Action Plan
2011-12

KRISHI VIGYAN KENDRA BURDWAN

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Annual Action Plan
2011 - 2012

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 three 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**

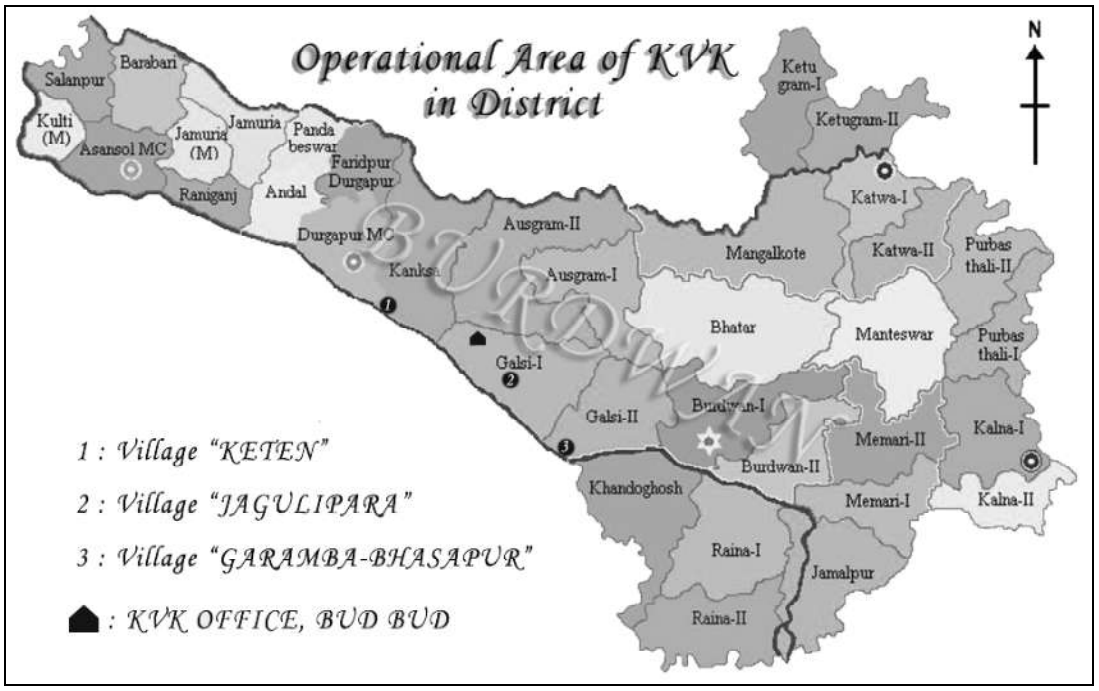
(Source: District statistical handbook, 2007, Bureau of Applied Economics & Statistics, Govt. of West Bengal)

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:

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**: JRO 524 **Technology - 1** to be assessed: JBO 2003H **Technology - 2** to be assessed: JRO 8432 **Technology - 4** to be assessed: JRO 204
7.	Source of technology	:	CRIJAF, Barrackpore
8.	Critical inputs	:	Seeds
9.	Unit size	:	0.14 ha
10.	No. of replication	:	5
11.	Unit cost	:	Rs. 200.00
12.	Total cost	:	Rs. 1000.00
13.	Monitoring indicators	:	►Yield attributing characters ►Yield ►Economics

CROP PRODUCTION

OFT- 2 :

1.	Title	:	**Assessment of performance and economics of *kharif* rice under SRI and *Brown manuring* in medium upland situation of Burdwan district**
2.	Problem definition	:	Soil quality deterioration affecting productivity of rice
3.	Production System	:	Irrigated rice production system
4.	Micro-farming Situation	:	Medium upland.
5.	Hypothesis	:	Soil quality enhancement and optimum productivity.
6.	Technologies to be assessed	:	**Farmers' practice**: Conventional rice cultivation **Technology - 1 to be assessed:** Brown manuring **Technology - 2 to be assessed:** SRI
7.	Source of technology	:	ANGRAU, Hyderabad
8.	Critical inputs	:	Paddy seed, sesbania seed, herbicide
9.	Unit size	:	0.14 ha
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 800.00
12.	Total cost	:	Rs. 5600.00
13.	Monitoring indicators	:	►Yield attributing characters ►Yield ►Economics ►Soil nutrient content (pre and post)

CROP PRODUCTION

OFT- 3 :

1.	Title	:	**Assessment of performance of *lentil* under differing modes of biofertilization in medium upland situation of Burdwan district**
2.	Problem definition	:	Low productivity of lentil
3.	Production System	:	Irrigated rice production system
4.	Micro-farming Situation	:	Medium upland.
5.	Hypothesis	:	Biofertilization augments nutritional requirement effecting higher productivity
6.	Technologies to be assessed	:	**Farmers' practice**: Conventional lentil cultivation **Technology - 1 to be assessed:** *Rhizobium* seed inoculation + 75% N+100% P and K **Technology - 2 to be assessed:** *Rhizobium* soil inoculation + 75% N+100% P and K
7.	Source of technology	:	TNAU
8.	Critical inputs	:	Seed, fertilizer, biofertiliser
9.	Unit size	:	0.14 ha
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1000.00
12.	Total cost	:	Rs. 7000.00
13.	Monitoring indicators	:	►Yield attributing characters ►Yield ►Economics

CROP PRODUCTION

OFT- 4 :

1.	Title	:	**Assessment of performance of *lentil* under differing biofertilization in medium upland situation of Burdwan district**
2.	Problem definition	:	Low productivity of lentil
3.	Production System	:	Irrigated rice production system
4.	Micro-farming Situation	:	Medium upland.
5.	Hypothesis	:	Biofertilization augments nutritional requirement effecting higher productivity
6.	Technologies to be assessed	:	**Farmers' practice**: Conventional lentil cultivation **Technology - 1 to be assessed:** *Rhizobium* **Technology - 2 to be assessed:** *VAM* **Technology - 2 to be assessed:** *Rhizobium + VAM*
7.	Source of technology	:	TNAU
8.	Critical inputs	:	Seed, fertilizer, biofertiliser
9.	Unit size	:	0.14 ha
10.	No. of replication	:	5
11.	Unit cost	:	Rs. 1200.00
12.	Total cost	:	Rs. 6000.00
13.	Monitoring indicators	:	►Yield attributing characters ►Yield ►Economics

HORTICULTURE

OFT - 5 :

1.	Title	:	Evaluation of different varieties of Okra in Burdwan
2.	Problem definition	:	Low yield of okra 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 20oC.
5.	Hypothesis	:	Cultivation of hybrid varieties will fetch higher return.
6.	Technologies to be assessed	:	Farmers' practice: local variety Technology - 1 to be assessed:: OH 597 Technology - 2 to be assessed: 152 Technology - 3 to be assessed: Bhindi No. 10
7.	Source of technology	:	B.C.K.V., Mohanpur
8.	Critical inputs	:	Seed of okra cultivars
9.	Unit size	:	600 sq. m.
10.	No. of replication	:	10
11.	Unit cost	:	Rs. 1200.00
12.	Total cost	:	Rs. 12000.00
13.	Monitoring indicators	:	►Yield ►Benefit: Cost ratio

HORTICULTURE

OFT - 6 :

1.	Title	:	**Evaluation of different transplanting techniques on yield and mortality of tomato in Burdwan**
2.	Problem definition	:	Low yield and high mortality is one of the common problems to the farmers due to conventional method of transplanting.
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	:	Transplanting of seedling with root ball by raising them in potray will reduce mortality and increase yield of tomato.
6.	Technologies to be assessed	:	**Farmers' practice**: *Transplanting from plain field* **Technology - 1** to be assessed**:**: *Transplanting from raised bed* **Technology - 2** to be assessed**:** *Transplanting from potray*
7.	Source of technology	:	B.C.K.V., Mohanpur
8.	Critical inputs	:	Seedlings of tomato raised in potray
9.	Unit size	:	600 sq. m.
10.	No. of replication	:	12
11.	Unit cost	:	Rs. 1200.00
12.	Total cost	:	Rs. 12000.00
13.	Monitoring indicators	:	►Yield ►Seedling mortality ►Benefit: Cost ratio

VETERINARY SCIENCE

OFT- 7 :

1.	Title	:	**Evaluation of performance of different poultry breeds in Burdwan district under backyard farming.**
2.	Problem definition	:	Poor egg production in poultry birds is due to use of local, non descriptive breed.
3.	Production System	:	Livestock and poultry based production system.
4.	Micro farming system	:	House hold farming with 10-20 deshi hen under backyard management.
5.	Hypothesis	:	Adoption of high laying capacity poultry breeds under backyard management will enhance egg production and return.
6.	Technologies to be assessed	:	**Farmers' practice:** Local breed **Technology 1 to be assessed:** *Rhold Island Red (RIR)* **Technology 2 to be assessed:** *Banaraja*
7.	Source of technology	:	WBUAFS, Kolkata
8.	Critical inputs	:	Breeds of RIR and Banaraja
9.	Unit size	:	Twenty (20) poultry of improved breed in each treatment
10.	No. of replication	:	7
11.	Unit cost	:	Rs. 1600.00
12.	Total cost	:	Rs. 11200.00
13.	Monitoring indicators	:	►Growth performance ►Age of 1st laying ►Egg production

SUMMARY

S.N.	Discipline / Thematic area	OFT No.	Unit size	Cost (Rs.)
1	Crop Production (varietals evaluation)	OFT-1	0.14	1000.00
2	Crop production (Resource conservation technology)	OFT-2	0.14 ha	5600.00
3	Crop Production (Nutrient management)	OFT-3	0.14	7000.00
4	Crop production Nutrient management)	OFT-4	0.14 ha	6000.00
5	Horticulture (Varietal evaluation)	OFT-5	0.06 ha	12000.00
6	Horticulture (Production practice)	OFT-6	0.06 ha	12000.00
7	Veterinary Science (Breed evaluation)	OFT-7	20 birds	11200.00
			Total	**56800.00**

FRONT LINE DEMONSTRATION

I. Front Line Demonstration on Oilseeds and Pulses

FLD – 1 :

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)	:	**3**
8. Variety	:	HYV and newly released
9. Sowing time	:	November, 2011
10. Villages where to be implemented	:	Garamba-Bhasapur, Keten, Manikbazar
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 & 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 – 2:

1. Crop	:	**Rice**
2. Thematic area	:	Improved production practice
3. Technology to be demonstrated	:	SRI
4. Season	:	Kharif 2011
5. Previous crop	:	Fallow
6. Farming situation		
a. Rainfed/ Irrigated	:	Irrigated
b. Land situation	:	Medium upland
c. Soil type	:	Clay-loam, sandy loam
7. Area (ha)	:	3
8. Variety	:	MTU 7029
9. Sowing time	:	June-july., 2011
10. Villages where to be implemented	:	Keten, Garamba-Bhasapur, Manikbazar
11. No. of demonstration	:	20
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 :

1. Crop	:	**Jute**
2. Thematic area	:	Crop diversification
3. Technology to be demonstrated	:	Improved cultivation practice
4. Season	:	Pre kharif 2012
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, 2010
10. Villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	18
12. Demonstration cost	:	Rs.15000.00
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. 16000.00**

FLD – 4 :

1.Crop	:	**Tissue Cultured Banana**
2. Thematic area	:	Varietal demonstration
3. Technology to be demonstrated	:	G-9 variety of TCB
4. Season	:	Kharif
5. Previous crop	:	Sesame
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	:	G-9
9. Sowing time	:	June, 2011
10. Villages where to be implemented	:	Garamba- Bhasapur / Jagulipara / Keten
11. No. of demonstration	:	12
12. Demonstration cost	:	Rs. 12000.00
a. Components (items)	:	TCB plantlet
b. ICAR share	:	TCB plantlet
c. Farmers' share		Fertilizer, plant prot. Chem..
13. Cost of extension activities	:	Rs. 500.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 12500.00**

FLD – 5 :

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, 2011
10.Name of villages where to be implemented	:	Garamba-Bhasapur, Burdwan
11. No. of demonstration	:	10
12. Demonstration cost	:	Rs. 8000.00
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. 500.00
14. Total cost of demonstration (ICAR share)	:	**Rs. 8500.00**

FLD 6:

1. Crop	:	**Paddy**
2. Thematic area	:	Pest management
3.Technology to be demonstrated	:	Pest management through Skip row planting & chemical measures
4. Season	:	Kharif
5. Previous crop	:	Sesame
6. Farming situation		Rainfed/Irrigated
7. Area	:	Fifteen (15) farm families
8. Variety	:	MTU - 7029
9. Sowing time (Transplanting)	:	July, 2011
10. Villages where to be implemented	:	Manikbazar, Burdwan
11. No. of demonstration	:	10
12. Demonstration cost	:	Rs. 4000.00
a. Components (items)	:	Seed, fertilizer, labour, plant protection chemicals
b. ICAR share	:	Plant protection chemicals
c. Farmers' share		Seed, fertilizer, labour
13. Cost of extension activities like Field Day etc. and materials like board etc.	:	Rs. 1500.00
14. Total cost of demonstration (ICAR share)	:	Rs. 5500.00

FLD – 7 :

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 , 2011
10.Name of villages where to be implemented	:	Jagulipara, Burdwan
11. No. of demonstration	:	5
12. Demonstration cost	:	Rs. 2500.00
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. 2900.00**

FLD – 8 :

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 (2011)
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- 9:

1. Enterprise	:	**Cattle**
2. Thematic area	:	Nutrition management
3. Technology to be demonstrated	:	Supplementation of home made feed
4. Season	:	Year round (2011)
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 Lactation cow/ demonstration
10. Demonstration cost	:	Rs. 12000.00
a. Components (items)	:	Feed and medicine
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. 12500.00**

SUMMARY

I. FLD on Oilseeds and Pulses

S. N.	Crop & Var	Season	Farming Situation	Area (ha.)	Demonstration cost (Rs.)
1.	Lentil	Rabi	Irrigated	3.0	10,000.00
Total				3.0	**10,000.00**

II. FLD on Other than Oilseeds and Pulses

S. N.	Crop / Enterprise	Subject	Season	Area	Variety	Demonstration cost (Rs.)
1.	Rice	Improved technology	Khari	3 ha	MTU 7029	20000.00
2.	Jute	Improved production practices	Pre kharif	4ha.	JBO 2003H	16000.00
3.	TCB	Production practice	Kharif	0.5 ha	G 9	12500.00
4.	Potato	Disease management	Rabi	1 ha	Kufri Pokhraj	8500.00
5.	Paddy	Pest management (BPH)	Kharif	1 ha	MTU 7029	5500.00
6.	Rice bean (as fodder)	Improved management practices	Kharif	0.2 ha	Bidhan-1	2900.00
7.	Cattle	Mineral mixture	Year round	10 cow	Region specific for deshi cow	5500.00
8.	Cattle	Supplemented feeding	Year round	10 cow	Deshi cow	12500.00
					Total	**83400.00**

TRAINING PROGRAMMES TO BE CONDUCTED DURING 2011-12

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, 11	Improved production technology of Jute	To make farmers aware about the improved production practices	1 day	Off-campus	Dr. D. Ghorai (SMS, Ag.)	10	-	-	-	20	-	30
May, 11	Rice cultivation through SRI	To make farmers aware about the system	2 days	On and off campus	Dr. D. Ghorai (SMS	20	-	-	-	40	-	60
June, 11	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	Dr. D. Ghorai (SMS	10	-	-	-	20	-	30
June, 11	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	Dr. D. Ghorai (SMS	20	-	10	-	30	-	60
July, 11	Rice cultivation through SRI	To make farmers aware about the system	1 days	Off campus	Dr. D. Ghorai (SMS	10	-	-	-	20	-	30
July, 11	Use of fibre extractor in extraction of fibre	To reduce drudgery in retting	1 day	Off-campus	Dr. D. Ghorai (SMS	10	-	-	-	20	-	30

Aug, 11	Vermicompost production at farmers level	Scope of utilization of vermicompost and the marketing prospects	1	On campus	Dr. D. Ghorai (SMS	3	-	7	-	10	-	20
Sep, 11	Paddy seed production technology	To produce quality seed for themselves	1 day	Off-campus	Dr. D. Ghorai (SMS	10	-	5	-	15	-	30
Oct, 11	NADEP compost production	To produce organic manure using own agricultural wastes	1 day	Off-campus	Dr. D. Ghorai (SMS	15	-	-	-	15	-	30
Nov, 11	Improved fertilizer management in mustard	To acquaint farmers with improved cultivation and production technology	2 days	Off-campus	Dr. D. Ghorai (SMS	20	-	10	-	30	-	60
Dec, 11	Improved production technology of Sugarcane	To acquaint farmers with improved cultivation and production technology	1 day	Off-campus	Dr. D. Ghorai (SMS	15	-	-	-	15	-	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**	
Sep, 11	Paddy seed production technology	To develop small scale entrepreneurship	1	Off-campus	Dr. D. Ghorai (SMS	10	-	5	-	15	-	30
January, 2012	Vermicompost production at farmers level	Scope of utilization of vermicompost and the marketing prospects	1	On campus	Dr. D. Ghorai (SMS	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	
June 11	Rice cultivation through SRI	To make extension personnel abreast with the technology	1 day	On campus	Dr. D. Ghorai (SMS)	10	-	-	-	20	-	30
November 11	Climate change and agriculture	Providing knowledge about the importance of effect of climate change on agriculture	1	On campus	Dr. D. Ghorai (SMS	10				15		25

II. Horticulture

a) For practicing farmers and farm women

Month	Title of training	Objective	Duration	Venue	Course Facilitator	Target no. of participants						Total
						SC		ST		Other		
						M	F	M	F	M	F	
April, 11	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, 11	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	10	-	-	-	20	-	30
June, '11	Improved cultivation of tissue culture banana	To learn the farmers about the proper techniques of banana cultivation	1 day	Off campus	Dr. S. Sarkar	8	2	-	-	10	5	25

July, 11	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
Aug , 11	Production technology of cole crops in greenhouse	To learn the farmers about the specific techniques of cultivation in greenhouse	1 day	Off campus	Dr. S. Sarkar SMS	10	-	-	-	20	-	30
Oct, 11	Improved production technology of tomato	To acquaint farmers with improved cultivation and production technology of tomato	1 day	Off campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	20	-	30
Nov, 11	Improved production technology of potato	To acquaint farmers with improved cultivation and production technology of potato	1 day	Off campus	Dr. S. Sarkar SMS	10	-	-	-	20	-	30
Dec, 11	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,12	Improved production technology of okra	To acquaint farmers about the improved techniques of cultivation of okra	1days	Off campus	Dr. S. Sarkar SMS	10	-	-	-	15	-	25
March, 12	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, 11	Seed production techniques of major vegetable crops	Phase 1: Preparation of beds and nursery raising	1	On campus	Dr. S. Sarkar SMS (Hort.)	3	-	-	-	7	-	10
Dec, 11	Seed production techniques of major vegetable crops	Phase 2 :Management of crops ,field inspection and rouging	1	On campus	Dr. S. Sarkar SMS (Hort.)	3	-	-	-	7	-	10
Feb,12	Seed production techniques of major vegetable crops	Phase 3: Post harvest operations and storage	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 2011	Micro irrigation technology	To provide knowledge of micro irrigation technology and Govt. sponsored scheme to make use of this technology.	1	on campus	Dr. Subrata Sarkar, SMS (Hort)	15				15		30

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	
Post harvest technology	April, 11	Techniques of paneer preparation	Milk producer can process excess milk and ensuring better return.	1	Off campus	-	10	-	-	8	12	30
Dairy Management	June, 11	Care of new born kids	To check mortality and ensuring good health	1	Off campus	10	20	-	-	-	-	30
Dairy Management	July, 11	Poisonous plants and their effect on animal health	Farmer will develop knowledge and skill regarding proper feeding practice	1	Off campus	10	5	-	-	10	5	30
Disease management	August, 11	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, 11	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, 11	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, 11	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, 12	Care and handling of day old chicks	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, 11	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	Feb., 2012	New generation vaccine and immunization schedule for poultry	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	
Composite fish culture	Sept, 2011	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	Oct, 2011	Rearing pond preparation and management.	To learn pond preparation and management practices of rearing ponds	1	Off campus	5	3			17	5	30
Composite fish culture	Nov, 2011	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	Nov, 2011	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	Dec, 2011	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 & culture of freshwater prawn	Jan, 2012	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
Carp fry and fingerling rearing	Feb, 2011	Preparation and management of nursery pond	To learn preparation and management of nursery ponds	1	Off campus	6	5			19		30
Integrated fish farming	Feb, 2012	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

b) 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	
Carp breeding and hatchery management	October , 2011	Induced breeding of Indian major carp	To learn about different aspects of induced breeding in Hapa & Bundh breeding	1	On campus	6	6			14	4	30

V. Home Science: Vocational Training for Farm women

a) For 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	
Jute Handicrafts	Nov, 2011	Jute handicrafts preparation for Self employment	Empowering farm women with knowledge and skill of preparing jute handicrafts.	7	On-campus		50	-	160	-	-	210
Kantha stitch	Dec, 2011	Vocational training on Preparation of kantha stitch	Empowering farm women with knowledge and skill of preparing kantha stitch.	7	On-Campus		50	-	160	-	-	210

VI. 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, 2011	Integrated Pest Management (IPM) in rice	The training would help the farmers to develop the concept of IPM	2	Off –campus + On-campus	20	-	-	-	40	-	60

Pest Management	July, 2011	Pest Management in Jute	The training would help the farmers to learn the proper management for insect & disease attack.	1	Off-Campus	20	-	-	-	10	-	30
Bio-control of pests and diseases	October, 2011	Pest Management through Bio-pesticides	The training would help the farmers to get detail conception about these eco-friendly pesticides.	1	On –campus	10	-	-	--	20	-	30
Pest Management	December, 2011	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	December, 2011	Pest Management in Mustard	The prog would help the farmers to get detail conception different types of insect & disease attack & their proper management.	2	Off – campus and On-campus	20				40		60
Pest Management	Jan, 2012	Pest Management in brinjal	The training would help the farmers about proper pest management in brinjal.	1	Off campus	10	-	-	-	20	-	30

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	Dec 2011	Improved Production Technology of Oyster Mushroom Cultivation	Mushroom is a profitable enterprise for rural youths, school dropouts & farm women. Training is imparted to provide knowledge to the rural youths	4	On campus	40	-	20	-	60	-	120

SUMMARY of Trainings to be conducted

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	14	175	235	**410**	25	25	**50**	20	35	**55**	**515**
2	Horticulture	16	100	180	**280**	9	21	**30**	15	15	**30**	**340**
3	Livestock production	11	115	115	**230**	20	10	**30**	10	20	**30**	**290**
4	Fishery	8	87	153	**240**	12	18	**30**	-	-	**-**	**270**
5	Home Sc	2	-	-	**-**	120	300	**420**	-	-	**-**	**420**
5	Plant protection	7	95	135	**230**	60	60	**120**	-	-	**-**	**350**
Grand total												**2185**

ACTIVITIES IN KVK FARM / DEMONSTRATION UNITS

S.N.	Enterprises	Variety	Season	Area (ha)
1	Seed production of rice	*MTU 7029*	Kharif	5.0
2	Seed production of sesame	*IS 5*	Pre kharif	2.0
3	Seed production of lentil	*WBL 81*	Pre kharif	1.0
4	Seed production of green gram	*Pant mung 2*	Rabi	1.0
5	Seed production of Blackgram	*Pant urd*	Rabi	1.0
6	Seedlings production of vegetables (tomato, brinjal)	Different varieties	Rabi	--
7	Maintenance of progeny orchard	Different fruit crops	Throughout the year	1.0
8	Green house production of vegetables	Cauliflower, capsicum etc.	Throughout the year	1000 m^2
9	Kid production	*Bengal breed*	Year-round	10

OTHER EXTENSION ACTIVITIES:

S.N.	Activities	Nos.	Month	Cost involved (Rs.)
1.	Field day	4	Kharif & Rabi	15,000.00
2.	Technology week	1	September, 2011	25,000.00
3.	Ex-trainees' sammelan	2	Oct. 2011	10,000.00
4.	Farmers-Scientist Interaction	2	Oct. 2011	20,000.00
5.	Film show/ TV show	8	Oct. Nov, 2011	10,000.00
6.	Farmers' Study Tour	1	Feb, 2012	20,000.00
7.	Kisan Mela	1	Rabi 2011	1,00,000.00
			Total	**2, 00, 000.00**

PROPOSED EXPENDITURE FOR DIFFERENT ACTIVITIES OF KVK (2011 - 2012):

S. N.	Activities	Proposed expenditure (Rs.)
1.	Contingencies *i.e*. Stationery, repair of vehicle, POL, telephone other office charges	3,00,000.00
2.	Training Programmes etc	2,80,000.00
3.	On Farm Trials	60,000.00
4.	FLD on oilseeds and pulses	85,000.00
5	FLD other than oilseeds and pulses	40,000.00
6.	Extension activities and publication	1,50,000.00
Total		**9,15,000.00**

(F. H. Rahman)
Programme Coordinator