Action Plan 2007-08

KRISHI VIGYAN KENDRA BURDWAN





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Annual Action Plan 2007-2008

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.

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 is 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	32
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:	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	314669	
Duck	1835094	

Major problems identified:

(a) Crops 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 2007-2008

AGRICULTURE

OFT 1:

1.	Title	Assessment of rice-lentil-vegetable crop sequence through supplementation of bio-based plant nutrient
2.	Problem definition	Rice based cropping system prevails in the district of Burdwan among which rice-lentil-okra is a major one. Farmers are under impression that they are not getting desired yield as they would get earlier besides that soil is losing quality in respect of permeability, compaction etc. One of the likely reason being the exclusive use of fertilizer of chemical origin with hardly any input of fertilizer of plant/animal origin like manures, biofertiliser, compost and green manure.
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. Lentil and okra are mostly irrigated upland crops. Average temperature in hot season is 30°C while at the cold season it is 20°C. Average rainfall is 1500 millimeter. The cold season starts from about the middle of November and continues till the end of February. March to May is dry summer intervened by tropical cyclones and storms. June to September is wet summer while October and November is autumn.
5.	Hypothesis	Green manure and biofertilizer is effective in augmenting nutrient requirement besides maintaining soil quality
6.	Treatment (Detailed below) *	Rice: T1: Farmers practice (60:60:45 kg NPK/ha) T2: Recommended dose of fertilizer (80: 40:40 kg NPK/ha) T3: Seedling treatment with <i>Azotobacter / Azospirillum</i> + 75% recommended dose of NPK Lentil: T1: Farmers practice (15:30:0 kg NPK /ha) T2: Recommended dose of fertilizer (20: 40: 20 kg NPK /ha) T3: Seed treatment with <i>Rhizobium</i> + 75% recommended dose of NPK Okra: T1: Farmers practice (60:30:30 kg NPK /ha) T2: Recommended dose of fertilizer (80:40:40 kg NPK /ha)

		T3: Seed treatment with <i>Azotobacter / Azospirillum</i> + 75% recommended dose of NPK
7.	Critical inputs	Seed (sesbania), fertilizer, biofertiliser (<i>Azotobacter</i> + <i>Azospirillum</i>)
8.	Unit size	0.05 ha
9.	No. of replication	6
10.	Unit cost	Rs. 1000
11.	Total cost	Rs. 6000
12.	Monitoring indicators	Initial NPK and organic matter content in soil and final Yield attributing characters Yield Economics

* Farmers' practice---

Rice : 135 kg DAP, 80 kg urea, 75 kg MOP per hectare, no manure and biofertiliser

Lentil : 67 kg DAP, 7.5 kg urea per hectare, no biofertiliser

Okra : 67 kg DAP, 105 kg urea, 50 kg MOP per hectare, no biofertiliser

* Seedlings will be soaked in solution of equimixture of Azotobacter and Azospirillum for 30 min and will be transplanted after drying in shade in rice

* Seed will be mixed with slurry of Rhizobium/Azotobacter + Azospirillum and will be sown after drying in shade

* Sesbania will be grown in situ and will be mixed after 45 days in case of rice

OFT 2:

1.	Title	Soil test crop response based fertilizer application in rice- mustard-Jute crop sequence
2.	Problem definition	Rice-mustard-jute is an important cropping system among the rice oriented cropping systems those are generally practiced in Burdwan. Farmers have a general complaint that they are not getting sufficient yield in respect of all these crops as they used to get earlier. One of the reasons may be unbalanced use of fertilizer coupled with fertilizer application not based on soil test.
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. Mustard and jute are mostly irrigated. Average temperature in hot season is 30°C while at the cold season it is 20°C. Average rainfall is 1500 millimeter. The cold season starts from about the middle of November and continues till the end of February. March to May is dry summer intervened by tropical cyclones and storms. June to September is wet summer while October and November is autumn.
5.	Hypothesis	Soil test based Balanced and optimum dose of fertilizer increases productivity as well as maintains soil fertility.
6.	Treatment (Detailed below)*	Rice: T1: Farmers practice (60:60:45 kg NPK/ha) T2: Recommended dose of fertilizer (80: 40:40 kg NPK/ha) T3: Application of NPK for a targeted yield of 60 q/ha T4: Application of NPK for a targeted yield of 65 q/ha Mustard: T1: Farmers practice (50:50:20 kg NPK/ha) T2: Recommended dose of fertilizer (80: 40:40 kg NPK/ha) T3: Application of NPK for a targeted yield of 15 q/ha T4: Application of NPK for a targeted yield of 20 q/ha Jute: T1: Farmers practice (50:40:50 kg NPK/ha) T2 : Recommended dose of fertilizer (60:30:30 kg NPK/ha) T3 : Application of NPK for a targeted yield of 35 q/ha T4: Application of NPK for a targeted yield of 35 q/ha T4: Application of NPK for a targeted yield of 40 q/ha
7.	Critical inputs	Fertilizer
7. 8.	Critical inputs Unit size	0.05 ha
9.	No. of replication	6
10.	Unit cost	Rs. 1000
11.	Total cost	Rs. 6000
12.	Monitoring indicators	Initial NPK and organic matter content in soil Yield attributing characters Yield Economics

* Farmers' practice---

Rice : 135 kg DAP, 80 kg urea, 75 kg MOP per hectare

Mustard : 110 kg DAP, 70 kg urea per, 37 kg MOP per hectare

Jute : 85 kg DAP, 80 kg urea, 85 kg MOP per hectare

Target yield equation for rice -

FN= 3.94T - 0.47 SN

FP₂O₅= 3.91 T - 2.94 SP

FK₂O= 2.49 T – 0.22 SK

Where SN, SP, SK are soil test values of N, P and K ; FN, FP₂O₅, FK₂O are fertilizer requirement

Target yield equation for mustard -

FN= 8.73 T - 0.24 SN

FP₂O₅= 7.41 T - 0.41 SP

FK₂O= 4.74 T - 0.08 SK

Where SN, SP, SK are soil test values of N, P and K ; FN, FP₂O₅, FK₂O are fertilizer requirement

Target yield equation for jute -

FN= 2.42 T - 0.10 SN

 $FP_2O_5 = 4.54 \text{ T} - 2.48 \text{ SP}$

FK₂O= 6.36 T - 0.36 SK

Where SN, SP, SK are soil test values of N, P and K ; FN, FP₂O₅, FK₂O are fertilizer requirement

HORTICULTURE

OFT 3:

1.	Title	Assessment of IPM and chemical measures against fruit and shoot borer, phomopsis blight and bacterial wilt of brinjal
2.	Problem definition	Several insect, pest and disease invasion is one of the prime factors for low productivity in brinjal. Excess use of pesticides and fungicides without judging their specificity is a very common practice by the brinjal growers. It has several disadvantages, not only the high cost of pesticides but their residual effects as well as it induces resistance of pest and microbes towards pesticides. As a result farmers are increasing the amount and frequency of pesticides but not getting any positive result.
3.	Production System	Irrigated vegetable based
4.	Micro- farming system	Medium to upland. Average temperature in hot season is 30°C while at the cold season it is 20°C. Average rainfall is 1500 millimeter. The cold season starts from about the middle of November and continues till the end of February. March to May is dry summer intervened by tropical cyclones and storms. June to September is wet summer while October and November is autumn.
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 integration of several management practices to minimize over reliance on pesticides and to minimize the plant protection cost.
6.	Treatment*	$T_1 : IPM approach$ $T_2 : Selective chemicals$ $T_3 : Farmers practice$
7.	Critical inputs	Seeds, plant protection chemicals, Pheromone traps.
8.	Unit size	570 sq. m.
9.	No. of replication	7

10.	Unit cost	Rs. 650
11.	Total cost	Rs. 4550
12.	Monitoring indicators	Percentage pest and disease infestation. Seasonality of the pest and diseases. Yield, vigour and fruit colour Cost effectiveness. Farmer's assessment

T1-

Hot water seed treatment. Seedling treatment with Streptocycline Periodical removal & destruction of early infected fruit & shoots Application of neem cake/oil cake. Installation of sex pheromone traps. Alternate spray of neem based pesticides. Need based application of animal origin insecticide i.e., Cartap Hydrochloride.

T₂₋

Soil application of Carbofuran 3G @ 5g/plant Spray of Quinolphos + Cypermethrin combination. Seedling treatment with Streptocycline. Foliar spray of Chlorothalonin. Foliar spray of Streptocycline

T₃- Phorate (10g/plant, after transplanting and again 45 DAT), Cypermethrin and Dithane M-45 (applied very frequently about 7-10 days interval)

1.	Title	Exploitation of yield potential of garden pea through seed inoculation with <i>Rhizobium</i> culture and application of micronutrients
2.	Problem definition	Low yield of garden pea is one of the common problems to the farmers. They don't have any idea about nodule formation or biofertilizer inoculation for increasing the uptake of nitrogen. Another problem associated with pea is the poor seed setting and

		small size of grain.
3.	Production System	Irrigated vegetable based
4.	Micro- farming system	Medium to upland. Average rainfall is 1500 millimeter. 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	<i>Rhizobium</i> inoculation increase the nitrogen uptake of plant and application of micro-nutrient improves the seed setting as well as grain weight
6.	Treatment*	T_1 = Recommended dose of NPK (40:60:40 NPK per ha)
		T_2 = Seed inoculation with Bio-fertilizer + 75% of recommended dose of nitrogen
		T ₃ = Seed inoculation with Bio-fertilizer + 75% of recommended dose of nitrogen + Foliar spray of micronutrient
		T_4 = Farmers practice (40:20:20 NPK per ha)
7.	Critical inputs	Fertilizer, biofertilizer and micronutrient
8.	Unit size	400 sq. m.
9.	No. of replication	5
10.	Unit cost	Rs. 1000
11.	Total cost	Rs. 5000
12.	Monitoring indicators	Yield performance 1000 grain weight
		Cost-benefit ratio

Farmers practice – No use of biofertilizer and micronutrient. Sole use of chemical fertilizers in the form of DAP, urea and MOP.

* Seed will be mixed with slurry of *Rhizobium* and will be sown after drying in shade

* Fertilizers will be supplied in the form of urea, SSP and MOP.

* Mixed form of micronutrients like Tracel-2(Mg, Zn, Cu, B, Mo etc.) will be applied as foliar spray.

FISHERY SCIENCE

OFT 5:

1.	Title	Standardization of manuring for enhancement of fish yield
2.	Problem definition	The ponds of Ketan in Burdwan district having problem of water scarcity round the year. The primary productivity of those ponds is very low. This may be the reason for poor fish productivity in domestic small and medium sized pond.
3.	Production System	Modified extensive system
4.	Micro-farming Situation	Medium or small sized domestic water bodies
5.	Hypothesis	application of cowdung in proper doses would increase the productivity of fish
6.	Treatment*	T_1 = Farmers' practice (Stocking density 7500 nosfish/ha) with indiscriminate use of cowdung T_2 = Stocking density 7500 nosfish/ha + cowdung (5t/ha) T_3 = Stocking density 7500 nosfish/ha + cowdung(10 t/ha)
7.	Critical inputs	Fish seed, cowdung
8.	Unit size	0.066 ha
9.	No. of replication	07
10.	Unit cost	Rs. 2000
11.	Total cost	Rs. 14000

12.	Monitoring indicators	Growth rate
		Yield performance
		Plankton growth

Farmers' practice: Farmers are habituated to use cowdung indiscriminately. Sometimes they apply large amount of cowdung when it does not require and sometimes very less amount. So this hampers the productivity of the waterbody.

VETERINARY SCIENCE

OFT 6:

1.	Title	Mineral content-based feed supplementation in cow
2.	Problem definition	Dairy raiser often complains about infertility, prolong calving interval and low milk yield in deshi cow reason being deficiency of minerals leading to poor animal performance like growth, milk production, and reproduction. It has been noticed that deficiency of iodine in animal mainly occurs due to it's deficiency in soil or in feedstuff. Mineral supplementation to animal without considering elements wise requirement can have adverse effect on overall performance of cow.
3.	Production System	Semi-intensive
4.	Micro- farming system	House hold farming with 2-4 cattle
5.	Hypothesis	Minerals in its proper bioavailable form are vital for growth, milk production and reproduction. Additionally, trace minerals with the exception of iron and copper can be increased in milk by increasing the levels of those minerals in ration upto a certain extent
6.	Treatment*	T_1 = Farmers' practiced (only common salt -50g/d/h)

		$T_2 = Formulated mineral mixture with chloride salt (30g/d/h)$ $T_3 = Formulated mineral mixture with chloride + sulphate salt (30g/d/h)$
7.	Critical inputs	Mineral mixture
8.	Unit size	1 cow in each treatment
9.	No. of replication	10
10.	Unit cost	Rs. 700
11.	Total cost	Rs. 7000
12.	Monitoring indicators	Levels of minerals in locally available feedstuff Lactation length, calving interval Milk yield Farmers' impact (Appearance of cow, sensory evaluation of milk)

* Farmer practice (T1): Grazing and paddy straw with common salt (50 gm/day/head)

Mineral mixture:

T2 - main ingredients are Dicalcium phosphate, Shell grid, chloride salt of sodium and calcium, cupric oxide, cobalt carbonate, magnesium oxide, manganese carbonate, sodium selenite and zinc oxide. Concentration will be varied according to the mineral content in feed stuff

T3- main ingredients are Dicalcium phosphate, Shell grid, chloride salt of sodium, cupric sulphate, cobalt sulphate, magnesium sulphate, manganese sulphate, sodium selenite, potassium iodide and zinc sulphate. Concentration will be varied according to the mineral content in feed stuff

-		
OET	7.	
ULL	11	

1.	Title	Evaluation of formulated duck feed using locally available feed ingredients
2.	Problem definition	Duck raring is a common practice among small and marginal farmers of Burdwan. Ducks used to fed mainly on aquatic flora and fauna, kitchen waste etc. Farmers are encountering problem of providing adequate feed to the ducks during summer and winter as most of aquatic bodies become dry and resulting in small and thin shelled egg production.
4.	Production System	Semi-intensive
5.	Micro farming system	House hold farming with a flock of 5-6 ducks.
8.	Hypothesis	Adequate feeding and balanced ration will enhance egg productivity and improve egg quality
9.	Treatment*	 T₁- Farmers' practice T₂- Economic feeding (50gm/d/layer + 2-4 hrs foraging) T₃- Formulated feed with vitamins (100gm/d/layer)
10.	Critical inputs	Formulated feed
11.	Unit size	4 Khaki Campbell ducks
12.	No. of replication	8
13.	Unit cost	Rs. 1500
14.	Total cost	Rs. 12000
15.	Monitoring indicators	Age at first laying Body growth (monthly)

Number of egg production
Egg quality evaluation (Wt, Haugh unit, Shape index, shell thichness)
Hatchability

Farmer practice: Feeding of rice polish, boiled rice, kitchen waste and foraging

Formulated ration : A ration will formulate covering ME 2650 kcal/ kg and CP-18 % for layer using locally available feed ingredients like broken rice, wheat bran, mustard cake, shell grid and maize, soybean meal

HOME SCIENCE

OFT 8:

1.	Title	Effectiveness of different storage structures for evaluation of shelf life of locally available and seasonal vegetables and fruits
2.	Problem area	Spoilage of freshly harvested vegetables and fruits is a serious problem in the village. There are different perishable vegetables and fruits like ridge guard, bitter guard, carrot, cabbage, cauliflower and mango grown in large quantity in the village. To avoid the rush selling and to fetch better price in the market it is very important to store the produce in better storage condition. Cool storage can prolong the shelf life of fresh produce but refrigeration equipment is expensive to buy, run and maintain. So there is a great need for low cost storage conditions for the village.
4.	Production System	Homestead system
5.	Micro farming system	Household condition under intensive manual care
8.	Hypothesis	Low cost storage structures stay cooler than the outside

		and maintain higher relative humidity.
9.	Treatment*	T ₁ – Farmers' practice
		T ₂ – Bamboo iceless refrigerator
		T ₃ – Zero energy cool chamber
10.	Critical inputs	Bricks, cement
11.	Unit size	Standard size
12.	No. of replication	5
13.	Unit cost	Total - Rs. 3000 (T ₁ -Nil, T ₂ -Rs 500, T ₃ -Rs 2500)
14.	Total cost (for 5 replications)	Rs.15000
15.	Monitoring	Storage Temperature
	indicators	Percentage of rotting
		Duration of shelf life
		Change of colour
		Change of texture
		Loss in weight

Farmers' Practice: Storing vegetables and fruits in a corner of the house or in a bamboo basket.

Bamboo iceless refrigerator: Big Bamboo basket with a lid will be covered by a wet gunny bag and watering it frequently. The vegetables can be stored in plastic crates in side the bamboo basket.

Zero Energy cool chamber: This is a double walled brick structure and in between two walls river sand can be used and the sand should keep wet to retain the moisture. The chamber can be covered by a frame of bamboo, straw or dry grass.

OFT 9:

1.	Title	Supplementation of diversified vegetables to farm families through kitchen garden
2.	Problem definition	Intake of leafy and other nutritious vegetables in daily diet of the farm women is very less. According to RDA of Foods, ICMR 1984

		requirement of vegetables in daily diet of women is 100g (GLV) and
4.	Production System	Vegetable based
5.	Micro farming system	Upland, intensive cropping
9.	Hypothesis	Increase production of the garden and nutritious vegetables improve diet of farm women
	Treatment*	 T₁ - Farmers' practice T₂ - Diversified vegetables without manuring T₃ - Diversified vegetables + Manuring
10.	Critical inputs	Seed and seedlings
11.	Unit size	80sqm
12.	No. of replication	7
13.	Unit cost	Rs 200
14.	Total cost	Rs 4200
15.	Monitoring indicators	Total yield (component wise) Incorporation of vegetables in daily diet Surplus production.

Farmers' practice: generally the farm women plant 2-3 cucurbit plants without any agricultural operations.

T₂: Including the cucurbit plants vegetables like chilli, okra, brinjal, drumstick, dolichos bean, papaya and tomato can be planted without manuring.

T₃: Including the cucurbit plants vegetables like chilli, okra, brinjal, drumstick, dolichos bean, papaya and tomato can be planted with organic manure and other agricultural operations can be done.

HORTICULTURE-FISHERIES-VETERINARY-HOME SCIENCE INTEGRATED

1.	Title	Integration of different components for production maximization									
2.	Problem definition	Non efficient utilization of resources									
4.	Production System	Integrated farming system									
5.	Micro-farming	Medium or small sized tanks and bund area									
	Situation										
9.	Hypothesis	Better resource utilization and generation of income from									
		several commodities/ enterprises									
	Treatment*	T1: Separate farming of different enterprise									
		T2: Vegetable-fish farming									
		T3: Vegetable-duck-fish farming									
		T4: Vegetable-duck-fish farming - post harvest of produce*									
10.	Critical inputs	Seed, Khaki Campbell etc.									
11.	Unit size	0.05 ha									
12.	No. of replication	5									
13.	Unit cost	Rs. 2000									
14.	Total cost	Rs. 10000									
15.	Monitoring indicators	Cost Benefit Ratio									
	-	Yield									
		Farmers impact									

Post harvest of produce: Precooling, cleaning, grading, sorting and improvement of keeping quality.

Front line Demonstration

Oilseeds and pulses

Sl. no.	Crop &Var.*	Season	Farming Situation	Area/Unit (ha.)
1	Groundnut	Kharif	Rainfed	2.0
2	Mustard	Rabi	Irrigated	6.0
3	Sesame	Rabi/ summer	Irrigated	5.0
4	Lentil	Rabi	Irrigated	3.0
5	Chickpea	Rabi	Irrigated	3.0

Other than Oilseeds and pulses

Crop	Subject	Area	Variety
Paddy	Package demonstration	5 ha	MTU - 7029
Potato	Production technology	1 ha	Kufri Pokhraj
Feed	Duck feed preparation	For 100 grower ducks	Grower ration
Jute	Package demonstration	3 ha.	JRO - 524
Air breathing fish culture	Culture practices of deshi magur (Clarius batrachus)	0.2 ha	

KVK BURDWAN

Training Programme to be conducted during 2007-08

Month	Title of training	Objective	Duration	Venue	Т	arget	no. of	f parti	icipan	ts (li	kely)
					S	С	S	Т	Ot	her	Total
					Μ	F	Μ	F	Μ	F	
April, 07	Cultivation practices of jute	Hand-on training for seed treatment against fungal disease and proper nursery management for growing healthy seed crops	1 day	Off- campus	5	0	0	0	15	0	20
May, 07	Pest and disease control of jute	To make farmer identify and adopt necessary preventive measures	1 day	Off- campus	5	0	0	0	15	0	20
June, 07	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	30	0	15	0	40	0	85
June, 07	Seed treatment and nursery management of <i>kharif</i> paddy	Hand-on training for seed treatment against fungal disease and proper nursery management for growing healthy seed crops	1 day	Off- campus	40	0	20	0	50	0	110
July, 07	Pest and disease control of paddy in early season	For diagnosis of disease and pest methodology to control them	4 days	Off- campus	40	0	20	0	50	0	110
July, 07	Post-harvest operations of jute	To thoroughly learn the process of retting of jute for better quality fibre production	3 days	Off- campus	5	0	0	0	15	0	20

Training Programme to be conducted during 2007-08 on Crop Production

July, 07	Hand on training	To emphasize need of	1 day	Off-	10	0	5	0	15	0	30
- 5	on utilization of	biofertilization and its	5	campus							
	biofertiliser in	efficacy in supplementing		1							
	kharif rice	nutrient requirement									
July, 07	Improved	To acquaint farmers with	2 days	Off-	5	0	0	0	15	0	20
	production	improved cultivation and		campus							
	technology of	production technology									
	groundnut										
Nov, 07	Improved	To teach and demonstrate	2 days	Off-	20	0	15	0	30	0	65
	production	the methodology of		campus							
	technology of rabi	intensified rice system with									
	rice	low water input									
Dec, 07	Improved	To make farmers aware of	1 day	Off-	10	0	5	0	20	0	35
	production	seed treatment, sowing		campus							
	technology on	technique, fertilizer									
	wheat	management irrigation									
		schedule for better crop									
		yield	0.1	0.0	•	-	•	-	10	0	0.0
Dec, 07	Improved	To acquaint farmers with	2 days	Off-	20	0	20	0	40	0	80
	production	improved cultivation and		campus							
	technology of	production technology									
D 07	mustard		1 1	Off-	15	0	15	0	20	0	(0)
Dec, 07	Improved	To acquaint farmers with	1 day	-	15	0	15	0	30	0	60
	production	improved cultivation and		campus							
Dec, 07	technology of lentil Improved	production technology To acquaint farmers with	2 days	Off-	10	0	10	0	40	0	60
Dec, 07	1	1	2 days	-	10	0	10	0	40	0	60
	production technology of	improved cultivation and production technology		campus							
	chickpea	production technology									
Jan, 08	Improved	To teach about seed	2 days	Off-	10	0	10	0	30	0	50
Jan, 00	production	treatment, fertilizer	2 uays		10	0	10	0	50	U	50
	technology of	management, pest and		campus							
	sesame	disease diagnoses and									
	sesame	uiscase uiagiioses allu									

	preventions to get enhanced yield and proper grain quality								
Feb, 08	Te make farmers able to identify pests and diseases of crops	2	20	0	20	0	40	0	80

Rural youth

Month	Course Title	Course object	Course objectDurationVenueNo of participants			Course object Duration Venue No of		No of partici			o of participants			Grand
			(day)		S	SC ST		SC ST Others		ST Others		Total		
					Μ	W	Μ	W	Μ	W				
Sept, 07	Mushroom cultivation for rural youths long duration	To empower rural youths on production of oyster mushroom	4 days in stages	Off- campus	20	25	10	10	25	30	120			
Oct,07	Mushroom cultivation for rural youths long duration	To empower rural youths on production of oyster mushroom	4 days	Off campus	20	25	10	10	25	30	120			

Training Programme to be conducted during 2007 – 08 on Horticulture

Month	Title of training	Objective	Duratio	Venue	Course	Target no. of par				ticipants (likely)								
			n		Facilitator	S	SC		SC		SC		SC		Т	Ot	her	Total
						Μ	F	Μ	F	Μ	F							
April, 07	Management of major pest of summer vegetables	To provide knowledge about commercial propagation techniques of different crops. Details of different techniques like grafting, air layering, budding, cutting etc.	1 day	Off- campus	Dr. S. Sarkar SMS (Hort.)	10	-	-	-	15	-	25						

May, 07	Management of major diseases of summer vegetables	To help the farmers to produce their own seed by knowing the detailed procedure such as isolation distance, maturing index, nutrient management, seed extract, drying and storing	1 day	Off campus	Dr. Sarkar SMS (Hort.)	S.	10	-	-	-	15	-	25
June, 07	Seed production techniques of Summer vegetable crops	To help the farmers to produce their own seed by knowing the detailed procedure such as isolation distance, maturing index, nutrient management, seed extract, drying and storing	3 days	On and off campus	Dr. Sarkar SMS (Hort.)	S.	10	-	-	-	15	-	25
June, 07	Use of organic pesticides and procedure of (neem) organic pesticide preparation	To provide knowledge of indigenous organic-pesticides, procedure of preparation and efficacy	1 day	On campus	Dr. Sarkar SMS (Hort.)	S.	5	5	-	-	10	5	25
July, 07	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	2 days	On and off campus	Dr. Sarkar SMS (Hort.)	S.	8	2	-	-	10	5	25
Aug, 07	Cultivation of off season (early) cole crop	To acquaint farmers about the improved techniques of early season cauliflower	1 day	Off campus	Dr. Sarkar SMS (Hort.)	S.	10	-	-	-	15	-	25
Sept, 07	Management of physiological disorder pests and diseases of cole crops	To identify the pest and diseases and their systematic control	2 days	Off campus	Dr. Sarkar SMS (Hort.)	S.	12	-	-	-	18	-	30
Oct, 07	Seed treatment of potato	To learn the procedure of seed treatment	1 day	Off campus	Dr. Sarkar SMS (Hort.)	S.	10	-	-	-	20	-	30

Nov, 07	Identification of	Farmers will know the	2 days	Off	Dr.	S.	10	-	-	-	20	-	30
	production problem	common pest and diseases,		campus	Sarkar								
	of potato and their	their predisposal factors and			SMS								
	management	their systematic control			(Hort.)								
Dec, 07	Identification of	Provide knowledge to the	2days	Off	Dr.	S.	10	-	-	-	15	-	25
	major insect pest and	farmers, so that they can able	U U	campus	Sarkar								
	diseases of winter	to identify the common pest		1	SMS								
	vegetables (other	and diseases as well as their			(Hort.)								
	than potato)	specific control			, ,								
Feb, 08	Cultivation of	To acquaint farmers about the	2 days	Off	Dr.	S.	10	-	-	-	15	-	25
	Cucurbits	improved techniques of	5	campus	Sarkar								
		cultivation of Cucurbits		1	SMS								
					(Hort.)								
March,	Management of	To identify the pest and	1 day	Off	Dr.	S.	10	-	-	-	15	-	25
08	major pest and	diseases and their specific	5	campus	Sarkar								
	diseases of Cucurbits	control			SMS								
					(Hort.)								

For rural youths

Month	Course Title	Course object	Duration	Venue	Course	No of partici			rticiț	ants		Grand
			(day)		facilitator	SC		S	Т	Others		Total
						Μ	W	Μ	W	Μ	W	
September,	Seedlings production	To raise the healthy	4	On and off	Dr. S. Sarkar	6	5	-	-	10	4	25
07	and nursery	seedlings of		campus	SMS (Hort.)							
	management of	vegetables and										
	vegetable crops	entrepreneurship										
		development										

Training schedule and course of Veterinary Science

For practicing farmers and farm women

Month	Course Title	Course object	Duration	Venue	Course			of pa	rticip	ants		Grand
			(day)		facilitator	S	C	S	Т	Oth	ners	Total
						Μ	W	Μ	W	Μ	W	
March, 07	Care of day old	Farmers will be able to	1	Off	Dr. C. Jana,	3	5		5	4	5	22
	ducklings	take care of their ducklings		campus	SMS							
		in proper ways		-								
April, 07	Care and	Owner can rear ducks with	1	Off	Dr. C. Jana,		10			8	2	20
	management of ducklings	package of practices.		campus	SMS							
May, 07	Heat detection of cow	For ensuring better	1	Off	Dr. C. Jana,	5	5			5	5	20
, - <u>)</u> , -		conception rate		campus	SMS	_				-	_	-
June, 07	Hatching of egg	Practicing farmer can	2	Off	Dr. C. Jana	2	5	4	5	3	5	24
5 /	under broody hen	hatch eggs in their own		campus	,							
	5	house		1								
July,07	Day- old Chicks	To check mortality and	1	Off	Dr. C. Jana	5	5	-	3	2	5	20
	management	ensuring good health		campus								
August, 07	Cattle shed	Farmer will develop	2	Off	Dr. C. Jana,	4	5			5	6	20
(2 nd wk)	disinfection	knowledge and skill		campus	SMS							
. ,	at rainy season	regarding cattle health		-								
September, 07	Procedure of	To support farmer's	2	Off	Dr. C. Jana,	3	3	3	2	4	5	20
(1 st week and	medication for	knowledge about		campus	SMS							
3 rd week	animals	drenching, oral medicine		_								
		application										
October, 07	Procedure of	To support farmer's	2	Off	Dr. C. Jana,	5	3			3	4	15
(1 st week and	medication for birds	knowledge about oral		campus	SMS							
3 rd week)		medicine application										
December, 07	Care of New-born calf	Farmer will develop	2	Off	Dr. C. Jana,	5	10				5	20
(3 rd)		knowledge and skill		campus	SMS							
		regarding care of new born										
		calf										
February	Cultivation	Farmer will have	4	On	Dr. C. Jana,	2				3		5
2008	techniques of Maize,	knowledge about		campus	SMS							
(1 st and 3 rd		cultivation techniques of										
wk)		Maize										

March 2008	Procedure of stool	To learn the scientific	2	off	Dr. C. Jana,	7	3	3	7	20
(1 st wk)	sample collection	procedure of stool sample		campus	SMS					
	from animals	collection from animals								

For rural youths

Month	Course Title	Course object	Duration	Venue	Course		No	of pa	rticip	ants		Grand
			(day)		facilitator	S	C	S	Т	Oth	ners	Total
						Μ	W	Μ	W	Μ	W	
July, 07	Egg pickle	To provide knowledge about	3	on	Dr. C. Jana,	3	4	3	2	9	4	25
	production	preparation methods and		campus	SMS							
		storage										
November,	Broiler	Farmer will develop	3	Off	Dr. C. Jana,	3	4	3	2	9	4	25
07	production	knowledge and skill regarding		campus	SMS							
	techniques	scientific method of broiler										
		production										
January	Broiler shed	To learn the scientific	1	Off	Dr. C. Jana,	10	-	-	-	5	5	20
	disinfection	procedure of maintenance of		campus	SMS							
	procedure	disease free condition in										
		broiler shed										

Training Programme to be conducted during 2007 – 08 on Fishery

For practicing farmers and Farm Women

Qrt	Month	Course Title	Course object	Duration	Venue	Course		No c					Grand
				(day)		facilitator		C		Т		ners	Total
							Μ	W	Μ	W	Μ	W	
Ι	April, 07	Preparation of nursery	To learn preparation of	1	Off	G.	1				11		12
		pond	nursery ponds		campus	Ziauddin,							
						SMS							
					- 11	(Fishery)	_						
II	May, 07	Management of	To learn management	1	Off	G.	2				9		11
		nursery ponds	practices of nursery		campus	Ziauddin,							
			ponds			SMS							
		D 1			011	(Fishery)			-	2	0	_	
II	June ,07	Rearing pond	To learn pond	2	Off	G.	4	3	2	3	8	5	25
		preparation and	preparation and		campus	Ziauddin,							
		management.	management practices			SMS (Eicheana)							
тт	Ord Lalas 07	Delessulture of Indian	of rearing ponds To learn the	1	Off	(Fishery) G.	5	2	4	1	10	3	25
II	3 rd July, 07	Polyculture of Indian		1	-	G. Ziauddin,	5	2	4	1	10	3	25
		major carp and fresh water prawn	management practices of mixed farming of		campus	SMS							
		water plawii	Indian Major carps and			(Fishery)							
			Freshwater Prawn			(Pisitery)							
II	August, 07	Disease management	To learn the symptoms	1	Off	G.	3	4	3	2	9	4	25
	rugust, or	and prophylactic	of common diseases of	Ť	campus	Ziauddin,	0	1	0	-	ĺ	-	20
		measures in composite	fresh water fishes and		cump us	SMS							
		fish culture ponds	their prevention			(Fishery)							
II	August, 07	Induced breeding of	To learn about different	1	Off	G.	5	2	1	4	11	2	25
	0	Indian major carp	aspects of induced		campus	Ziauddin,							
		, 1	breeding in Hapa and		-	SMS							
			Bundh breeding			(Fishery)							
II	September,	Preservation and	To identify the problems	1	Off	G.	3	4	3	2	9	4	25
	07	transport of fish seed	associated with fish seed		campus	Ziauddin,							
			transport and methods			SMS							
			of transportation			(Fishery)							

IV	January, 08	Environmental	To know the effect of	1	Off	G.	3	4	3	2	9	4	25
		consideration in	different environmental		campus	Ziauddin,							
		freshwater	factors in fish culture.			SMS							
		Aquaculture				(Fishery)							
IV	March, 08	Effects of liming in	To know the effect of	1	Off	G.	3	4	3	2	9	4	25
		fish ponds	lime in fish culture.		campus	Ziauddin,							
						SMS							
						(Fishery)							

For rural youth

Qrt	Month	Course	Course object	Duratio	Venue	Course		No o	of pa	rticij	pants	5	Grand
		Title		n (day)		facilitator	S	С	S	Т	Oth	ners	Total
							Μ	W	Μ	W	Μ	W	
II	August	Induced	To learn about different	1	Off	G.	3	4	3	2	9	4	25
	and	breeding of	aspects of induced breeding in		campus	Ziauddin,							
	September,	Indian	Hapa and Bundh breeding		_	SMS							
	07	major carp				(Fishery)							
III	October, 07	Air	Rural youth will be able to	1	Off	G.	3	4	3	2	9	4	25
		breathing	adopt different management		campus	Ziauddin,							
		fish culture	practices in air breathing fish		-	SMS							
			culture			(Fishery)							

Training Programme to be conducted during 2006 – 07on Home Science

For practicing farmers and Farm Women

Qrt	Month	Course Title	Course object	Duration	Venue	Course		No c	f pa	rticip	ants		Grand
				(day)		facilitator	S	С	S	Т	Oth	ners	Total
							Μ	W	Μ	W	Μ	W	
Ι	April 3 rd	Conservation of	Farm women will be able to	1	Off	Sujata Sethy,	-	10	-	-	-	10	20
	07	nutrients during	adopt different nutrient		campus	SMS (Home							
		cooking food.	conservation practices while		_	Science)							
		Ũ	cooking food.										

I	April 12 th 07	Preparation of mixed vegetable pickle.	To provide knowledge about the use of preservatives, preparation methods and storage.	1	Off campus	Sujata Sethy, SMS (Home Science)	-	-	-	-	1	20	21
I	May 14 th 07	Preparation of green mango pickle.	To provide knowledge about the use of preservatives, preparation methods and storage	1	Off campus	Sujata Sethy, SMS (Home Science)	-	6	-	-	7	7	20
Ι	June 7 th 07	Preparation of mango squash.	Farm women will be able to adopt preparation method, preservative use and storage practices of the squash.	1	Off campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	15	25
II	July 07	Preparation of jute handicrafts.	Empowering farm women with knowledge and skill of preparing jute handicrafts.	7	On campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	10	140
П	August 07	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.	4	Off campus	Sujata Sethy, SMS (Home Science)	2	8	-	-	4	11	100
Π	September 07	Effective storage of grain, fruits and vegetables.	To avoid wastage, reduce pest attack and to provide the knowledge about different storage methods of grain, fruits and vegetables.	2	Off campus	Sujata Sethy, SMS (Home Science)	4	7	-	-	2	10	50
III	October 07	Hand embroidery	Empowering farm women with knowledge and skill of preparing hand embroidery.	5	Off campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	10	100
III	November 07	Clean milk production from cattle	To support farm womens' knowledge about the different aspects responsible for clean milk production.	1	Off campus	Sujata Sethy, SMS (Home Science)	2	8	-	-	4	11	25
III	December 07	Preparation of tomato sauce.	To reduce the Utilization of tomato for product development in peak season and providing the knowledge	1	Off campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	15	25

			about tomato sauce preparation.										
IV	January 08	Preparation of kantha stitch	Empowering farm women with knowledge and skill of preparing kantha stitch.	5	Off campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	10	100
IV	February 08	Preservation of egg and meat	To provide the knowledge about the selection of raw materials, preservation and storage of the product.	1	On campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	15	25
IV	March 08	Preparation of guava jam and jelly	To empower farm women with adequate knowledge of preparation method, use of preservative, and end point testing.	2	Off campus	Sujata Sethy, SMS (Home Science)	-	8	-	-	-	17	50

Training Programme to be conducted during 2007 – 08 on Fishery

For practicing farmers and Farm Women

Qrt	Month	Course Title	Course object	Duratio	Train	Venue	Course			No of	f parti	icipants	5	Grand
				n (day)	ee		facilitator	S	С	S	бT	(Others	Total
					day			Μ	W	Μ	W	Μ	W	
Ι	April, 07	Preparation of nursery pond		1		Off campus	G. Ziauddin, SMS (Fishery)	1				11		12
II	May, 07	Management of nursery ponds		1		Off campus	G. Ziauddin, SMS (Fishery)	2				9		11
II	June , 07	Rearing pond preparation and management.		2		Off campus	G. Ziauddin, SMS (Fishery)	4	3	2	3	8	5	25
Π	3 rd July, 07	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)	5	2	4	1	10	3	25
II	August , 07	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)	3	4	3	2	9	4	25
II	August , 07	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)	5	2	1	4	11	2	25
Π	Septem ber, 07	Preservation and transport of fish seed	To identify the problems associated with fish seed transport and methods of transportation	1		Off campus	G. Ziauddin, SMS (Fishery)	3	4	3	2	9	4	25
IV	January, 08	Environmental consideration in freshwater Aquaculture	To know the effect of different environmental factors in fish culture.	1		Off campus	G. Ziauddin, SMS (Fishery)	3	4	3	2	9	4	25
IV	March, 08	Effects of liming in fish ponds	To know the effect of lime in fish culture.	1		Off campus	G. Ziauddin, SMS (Fishery)	3	4	3	2	9	4	25

For rural youth

Qrt	Month	Course Title	Course object	Duration	Trainee	Venue	Course		No	o of pa	articip	ants		Grand
				(day)	day		facilitator	S	С	S	Т	Oth	ers	Total
								Μ	W	Μ	W	Μ	W	
II	August and	Induced breeding	To learn about	1		Off	G. Ziauddin,	3	4	3	2	9	4	25
	September,	of Indian major	different aspects			campus	SMS							
	07	carp	of induced			_	(Fishery)							
		-	breeding in Hapa				,							
			and Bundh											
			breeding											
III	October, 07	Air breathing fish	Rural youth will	1		Off	G. Ziauddin,	3	4	3	2	9	4	25
		culture	be able to adopt			campus	SMS							
			different			-	(Fishery)							
			management				,							
			practices in air											
			breathing fish											
			culture											

Training Programme to be conducted during 2006 – 07on Home Science
For practicing farmers and Farm Women

Qrt	Month	Course Title	Course object	Duratio n (day)	Train	Venue	Course			No of	Grand]			
					ee		facilitator		SC		ST		Others	Total	
					day			Μ	W	М	W	Μ	W		
Ι	April 3 rd 07	Conservation of nutrients during cooking food.	Farm women will be able to adopt different nutrient conservation practices while cooking food.	1		Off campus	Sujata Sethy, SMS (Home Science)	-	10	-	-	-	10	20	
II	April 12 th 07	Preparation of mixed vegetable pickle.	To provide knowledge about the use of preservatives, preparation methods and storage.	1		Off campus	Sujata Sethy, SMS (Home Science)	-	-	-	-	1	20	21	
II	May 14 th 07	Preparation of green mango pickle.	To provide knowledge about the use of preservatives, preparation methods and storage	1		Off campus	Sujata Sethy, SMS (Home Science)		6			7	7	20	
II	June 7 th 07	Preparation of mango squash.	Farm women will be able to adopt preparation method, preservative use and storage practices of the squash.	1		Off campus	Sujata Sethy, SMS (Home Science)			10				15	2:
II	July 07	Preparation of jute handicrafts.	Empowering farm women with knowledge and skill of preparing jute handicrafts.	7		On campus	Sujata Sethy, SMS (Home Science)		10				15	25	
Π	August 07	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.	4		Off campus	Sujata Sethy, SMS (Home Science)	2	8			4	11	25	

III	Septem ber 07	Effective storage of grain, fruits and vegetables.	To avoid wastage, reduce pest attack and to provide the knowledge about different storage methods of grain, fruits and vegetables.	2	Off campus	Sujata Sethy, SMS (Home Science)	4	7	2	10	25
	October 07	Hand embroidery	Empowering farm women with knowledge and skill of preparing hand embroidery.	5	Off campus	Sujata Sethy, SMS (Home Science)		10		15	25
	Novem ber 07	Clean milk production from cattle	To support farm womens' knowledge about the different aspects responsible for clean milk production.	1	Off campus	Sujata Sethy, SMS (Home Science)	2	8	4	11	25
	Decemb er 07	Preparation of tomato sauce.	To reduce the Utilization of tomato for product development in peak season and providing the knowledge about tomato sauce preparation.	1	Off campus	Sujata Sethy, SMS (Home Science)		10		15	25
	January 08	Preparation of kantha stitch	Empowering farm women with knowledge and skill of preparing kantha stitch.	5	Off campus	Sujata Sethy, SMS (Home Science)		10		15	25
	Februar y 08	Preservation of egg and meat	To provide the knowledge about the selection of raw materials, preservation and storage of the product.	1	On campus	Sujata Sethy, SMS (Home Science)		10		15	25
	March 08	Preparation of guava jam and jelly	To empower farm women with adequate knowledge of preparation method, use of preservative, and end point testing.	2	Off campus	Sujata Sethy, SMS (Home Science)		8		17	

KVK BURDWAN

Enterprises	Variety	Season	Area (ha)
Seed production of rice	MTU7029, CR1001	Kharif	2.0
SRI	CR 1001	Kharif	0.3
Seed production of wheat	UP 262	Rabi	0.5
Seed rhizome production of	BH-4	Pre-kharif	0.02
turmeric			
Seed corm production of	Bidhan Kusum and	Pre-kharif	0.01
elephant foot yam and taro	Bidhan Chaitannya		
Seed production of okra	Orka Anamika	Pre-kharif	0.07
Seedlings production of early	Early Kunwari	Kharif	10,000 no.
cauliflower			
Seed corm production of	Different varieties	Rabi	0.02
gladiolus			
Development of progeny orchard	Different fruit crops	Kharif	0.4
Mineral mixture preparation	Cattle	Year-round	20 kg.
Cowpea seed production as	Bundel-2	Rabi	0.05
fodder			
Hybrid Napier fodder	Pusa giant	Year-round	0.05
production			
Fish fry (advanced) production	Rohu, Mrigal	Rainy	1.1 q

Activities in KVK Farm/ Demonstration Units

Extension Activities

Activity	No.	Quarter	Cost involved
			(Rs.)
Field day	5	Year-round	40000
Kisan Mela	1	Rabi	100000
Kisan Gosthi	3	Kharif & Rabi	15000
Farm Science Club	2	Year-round	10000
New paper	10	Year-round	10000
coverage/TV talk			
Video show	2	Kharif & Rabi	5000
Ex-trainees Sammelan	1	Rabi	20000
Publication/distribution	6	Year-round	10000
Health camp	12	Every month	10000
Farmers visit to KVK	12	Every month	1200
Scientists visit to	10	Year-round	5000
farmers field			
	Total	·	2,26,200

S1. No.	Activities	Proposed expenditure (Rs.)
1.	KVK Training	87000.00
2.	On-Farm Trial	83700.00
3.	FLD on oilseeds and pulses	49020.00
4.	FLD other than oilseeds and pulses	75000.00
5.	Extension activities and publication	226200.00
6.	On station trials	30000.00
Total		550920.00

Proposed expenditure for different KVK activities (2007-2008)