barddhaman 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.

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 holding)	42
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 :

Animal population in the district:	
(a) Cattle	**1655904**
i. Cow	671144
ii. Bull & bullock	230828
iii. Young stock	753932
(b) Buffalos	**127539**
(c) Sheep	**140873**
(d) Goat	**127184**
(e) Pig	**120904**
(f) Others :	
Fowl	**3141669**
Duck	**1835094**

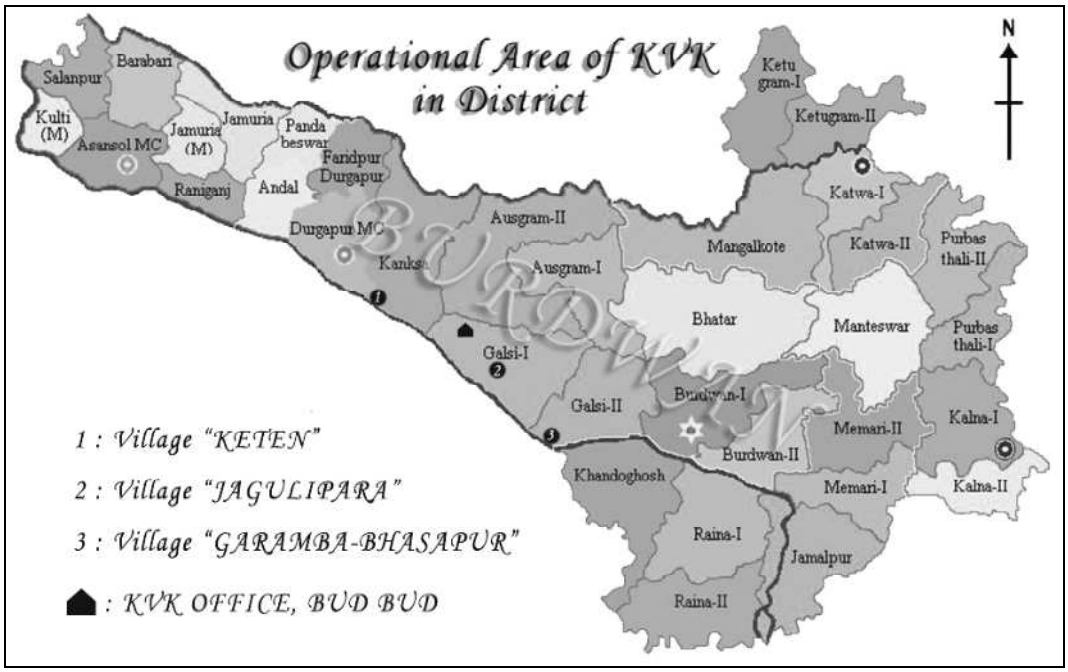
(Source: District statistical handbook, 2007, Bureau of Applied Economics & Statistics, Govt. of West Bengal)

Major problems identified :

Problem area in	Major problems
(a) Crop production	1) Non-availability of quality seed / planting materials 2) Low productivity of major crops 3) Limited water resources for irrigation 4) High cost involvement for major crops
(b) Soil & Water Management	1) Indiscriminate and inappropriate use of chemical fertilizers 2) Low input of organic manures and biofertiliser 3) Improper rainwater harvesting
(c) Animal husbandry	1) Inadequate descriptive/prolific breed of livestock 2) Inadequate health care of livestock 3) Poor feed resources 4) Non- availability of quality fish seed 5) Poor maintenance of fish ponds
(d) Others	1) Lack of credit facilities 2) Very restricted livelihood option 3) Lack of awareness of soil test based fertilizer application 4) Lack of awareness regarding good agronomic/ husbandry practices

Priority thrust areas :

S. N	Thrust area
1	Integration of good agronomic practices for cultivation of field and vegetable crops for vertical agricultural growth
2	Production of quality seeds/planting materials for major agricultural crops like rice, jute, mustard, and vegetable and fruit crops
3	Diversification of land use through cultivation of vegetables and other horticultural crops
4.	Soil health management like organic farming etc.
5.	Livestock productivity improvement and health care
6.	Efficient utilization of water bodies through composite fish culture and improved management practices
7.	Entrepreneurship development for family income generation



ON FARM TRIALS

CROP PRODUCTION

OFT - 1 : (Continuing for 2nd year)

1.	Title	:	**Evaluation of performance of different varieties of jute under rainfed and medium upland situation of Burdwan district**
2.	Problem definition	:	Low productivity of jute due to non use of improved varieties
3.	Production System	:	Rainfed rice based production system
4.	Micro-farming Situation	:	Medium upland
5.	Hypothesis	:	Use of improved varieties will augment productivity
6.	Technologies to be assessed	:	**Farmers' practice**: Village level local varieties **Technology - 1** to be assessed: JRO 524 **Technology - 2** to be assessed: JRO 8432 **Technology - 3** to be assessed: JBO 2003 H **Technology - 4** to be assessed: S 19
7.	Source of technology	:	CRIJAF, Barrackpore
8.	Critical inputs	:	Seeds
9.	Unit size	:	0.20 ha
10.	No. of replication	:	4
11.	Unit cost	:	Rs. 100.00
12.	Total cost	:	Rs. 400.00
13.	Monitoring indicators	:	• Yield attributing characters • Yield • Benefit : Cost ratio

OFT- 2 :

1.	Title	:	**Assessment of weed control and water management technologies in *kharif* rice under System of Rice Intensification (SRI) in medium upland situation of Burdwan district**
2.	Problem definition	:	It is observed that a gradual decline in productivity of rice
3.	Production System	:	Irrigated rice production system
4.	Micro-farming Situation	:	Medium upland
5.	Hypothesis	:	Productivity of rice would be better under SRI due to early transplantation and soil aeration.
6.	Technologies to be assessed	:	**Farmers' practice**: Conventional rice cultivation **Technology - 1 to be assessed:** Rice cultivation in alternate wetting and drying + chemical weeding (Pyrazosulfuron ethyl)* **Technology - 2 to be assessed:** Rice cultivation in alternate wetting and drying + mechanical weeding* **Technology - 3 to be assessed:** Rice cultivation with conventional water management + chemical weeding (Pyrazosulfuron ethyl)* **Technology - 4 to be assessed:** Rice cultivation with conventional water management + mechanical weeding*
7.	Source of technology	:	ANGRAU, Hyderabad
8.	Critical inputs	:	Paddy weeder, herbicide
9.	Unit size	:	0.05 ha
10.	No. of replication	:	4
11.	Unit cost	:	Rs. 4800.00
12.	Total cost	:	Rs. 9600.00
13.	Monitoring indicators	:	• Yield attributing characters • Yield • Economics

** Transplanting will be done at 10-12 days old seedling with spacing 25 cm x 25 cm*

HORTICULTURE

OFT - 3 : (Continuing for 2nd year)

1.	Title	:	**Evaluation of different varieties of tomato in Burdwan**
2.	Problem definition	:	Low yield of tomato is one of the common problems to the farmers due to use of local varieties.
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°C.
5.	Hypothesis	:	Cultivation of improved varieties will fetch higher return.
6.	Technologies to be assessed	:	**Farmers' practice**: local variety **Technology - 1** to be assessed:. *Pusa Ruby* **Technology - 2** to be assessed**:** *Arka Vikas*
7.	Source of technology	:	B.C.K.V., Mohanpur
8.	Critical inputs	:	Seedlings of tomato cultivars
9.	Unit size	:	300 sq. m.
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1000.00
12.	Total cost	:	Rs. 7000.00
13.	Monitoring indicators	:	• Yield • Benefit: Cost ratio

VETERINARY SCIENCE

OFT- 4 :

1.	Title	:	**Evaluation of performance of supplemented feeding in lactating cross bred cow in Burdwan district**
2.	Problem definition	:	Poor milk yield in deshi cow due to imbalanced feed supplementation.
3.	Production System	:	Cattle based under semi intensive system
4.	Micro farming system	:	House hold farming with 2-4 deshi cattle/cross bred 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 (1-2 kg), soaked straw (5-6 kg) and grazing **Technology 1 to be assessed:** Farmers' practice + soaked oil cake (0.75 kg) (locally available) **Technology 2 to be assessed:** Farmers' practice + concentrate home made feed * (1.5 kg)
7.	Source of technology	:	IVRI, Izatnagar
8.	Critical inputs	:	Formulated feed and oil cake
9.	Unit size	:	One (1) cross bred lactating cow in each treatment
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1600.00
12.	Total cost	:	Rs. 11200.00
13.	Monitoring indicators	:	• Milk Yield • Lactation period • Calving interval

* Home made feed : A ration will be formulated using locally available feed ingredients like maize-30 parts, mustard /Mustard oil cake-30 parts, rice husk-35 parts, rice bran- 2 parts, common salt-1 part and mineral mixture- 2 parts

FISHERY SCIENCE

OFT - 5 : (Continuing for 2nd year)

1.	Title	:	**Effect of various stocking densities of IMC on fish productivity under pond ecosystem of Burdwan**
2.	Problem definition	:	Poor fish productivity in domestic small and medium sized ponds is due to improper number of stocked fishes.
3.	Production System	:	Extensive fish based production system
4.	Micro-farming Situation	:	Medium or small sized domestic water bodies
5.	Hypothesis	:	Release of proper number of fishes would increase the productivity of fishponds
6.	Technologies to be assessed	:	**Farmers' practice :** Stocking density 7500 nos. fish/ha **Technology - 1 to be assessed:** Stocking density 10000 nos. fish/ha **Technology - 2 to be assessed:** Stocking density 15000 nos. fish/ha
7.	Source of technology	:	IIT, Kharagpur
8.	Critical inputs	:	Fish seed
9.	Unit size	:	0.066 ha
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1800.00
12.	Total cost	:	Rs. 12600.00
13.	Monitoring indicators	:	• Growth rate • Yield

HOME SCIENCE

OFT - 6 : (Continuing for 2nd year)

1.	Title	:	**Evaluation of improved sickles for harvesting of paddy to minimize drudgery of farm women**
2.	Problem definition	:	Low efficiency of farm women during harvesting paddy due to more drudgery
3.	Production System	:	Rainfed rice based production system
4.	Micro farming system	:	Medium upland to lowland
5.	Hypothesis	:	Improved sickles can reduce the drudgery of farm women while harvesting paddy
6.	Technologies to be assessed	:	**Farmers' practice :** Traditional sickle **Technology - 1 to be assessed:** Naveen sickle **Technology - 2 to be assessed:** Modified traditional sickle
7.	Source of technology	:	CIAE, Bhopal
8.	Critical inputs	:	Different types of sickles
9.	Unit size	:	10 farm women for one treatment
10.	No. of replication	:	7
11.	Unit cost	:	Rs 600
12.	Total cost	:	Rs 4200.00
13.	Monitoring indicators	:	• Working heart rate (beats/min) • Increase heart rate over rest (beats/min) • Increase in heart beats/m^2 of area harvested • Out put (m^2/hr)

OFT -7 :

1.	Title	:	**Effect of post harvest operations of vegetables on income generation of farming community**
2.	Problem definition	:	Low income generation from vegetables due to lack of post harvest operations
3.	Production System	:	Vegetable based production system
4.	Micro farming system	:	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	:	Year round vegetable production with post harvest operations shows a way of income generation to the farming community
6.	Technologies to be assessed	:	**Farmers' practice :** Marketing of vegetables without any post harvest operation **Technology - 1 to be assessed:** Marketing of vegetables after cleaning and Pre cooling **Technology - 2 to be assessed:** Marketing of vegetables with cleaning, Pre cooling and grading
7.	Source of technology	:	NRC for Women in Agriculture, Bhubaneswar
8.	Critical inputs	:	Cleaning tank, plastic crates and weighing machine
9.	Unit size	:	0.15 ha
10.	No. of replication	:	7
11.	Unit cost	:	Rs 700.00
12.	Total cost	:	Rs 4900.00
13.	Monitoring indicators	:	• Monetary gain • Post harvest loss minimizations

Agricultural Extension

OFT-8

1	Title	**Assessing effective extension strategy for transfer of system of rice intensification technology in the operational area of KVK Burdwan**
2	Problem Definition	There is a wide yield gap in the rice crops at the research station and farmers' field.
3	Production system	Rice based production system
4	Micro-farming situation	-
5	Hypothesis	Heterogeneous personal antecedents of clientele system requires a suitable location specific extension strategy for higher perception among farmers' about new innovation
6	Technologies to be assessed	**Farmers' practices**: (Informal method of technology diffusion like through neighbors, input dealers etc.) **Technology 1 to be assessed:** technology transfer through trainings and field visits. **Technology 2 to be assessed :** technology transfer through FLDs, trainings etc.
7	Source of technology	Division of agricultural Extension, ICAR and BCKV
8	No. of replication	07
9	Critical inputs	Training material, seed. Fertilizers, pesticides etc.
10	Unit size	20 farmers/group
11	Unit cost	Rs. 5,000.00
12	Total cost involved	Rs. 15,000.00
13	Monitoring indicator	Gain in knowledge, retention of knowledge, change in attitude, skill and adoption of technology.

Summary

S.N.	Discipline /thematic area	OFT No.	Unit size	Cost (Rs.)
1	Crop Production (varietals evaluation)	OFT-1	0.20	400.00
2	Crop production (Resource conservation technology)	OFT-2	0.05 ha	9600.00
3	Horticulture (Varietal evaluation)	OFT-3	0.03 ha	7000.00
4	Veterinary Science (Feed & fodder)	OFT-4	1 cow	11200.00
5.	Fishery Science (Production & management)	OFT-5	0.066 ha	12600.00
6.	Home Science (Drugery reduction)	OFT-6	10 farm women	4200.00
7.	Home Science (Post harvest technology)	OFT-7	0.15 ha	4900.00
8.	Extension (Technology transfer)	OFT-8	20 farmers/group	7000.00
Total				**56900.00**

FRONT LINE DEMONSTRATION

I. Front Line Demonstration on Oilseeds and Pulses

FLD – 1 (Oilseeds) :

1. Crop	:	**Mustard**
2. Thematic area	:	Improved production practice
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Rabi 2011
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)	:	6
8. Variety	:	Newly released varieties
9. Sowing time	:	Oct.-Nov., 2010
10. Name of villages where to be implemented	:	Jagulipara and Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	40
12. Demonstration cost	:	Rs. 27000.00
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. 3000.00
14. Total cost of demonstration (ICAR share)	:	Rs. 30000.00

FLD – 2 (Oilseeds) :

1.Crop	:	**Sesame**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Pre-kharif 2011
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)	:	4
8. Variety	:	Newly released varieties
9. Sowing time	:	March, 2011
10. Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	25
12. Demonstration cost	:	Rs. 18000.00
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.2000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 20000.00**

FLD – 3 (Oilseeds) :

1.Crop	:	**Groundnut**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Pre-kharif 2011
5. Previous crop	:	Mustard
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium to up land
c. Soil type	:	Sandy-loam
7. Area (ha)	:	2
8. Variety	:	Newly released varieties
9. Sowing time	:	March, 2011
10. Name of villages where to be implemented	:	Keten, Burdwan
11. No. of demonstration	:	15
12. Demonstration cost	:	Rs. 9000.00
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.1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 10000.00**

FLD – 4 (Pulses) :

1. Crop	:	**Lentil**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Rabi 2011
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)	:	**2**
8. Variety	:	HYV and newly released
9. Sowing time	:	November, 2010
10. Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	20
12. Demonstration cost	:	Rs. 9000.00
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.1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 10000.00**

FLD – 5 (Pulses) :

1. Crop	:	**Green gram**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Summer 2011
5. Previous crop	:	Mustard
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium to up land
c. Soil type	:	Sandy-loam
7. Area (ha)	:	**2**
8. Variety	:	HYV and newly released
9. Sowing time	:	March, 2011
10. Name of villages where to be implemented	:	Keten, Burdwan
11. No. of demonstration	:	15
12. Demonstration cost	:	Rs. 9000.00
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.1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 10000.00**

FLD – 6 (Pulses) :

1. Crop	:	**Chick pea**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Rabi 2011
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)	:	**2**
8. Variety	:	HYV and newly released
9. Sowing time	:	November, 2010
10. Name of villages where to be implemented	:	Keten, Burdwan
11. No. of demonstration	:	15
12. Demonstration cost	:	Rs. 9000.00
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.1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 10000.00**

II. Front Line Demonstration on Other than Oilseeds and Pulses

FLD – 7:

1. Crop	:	**Jute**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Improved cultivation practice
4. Season	:	Pre kharif 2011
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	:	Newly released varieties
9. Sowing time	:	March, 2011
10. Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	30
12. Demonstration cost	:	Rs.18000.00
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. 2000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 20,000.00**

FLD – 8 :

1.Crop	:	**Brinjal**
2. Thematic area	:	Insect management
3. Technology to be demonstrated	:	Management of fruit and shoot borer in brinjal
4. Season	:	Kharif
5. Previous crop	:	Bitter gourd
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	:	June , 2010
10.Name of villages where to be implemented	:	Garamba- Bhasapur, Burdwan
11. No. of demonstration	:	10
12. Demonstration cost	:	Rs. 3500.00
a. Components (items)	:	Seed, fertilizer and pheromone traps & Lures
b. ICAR share	:	Pheromone traps & Lures
c. Farmers' share		Seed, fertilizer
13. Cost of extension activities	:	Rs. 500.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 4000.00**

FLD – 9 :

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, 2010
10.Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	15
12. Demonstration cost	:	Rs.5000.00
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. 1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 6000.00**

FLD – 10 :

1. Crop	:	**Rice bean (fodder)**
2. Thematic area	:	Improved agronomic practices
3. Technology to be demonstrated	:	Package demonstration
4. Season	:	Kharif
5. Previous crop	:	Sesame/ Nil
6. Farming situation	:	
a. Rainfed/ Irrigated	:	Rain fed
b. Land situation	:	medium to upland land
c. Soil type	:	Sandy-loam to clay-loam
7. Area (ha)	:	0.2
8. Variety	:	**Rice bean (Bidhan- 1)**
9. Sowing time	:	July , 2010
10.Name of villages where to be implemented	:	Jagulipara, Burdwan
11. No. of demonstration	:	5
12. Demonstration cost	:	Rs. 2000.00
a. Components (items)	:	Seed, bio-fertilizer , chemical fertilizer
b. ICAR share	:	Seed, Bio-fertilizer , chemical fertilizer
c. Farmers' share		Manure
13. Cost of extension activities	:	Rs. 400.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 2400.00**

FLD – 11 :.

1. Crop / Enterprise	:	**Crop ,fish and livestock**
2. Thematic area	:	Integrated farming approach
3. Technology to be demonstrated	:	Component
4. Season	:	Year round
5. Previous crop	:	Banana/ Nil
6. Farming situation	:	
a. Rainfed/ Irrigated	:	Rain fed
b. Land situation	:	Upland land
c. Soil type	:	Sandy-loam to clay-loam
7. Area (ha)	:	1 ha
8. Species/ variety	:	Banana (G-9), fish (IMC) & Poultry (RIR)
9. Implementing time	:	July- August , 2010
10.Name of villages where to be implemented	:	Jagulipara, Burdwan
11. No. of demonstration	:	3
12. Demonstration cost	:	Rs. 6000.00
a. Components (items)	:	Tissue culture banana, Fish and chicks
b. ICAR share	:	Tissue culture banana, Fish and chicks
c. Farmers' share		Manure, feed
13. Cost of extension activities	:	Rs. 1000.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 7000.00**

FLD – 12 :

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 (2010)
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. 5000.00
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. 500.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 5500.00**

FLD- 13

1. Enterprise	:	**Goat**
2. Thematic area	:	Nutrition management
3. Technology to be demonstrated	:	Supplementation of home made feed
4. Season	:	Year round (2010)
5. System of rearing	:	Semi-intensive
6. Sp./Variety	:	Bengal Goat
7.Name of village to be implemented	:	Jagulipara, Burdwan
8. No. of demonstration	:	10
9. Unit size of demonstration	:	1 Pregnant doe/ demonstration
10. Demonstration cost	:	Rs. 2000.00
a. Components (items)	:	Medicine and feed
b. ICAR share	:	Home made feed
c. Farmers' share	:	Medicine
11. Cost of extension activities (field day, field broad)	:	Rs. 500.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 2500.00**

FLD – 14:

1. Enterprise	:	**Fish**
2. Thematic area	:	Species diversification in pond aquaculture
3. Technology to be demonstrated	:	Improved culture practice of paku
4. Season	:	Year round (2010)
5. System of rearing	:	Modified extensive
6. Sp./Variety	:	*Piaractus brachypomus*
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. 12000.00
a. Components (items)	:	Seed, feed
b. ICAR share	:	Seed
c. Farmers' share	:	Feed
11. Cost of extension activities	:	Rs. 1500.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 13,500.00**

FLD – 15 :

1. Enterprise	:	**Ornamental Fish**
2. Thematic area	:	Species diversification
3. Technology to be demonstrated	:	Improved methods of ornamental fish rearing unit
4. Season	:	Year round (2010)
5. System of rearing	:	Modified extensive
6. Sp./Variety	:	*Carassius auratus, Pterophyllum sp.*
7. Name of village to be implemented	:	Jagulipara, Burdwan
8. No. of demonstration	:	10 units
9. Unit size of demonstration	:	30'X12'X12' / demonstration
10. Demonstration cost	:	Rs. 13500.00
a. Components (items)	:	Aquarium unit, fish seed, feed
b. ICAR share	:	Aquarium unit, seed
c. Farmers' share	:	Feed
11. Cost of extension activities	:	Rs. 1500.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 15,000.00**

FLD-16:

1. Enterprise	:	**Fish**
2. Thematic area	:	Nutrition management
3. Technology to be demonstrated	:	Feeding techniques
4. Season	:	Year round (2010)
5. System of rearing	:	Extensive fish based production system
6. Sp./Variety	:	*IMC*
7. Name of village to be implemented	:	Jagulipara, Burdwan
8. No. of demonstration	:	5
9. Unit size of demonstration	:	0.66 ha
10. Demonstration cost	:	Rs. 10500.00
a. Components (items)	:	Fish seed& feed
b. ICAR share	:	Fish seed& feed
c. Farmers' share	:	Mustard Oil Cake, labour
11. Cost of extension activities	:	Rs. 1500.00
12. Total cost of demonstration (ICAR share)	:	**Rs. 12,000.00**

Summary

I. FLD on Oilseeds and Pulses

S. N.	Crop &Var.*	Season	Farming Situation	Area (ha.)	Demonstration cost (Rs.)
1.	Mustard	Rabi	Irrigated	6.0	30,000.00
2.	Sesame	Summer	Irrigated	4 .0	20000.00
3.	Ground nut	Summer	Irrigated	2 .0	10000.00
4.	Lentil	Rabi	Irrigated	2.0	10,000.00
5.	Green Gram	Rabi	Irrigated	2.0	10000.00
6.	Chick pea	Rabi	Irrigated	2.0	10000.00
Total				18.0	**90,000.00**

II. FLD on Other than Oilseeds and Pulses

S. N.	Crop / Enterprise	Subject	Season	Area	Variety	Demonstration cost (Rs.)
1.	Jute	Improved management practices	Pre kharif	4ha.	New variety	20,000.00
2.	Brinjal	Disease management	Kharif	0.5 ha	Local	4,000.00
3.	Potato	Disease management	Rabi	1 ha	Kufri Pokhraj	4,500.00
4.	Rice bean (as fodder)	Improved management practices	Kharif	0.2 ha	Bidhan-1	2,400.00
5.	Crop-fish-livestock	Integrated farming system	Year round	1 ha	G-9, IMC, RIR	7000.00
6.	Cattle	Mineral mixture	Year round	10 cow	Region specific for deshi cow	5,500.00
7.	Goat	Supplemented feeding	Year round	10 does	Bengal Goat	2500.00
7.	Fish	Species diversification in pond aquaculture	Year round	10 ponds	*Pungasius pungasius*	13,500.00
8.	Ornamental fish	Species diversification	Year round	10 units	*Carassius auratus, Pterophyllum sp*	15000.00
9.	Fish	Feed management	Year round	0.66 ha	*IMC*	12000.00
					Total	**86,400.00**

TRAINING PROGRAMMES TO BE CONDUCTED DURING 2010-2011

I. Crop Production

[Course facilitator: Mr. D. Ghorai (SMS, Ag.)]

a) For practicing farmers and farm women

Thematic area	Month	Title of training	Objective	Duration [day (s)]	Venue	Target no. of participants						
						SC		ST		Other		Total
						M	F	M	F	M	F	
Crop diversification	April, 2010	Improved production technology of Jute	To make farmers aware about the improved production practices	1	Off-campus	10	-	-	-	20	-	30
Water management	May, 2010	Rice cultivation through SRI	To make farmers aware about the system	2	off campus	20	-	-	-	40	-	60
Soil fertility management	June, 2010	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	Off-campus	10	-	-	-	20	-	30
Nursery management	June, 2010	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	Off-campus	20	-	10	-	30	-	60
Water management	June, 2010	Rice cultivation through SRI	To make farmers aware about the system	1	Off campus	10	-	-	-	20	-	30
Post Harvest Technology	July, 2010	Use of fibre extractor in extraction of	To reduce drudgery in retting	1	Off-campus	10	-	-	-	20	-	30

		fibre										
Weed management	July, 2010	Weed control of paddy	To make farmers aware about weed control technologies of paddy	1	Off-campus	10	-	5	-	15	-	30
Integrated Nutrient Management	Aug, 2010	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	Off-campus	10	-	5	-	15	-	30
Seed production	Sep, 2010	Paddy seed production technology	To produce quality seed for themselves	1	Off-campus	10	-	5	-	15	-	30
Production of organic inputs	Oct, 2010	NADEP compost production	To produce organic manure using own agricultural wastes	1	Off-campus	15	-	-	-	15	-	30
Integrated Crop Management	Dec, 2010	Improved fertilizer management in mustard	To acquaint farmers with improved cultivation and production technology	2	Off-campus	20	-	10	-	30	-	60
Integrated Crop Management	Dec, 2010	Improved production technology of lentil	To acquaint farmers with improved cultivation and production technology	1	Off-campus	15	-	-	-	15	-	30
Integrated Crop Management	Jan, 2011	Improved production technology of sesame & ground nut	To teach about seed treatment, fertilizer management, pest and disease diagnosis & its prevention for enhancing	2	Off-campus	10	-	10	-	40	-	60

			yield & quality of grain									

b) For rural youths

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Seed production	Sep, 2010	Paddy seed production technology	To develop small scale entrepreneurship	1	Off-campus	10	-	5	-	15	-	30
Production of organic inputs	January, 2011	Vermicompost production at farmers level	Scope of utilization of vermicompost and the marketing prospects	1	Off campus	3	-	7	-	10	-	20

c) For Extension Functionaries

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Productivity enhancement in field crops	June, 2010	Rice cultivation through SRI	To make extension personnel abreast with the technology	1	On campus	10	-	-	-	20	-	30
Integrated Nutrient management	November 2010	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	10				15		25
Production of organic	January, 2011	Vermicompost production &	Utility of vermicompost for	1	On campus	10				15		25

inputs		its utilization for soil health	improving soil health towards the soil sustainability									

II. Horticulture

[Course Facilitator : Dr. S. Sarkar, SMS (Hort.)]

a) For practicing farmers and farm women

Thematic area	Month	Title of training	Objective	Duration [day (s)]	Venue	Target no. of participants						
						SC		ST		Other		Total
						M	F	M	F	M	F	
Bio-pesticides production	April, 2010	Preparation of organic pesticides and its application	To provide knowledge of indigenous organic-pesticides, procedure of preparation and efficacy	1	Off-campus	10	-	-	-	20	-	30
Production of low volume & high value crops	May, 2010	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	Off campus	10	-	-	-	20	-	30
Bio-fertilizer production	July, 2010	Impact and utilization of biofertilizers	To learn the farmers about the specific biofertilizers for selective crops, its application and efficacy	1	Off campus	10	-	-	-	20	-	30
Nursery raising	Aug, 2010	Nursery management in vegetable crops	Farmers are to learn the proper method of seed bed preparation, their management and	1	Off campus	8	2	-	-	10	5	25

			protection of seedlings from pest and diseases									
Cultivation of Fruit	Sep, 2010	Improved cultivation of tissue culture banana	To learn the farmers about the proper techniques of banana cultivation	1	Off campus	8	2	-	-	10	5	25
Production of low volume and high value crops	Oct, 2010	Improved production technology of tomato	To acquaint farmers with improved cultivation and production technology of tomato	1	Off campus	10	-	-	-	20	-	30
Production and Management technology	Nov, 2010	Improved production technology of potato	To acquaint farmers with improved cultivation and production technology of potato	1	Off campus	10	-	-	-	20	-	30
Production and Management technology	Dec, 2010	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	1	Off campus	10	-	-	-	20	-	30
Cultivation of summer veg.	Feb,2011	Improved production technology of okra	To acquaint farmers about the improved techniques of cultivation of okra	1	Off campus	10	-	-	-	15	-	25
Cultivation of summer	March, 2011	Management of major pest and diseases of	To identify the pest and diseases and their specific control	1	Off campus	10	-	-	-	15	-	25

veg.		Cucurbits										

b) For rural youths

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Seed production	October, 2010	Seed production techniques of major vegetable crops	Phase 1: Preparation of beds and nursery raising	1	On campus	3	-	-	-	7	-	10
Seed production	Dec, 2010	Seed production techniques of major vegetable crops	Phase 2 :Management of crops ,field inspection and rouging	1	On campus	3	-	-	-	7	-	10
Seed production	Feb,2011	Seed production techniques of major vegetable crops	Phase 3: Post harvest operations and storage	1	On campus	3	-	-	-	7	-	10

c) For Extension Functionaries

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Bio-pesticides production	August 2010	Preparation of organic pesticides and its application	To provide knowledge of indigenous organic-pesticides, procedure of preparation and efficacy	1	on campus	10				15		25

III. Livestock Production and Management

[Course facilitator : Dr. C. Jana, SMS (A.H.& V.S)]

a) For practicing farmers and farm women

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Feed management	April, 10	Feeding practices of goat	Owner can adopt better feeding of practices.	1	Off campus	-	10	-	-	8	12	30
Dairy Management	June, 10	Care of new born kids	To check mortality and ensuring good health	1	Off campus	10	20	-	-	-	-	30
Dairy Management	July, 10	Care of new born calf	Farmer will develop knowledge and skill regarding care of new born calf	1	Off campus	10	5	-	-	10	5	30
Disease management	August, 10	Animal shed disinfection	Farmer will develop knowledge and skill regarding cattle health	1	Off campus	10	--	-	-	10	10	30
Production of livestock feed and fodder	Sept, 10	Cultivation techniques of rice bean	Farmer will develop knowledge and skill regarding fodder and feed resource improvement	2	On campus	5	5	-	-	5	5	20
Feed management	November, 10	Feeding techniques of mineral mixture for dairy cow	To make a common practice among farmers for better milk yield	2	Off campus	10	10	-	-	25	15	60

Production of livestock feed and fodder	December, 10	Home made cattle feed preparation	To support farmer's knowledge regarding feeding practice of cattle	1	Off campus	10	5	-	-	10	5	30
Dairy Management	January, 11	Care of doe during pregnancy	To check mortality and ensuring good health	1	Off campus	5	10	-	-	10	5	30

b) For rural youths

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Poultry Production	October, 10	Poultry rearing	Rural youths will develop knowledge and skill regarding package practice of poultry production	3	On campus	10	10	-	-	10	-	30

c) For Extension Functionaries

Thematic area	Month	Course Title	Course object	Duration [day (s)])	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Management in farm animals	March 2011	Immunization schedule for animals	Extension personnel will develop knowledge and skill regarding new vaccines and immunization programme	1	On campus	10				20		30

IV. Fishery Science

[Course facilitator : Mr. G. Ziauddin, SMS (Fishery)]

a) For practicing farmers and Farm Women

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Carp fry and fingerling rearing	April, 2010	Preparation and management of nursery pond	To learn preparation and management of nursery ponds	1	Off campus	6	5			19		30
Composite fish culture	May, 2010	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	7	5			18		30
Carp fry and fingerling rearing	June, 2010	Rearing pond preparation and management.	To learn pond preparation and management practices of rearing ponds	1	Off campus	5	3			17	5	30
Carp breeding and hatchery management	July, 2010	Induced breeding of Indian major carp	To learn about different aspects of induced breeding in Hapa and Bundh breeding	1	On campus	6	6			14	4	30
Composite fish culture	July, 2010	Schedule of fertilization and liming in fish culture ponds.	To learn the process and schedule of application of fertilizer and lime simultaneously	1	On campus	6	6			14	4	30

Composite fish culture	August , 2010	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	5	3			17	5	30
Composite fish culture	Septemb er, 2010	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	6	6			14	4	30
Hatchery management and culture of freshwater prawn	October, 2010	Monoculture of freshwater Prawn	To made learn the farmers about the monoculture of prawn in freshwater culture ponds	1	Off campus	6	6			14	4	30
Integrated fish farming	Novemb er, 2010	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	6	6			14	4	30
Breeding and culture of ornamental fishes	Decemb er, 2010	Culture of some freshwater ornamental fishes	To made learn the farmers about the freshwater ornamental fishes in earthen pits/small ponds	1	Off campus	6	6			14	4	30
Hatchery management and culture of freshwater prawn	January, 2011	Polyculture of Indian major carp and minor carp	To learn the management practices of mixed farming of Indian Major carps and minor carp	1	Off campus	9	3			15	3	30

b) For rural youth

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Others (cat fish farming)	October, 2010	Air breathing fish culture	Rural youth will be able to adopt different management practices in air breathing fish culture	1	Off campus	8	4			14	4	30

c) For Extension Functionaries

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Other (Sustainable aquaculture)	November 2010	Inland aquaculture	Extension personnel will develop knowledge of inland aquaculture and the remedies	1	on campus	10				10		20

V. Home Science

[Course facilitator: Ms. Sujata Sethy, SMS (Home Sc)]

a) For practicing farmers and Farm women

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Design and development of low/minimum cost diet	April 2010	Design and development of low cost nutritious diet	To provide knowledge about the design and development of low cost nutritious diet.	1	Off campus	-	10	-	5	-	10	25
Women and child care	May 2010	Weaning food for infant of age group 6-12 months	Farm women will be able to adopt knowledge and skill regarding preparation of weaning food	1	Off campus	-	7	-	3	-	10	20
Value addition	June 2010	Value addition of locally available fruits	Farm women will be able to adopt preparation method, preservative use and storage practices of different prepared products of fruit.	1	On campus		5		5		10	20
Design and development for high nutrient efficiency diet	August, 2010	Design and development for high nutrient efficiency diet	To provide knowledge about the design and development of high nutrient efficiency diet.	1	Off campus		7		3		10	20
Household food security	September 2010	Management of nutritional	Farm women will be able to adopt different practices	1	Off campus		12		3		10	25

by kitchen gardening and nutrition gardening		garden.	related to the lay out, intercultural operation, manuring and irrigation of nutrition garden.									
Income generation activities for empowerment of rural Women	October 2010	Income generation of rural women through spice processing.	To empower farm women with adequate knowledge of spice processing to add the family income.	1	Off campus		10		5		10	25
Location specific drudgery reduction technologies	December 2010	Use of drudgery reduction tools in paddy harvesting	Farm women will be able to adopt different practices related to drudgery reduction.	1	Off campus		10		3		12	25
Value addition	February 2011	Post harvest processing of vegetables.	To reduce the wastage and to utilize the vegetables for product development in peak season.	1	On campus		8		2		15	25

b) For rural youth (Special Skill Programme)

Thematic area	**Month**	**Course Title**	**Course object**	**Duration [day (s)]**	**Venue**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
Tailoring and Stitching	July 2010	Tailoring and stitching	Empowering rural youth with knowledge and skill of tailoring	7	On campus		70		35		70	175
Rural Crafts	Jan 2011	Jute handicrafts preparation for	Empowering farm women with knowledge and skill of	7	Off campus		56		14		105	175

		Self employment	preparing jute handicrafts.									

c) For Extension Functionaries

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Gender mainstreaming through SHGs	Nov, 2010	Gender mainstreaming through SHGs	Empowerment of farm women though Self Help Groups	1	On campus	10				15		25

VI. Agril. Extension

[Course facilitator : Dr. Manoj Kumar, SMS (Ag. Extn.)]

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

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Leadership development	April, 2010	Leadership development	To develop leadership among farmers to popularize and adoption of new technology to the farmers in a efficient way	1	Off campus	5	2			10	3	20
Mobilization of social capital	June, 2010	Mobilization of social capital	To make better utilization of social resources for sustainable agriculture	2	Off campus	5	2			10	3	20

Water management	August, 2010	Water management through micro irrigation	To make aware the farmers about efficient use of water	2	On campus	7	3			25	5	40
WTO and IPR issue	Nov, 2010	WTO and IPR issue	To create awareness about the changing scenario in the context of world trade agreements.	2	Off campus	7	3			25	5	40
Group dynamics	Jan , 2011	Group dynamics and farmers' organization	To study the group behavior of farmers for easy promotion and adoption of improved technology	1	Off campus	5	2			10	3	20

b) For rural youth

Thematic area	**Month**	**Course Title**	**Course object**	**Duration [day (s)]**	**Venue**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
Capacity building for ICT application	May, 2010	ICT application in agriculture	To sensitize the farmers about the increasing role of ICT at farmer's field.	5	On campus	35		14		91		140
Repair and maintenance of farm machinery and implements	July, 2010	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.	5	On campus	35		14		91		140

c) For Extension Functionaries

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Formation and management of SHGs	Aug, 2010	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.	1	On campus	7	3			15	5	30
Information networking among farmers	Feb, 2011	Role of information networking among farmers	To develop strong network among farmers for speedy transfer of technology	1	On campus	7		3		10		20
Gender main streaming through SHG	Feb, 2011	Gender main streaming through SHG	To eliminate the gender discrimination between farmers and farm women	1	On campus	7		3		10		20

VII. Plant Protection

[Course facilitators : Mr. S. Garai (Prog. Asstt) and Mr. S.S. Kundu, (Farm Manager)]

a) For practicing farmers and Farm Women

Thematic area	Month	Course Title	Course object	Duration [day (s)]	Venue	No of participants						Grand Total
						SC		ST		Others		
						M	W	M	W	M	W	
Integrated Pest Management	July, 2010	Management of fruit & shoot borer of brinjal	The training would help the farmers about proper management of this insect through IPM measures	1	Off campus	10	-	-	-	20	-	30

Integrated Pest Management	July, 2010	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	20	-	-	-	40	-	60
Bio-control of pests and diseases	October, 2010	Pest Management through Bio-pesticides	The training would help the farmers to get detail conception about these eco-friendly pesticides.	1	Off –campus	10	-	-	--	20	-	30
Pest Management	Decemb er, 2010	Pest Management in Potato	The training would help the farmers to learn the proper management for insect & disease attack.	2	Off-Campus	15	-	-	-	45	-	60
Pest Management	Decemb er, 2010	Pest Management in Mustard	The training would help the farmers to get detail conception different types of insect & disease attack and their proper management.	2	Off –campus and On-campus	20				40		60

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

Thematic area	**Month**	**Course Title**	**Course object**	**Duration [day (s)]**	**Venue**	**No of participants**						**Grand Total**
						SC		**ST**		**Others**		
						M	**W**	**M**	**W**	**M**	**W**	
Improved Mushroom Production	Decemb er, 2010	Improved Production Technology of Oyster Mushroom Cultivation	Mushroom is a profitable enterprise for rural youths, school dropouts and farm women. Training is imparted to provide knowledge to the rural youths	4	On campus	40	-	40	-	40	-	120

Summary

S. N.	Discipline	No. of trainings	Practicing Farmers / Farming Women			Rural Youth			Extension Functionaries			
			SC/ ST	Others	**Total**	SC/ ST	Others	**Total**	SC/ ST	Others	**Total**	**Grand Total**
1	Crop production	22	215	295	**510**	25	25	**50**	30	50	**80**	**640**
2	Horticulture	14	100	180	**280**	9	21	**30**	10	15	**25**	**335**
3	Livestock production	14	125	135	**260**	20	10	**30**	10	20	**30**	**320**
4	Fishery Science	13	123	207	**330**	12	18	**30**	10	10	**20**	**380**
5	Home Science	24	98	87	**185**	175	175	**350**	10	15	**25**	**560**
6	Extension (Ag.)	21	41	99	**140**	98	182	**280**	30	40	**70**	**490**

7	Plant protection	12	75	165	**240**	80	40	**120**	-	-	**-**	**360**
Total		120	771	1168	**1945**	419	471	**890**	100	150	**250**	**3085**

ACTIVITIES IN KVK FARM / DEMONSTRATION UNITS

S.N.	Enterprises	Variety	Season	Area (ha)
1	Seed production of rice	*MTU 7029, IR 36*	Kharif	5.0
2	Seed production of mustard	*B – 9,WBBN 1/2*	Rabi	1.0
3	Seedlings production of vegetables (tomato, brinjal)	Different varieties	Rabi	0.13
4	Seed production of tomato and brinjal	Different varieties	Rabi	0.07
5	Maintenance of progeny orchard	Different fruit crops	Through out the year	0.4
6	Kid production	*Bengal breed*	Year-round	10
7	IMC Fish seed production	*Catla, Rohu and Mrigal*	Monsoon	3.0 q

OTHER EXTENSION ACTIVITIES

S.N.	Activities	Nos.	Month	Cost involved (Rs.)
1.	Field day	3	Kharif & Rabi	15,000.00
2.	Technology week	1	September, 2010	5,000.00
3.	Ex-trainees' sammelan	1	Sept., 2010	10,000.00
4.	Radio/T.V. show	2	Oct, 2010	10,000.00
5.	Film show	8	Oct., Nov, 2010	10,000.00
6.	Farmers' Study Tour	1	March, 2011	20,000.00
7.	Kisan Mela	1	Rabi	1,00,000.00
			Total	**1, 70, 000.00**

PROPOSED EXPENDITURE FOR DIFFERENT ACTIVITIES OF KVK (2010 - 2011)

S. N.	Activities	Proposed expenditure (Rs.)
1.	Contingencies *i.e.* Stationery, repair of vehicle, POL, telephone other office charges	4,00,000.00
2.	Training Programmes etc.	2,80,000.00
3.	On Farm Trials	56,900.00
4.	FLD on oilseeds and pulses	90,000.00
5	FLD other than oilseeds and pulses	86,400.00
6.	Extension activities and publication	1,70,000.00
	Total	**10,83,300.00**

(Dr. F. H. Rahman)
Programme Coordinator