

REVISED PROFORMA FOR ACTION PLAN 2019-2020

1. Name of the KVK:

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2. Name of host organization :

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3. Training Programmes to be organized (April 2019 to March 2020)

(a). Farmers / Farm Women:

Thematic Area	Title of the Programme	Venue On/Off	No.	Duration	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Carp Fry and Fingerling Rearing	Scientific Method of Pond Preparation for Fingerling Raising	Off	01	02	April 2019	08	00	12	00	20	00	40	00	40
Cultivation of Vegetables	Improved Package and Practices of Pre-Kharif Seasonal Vegetables	ON	01	02	-do-	00	00	30	00	00	00	30	00	30
Income Generation activities for empowerment of rural women	Training on Preparation of Decorative Ladies Purse and Bags	ON	01	03	-do-	00	06	00	03	00	16	00	25	30
Disease Management	Identification and Control of Disease in Poultry and Their Prophylactic Measures with Special Reference to Bird Flu	ON	01	02	-do-	09	00	12	00	09	00	30	00	30
Group Dynamics	Concept, Formation and Functioning of Joint Liability Group	ON	01	03	-do-	08	02	12	04	04	00	24	06	30

Crop Diversification	Specific Agro technology for cultivation of Ekangi (<i>K. galanga</i>) in rainfed monocropped situation	ON	01	04	May, 2019	09	00	04	00	17	00	30	00	30
Soil Health and Fertility Management	Collection of Soil Sample and Preparation of Soil Sample for Soil Testing and Interpretation	Off	01	04	-do-	11	00	06	00	33	00	50	00	50
IPM	Different Components of IPM, IDM and IWM	ON	01	03	-do-	08	00	12	00	10	00	30	00	30
Composite Fish Culture	Culture of Bhetki (<i>Lates calcarifer</i>) along with IMC and Exotic Carps	Off	01	04	-do-	07	00	03	00	20	00	30	00	30
Composite Fish culture	Cage Culture of Magur, Singhi, Koi along with Composite Fish Culture	ON	01	03	-do-	08	00	12	00	10	00	30	00	30
Women and child care	Care and Management of Pregnant Mothers	Off	01	01	-do	00	15	00	05	00	30	00	50	50
Disease Management	Reduction of Treatment Cost by Use of Indigenous Technology and Knowledge (ITK)	ON	01	02	-do-	09	00	15	00	06	00	30	00	30
Market led Extension	Formation of Farmers Producers Organization (FPO)	ON	01	02	-do-	08	00	12	00	10	00	30	00	30
Institutional Credit Supply	Mechanism and Use of Kisan Credit Card (KCC)	Off	01	03	-do-	11	00	20	00	19	00	50	00	50
Resource Conservation Technology	Direct seeding technologies of rice	ON	01	04	June, 2019	10	00	05	00	15	00	30	00	30
Cultivation of Vegetables	Improved Package and Practices of Kharif Seasonal Vegetables	ON	01	02	-do-	00	00	30	00	00	00	30	00	30
IPM	Integrated Pest, Disease and Weed Management in <i>Kharif</i> Paddy (Phase – I)	ON	01	03	-do-	07	00	15	00	08	00	30	00	30

Composite Fish Culture	Preparation and Management of rearing and stocking Pond for Composite Fish Culture	ON	01	04	-do-	07	00	15	00	08	00	30	00	30
Household Food Security	Nutrition Gardening	ON	01	02	-do-	00	05	00	25	00	00	00	30	30
Feed management	Low Cost Feed Preparation For Poultry	ON	01	04	-do-	09	00	15	00	06	00	30	00	30
Group Dynamics (Farmers' Organization)	Formation of Farmers' Club	Off	01	02	-do-	12	00	20	00	18	00	50	00	50
Group Dynamics (Farmers' Organization)	Formation of Farmers' Interest Groups	Off	01	02	-do-	12	00	20	00	18	00	50	00	50
Soil Health Management	Green manuring with <i>Dhiancha</i> and <i>Azolla</i> in Kharif Paddy	ON	01	04	July, 2019	09	00	06	00	15	00	30	00	30
Seed Production	Participatory Paddy Seed Production Technologies in Kharif (Phase – I)	ON	01	03	-do-	09	00	06	00	15	00	30	00	30
IPM	Integrated Pest, Disease and Weed Management In <i>Kharif</i> Paddy (Phase – II)	ON	01	03	-do-	08	00	12	00	10	00	30	00	30
Women and child care	Nutritional Requirement of Pre-School Children	Off	01	01	-do-	00	20	00	20	00	10	00	50	50
Dairy Management	Establish, Maintenance and Management of Small Scale Dairy Unit	ON	01	04	-do-	05	00	10	00	10	00	25	00	25
Management in Farm Animal	Back Yard Farming Improvement with Utilization of Natural Resources	ON	01	02	-do-	08	00	12	00	10	00	30	00	30
Insurance	Evolution of Crop Insurance (CI) and Pradhan Mantri Fasal Bima Yojona (PMFBY)	ON	01	02	-do-	10	00	12	00	08	00	30	00	30
Soil Health and Fertility Management	Nutrient Management in Rice according to Soil Health Card	ON	01	04	Aug ust, 2019	08	00	06	00	16	00	30	00	30

IPM	Pest and Disease Management in Early Rabi Vegetables	Off	01	03	-do-	10	00	20	00	20	00	50	00	50
Fish feed preparation and application	Preparation of Balanced Fish Feed from Low Cost Ingredients	ON	01	04	-do-	05	00	12	00	13	00	30	00	30
Quail Farming	Quail Farming-Alternate Livelihood Programme	ON	01	01	-do-	09	00	12	00	09	00	30	00	30
Awareness Generation on Nutrition	Design of Low Cost, High Nutritious Diet for Vulnerable Group	Off	01	01	-do-	00	15	00	20	00	15	00	50	50
Disaster Management	Disaster Management with Special Reference to Agriculture and Related Sectors	ON	01	03	-do-	10	00	12	00	08	00	30	00	30
Market led Extension	Marketing Information and Market Linkage of Vegetable Farmers	ON	01	03	-do-	10	00	12	00	08	00	30	00	30
Seed Production	Participatory Paddy Seed Production Technologies in Kharif (Phase – II)	ON	01	03	Sept emb er, 2019	09	00	06	00	15	00	30	00	30
Management of Problematic Soil	Acid Soil Management in Rabi Seasonal Vegetables	ON	01	02	-do-	00	00	30	00	00	00	30	00	30
IPM	Pest, Disease Management on Rabi Seasonal Oil Seeds and Pulses	Off	01	03	-do-	10	00	20	00	20	00	50	00	50
Duck Farming	Duck rearing and Its Management both for Meet and Egg Purpose	Off	01	02	-do-	00	14	00	20	00	16	50	00	50
Income Generation activities for empowerment of rural women	Training on Batik Work	ON	01	07	-do-	00	08	00	00	00	12	00	20	20
Hatchery Management and Culture of Fresh Water Prawn	Fresh Water Giant Prawn Culture with Indian Major Carps (IMC) and Exotic Carps	ON	01	05	-do-	09	00	12	00	09	00	30	00	30

Composite Fish Culture and Fish Disease	Improved Disease Management Practices in Fresh Water Aquaculture	ON	01	03	-do-	07	00	15	00	08	00	30	00	30
Market Led Extension	Marketing Information and Market Linkage of Pulse and Oilseed Farmers	ON	01	03	-do-	10	00	12	00	08	00	30	00	30
IPM	IPM on Solanaceous Crops	ON	01	03	October, 2019	08	00	12	00	10	00	30	00	30
Goat Farming	Scientific Black Bengal Goat Rearing	Off	01	02	-do-	14	00	20	00	16	00	50	00	50
Integrated Fish Farming System	Integrated Fish Farming	ON	01	04	-do-	08	00	12	00	10	00	30	00	30
Integrated Farming System	Role of Animal Husbandry in Integrated Farming	ON	01	01	-do-	08	00	12	00	10	00	30	00	30
WTO and TRIPS Related Issues	Protection of Plant Varieties and Farmers' Rights Act (PPV & FRA) -2001	Off	01	02	-do-	12	00	20	00	18	00	50	00	50
IPM	IPM on Wheat, Sugarcane and High Value Vegetables like Broccoli, Capsicum etc.	Off	01	03	November, 2019	10	00	20	00	20	00	50	00	50
Piggery Management	Scientific Piggery Management with special reference to <i>Ghungroo</i> Breed	Off	01	02	-do-	15	00	30	00	05	00	50	00	50
Carp Fry and Fingerling Rearing	Scientific Method of Carp Fry and Fingerling Rearing	ON	01	04	-do-	06	00	11	00	13	00	30	00	30
Feed Management	Quality Fodder Cultivation	ON	01	01	December, 2019	09	00	12	00	09	00	30	00	30
Production of Bio-Pesticides and Seed Treatment of Various Crops	Identification of Different Bio Pesticides and Seed Borne Diseases and their Treatments	ON	01	03	-do-	08	00	12	00	10	00	30	00	30
Group Dynamics (Micro Finance)	Formation of Farmers' Producers' Organizations (FPOs) based on successful and functional Self Help Groups (SHGs)	Off	01	03	-do-	15	00	20	00	15	00	50	00	50

Insurance	Concept, Functioning and Use of Pradhan Mantri Fasal Bima Yojana (PMFBY)	ON	01	02	-do-	10	00	12	00	08	00	30	00	30
IPM	IPM in Summer Vegetable	Off	01	03	January, 2020	10	00	20	00	20	00	50	00	50
Disease Management	Identification and Control of Diseases in Dairy Animals with their Prophylactic Measures	ON	01	02	-do-	09	00	12	00	09	00	30	00	30
Composite Fish Culture and Fish Disease	Prevention and Control Method of Various Fish Diseases	ON	01	03	-do-	08	00	15	00	07	00	30	00	30
Management of FPOs and SHGs	Development of Marketing Channel for FPOs and SHGs Products	Off	01	02	-do-	14	00	20	00	16	00	50	00	50
Seed Production	Seed Production Technologies of Black Gram and Green Gram in Summer Season	ON	01	04	February, 2020	08	00	05	00	17	00	30	00	30
IPM	Pest, Disease Management on Summer Pulses and Oil Seeds and Different Fruit Crops	Off	01	03	-do-	10	00	20	00	20	00	50	00	50
Sheep Farming	Improvement of Sheep Husbandry	ON	01	02	-do-	09	00	12	00	09	00	30	00	30
Entrepreneurship Development	Development Of Farmers Club As Business Facilitators (BF)	ON	01	02	-do-	08	00	12	00	10	00	30	00	30

(b) Rural Youths

Thematic Area	Title of the Programme	Venue (On/ Off)	No.	Duration	Tentative date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Carp Breeding and Hatchery Management	Induced Breeding and Carp Seed Production	ON	01	30	July, 2019	06	00	03	00	12	00	21	00	21
Dairying	Improvement of Dairy Farming	ON	01	30	August, 2019	06	00	09	00	06	00	21	00	21
Mushroom Production	Mushroom Cultivation	ON	01	21	September, 2019	05	00	10	00	10	00	25	00	25
Production of Organic Inputs	Preparation and use of Organic Inputs	ON	01	21	November, 2019	06	00	04	00	15	00	25	00	25

(c). Extension Functionaries

Thematic Area	Title of the Programme	Venue (On/ Off)	No.	Duration	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Productivity Enhancement in Field Crops.	Acid Soil Management to boost up crop productivity	ON	01	01	July, 2019	04	00	04	00	17	00	25	00	25
Integrated Pest Management (IPM)	IPM in Major Field Crops – An Idea	ON	01	01	August, 2019	05	00	10	00	10	00	25	00	25
Management of Farm Animals	Refreshment Training for “Pranibandhus” and “Pranimitras”	ON	01	01	-do-	09	00	12	00	09	00	30	00	30
Crop Diversification	Increasing farmers’ income through Pulse Cultivation	ON	01	01	-do-	04	00	04	00	17	00	25	00	25
Management of Farm Animals	Genetic Resource Conservation of Domestic Animals and Poultry	ON	01	01	February, 2020	05	00	10	00	10	00	25	00	25

Abstract of Training: Consolidated table (ON and OFF Campus)

Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
I. Crop Production														
Weed Management														
Resource Conservation Technologies	1	15	0	15	10	0	10	5	0	5	30	0	30	
Cropping Systems														
Crop Diversification	1	17	0	17	9	0	9	4	0	4	30	0	30	
Integrated Farming														
Water management														
Seed production	3	47	0	47	26	0	26	17	0	17	90	0	90	
Nursery management														
Integrated Crop Management														
Fodder production														
Production of organic inputs														
Others, (cultivation of crops)														
TOTAL	5	79	0	79	45	0	45	26	0	26	150	0	150	
II. Horticulture														
a) Vegetable Crops														
Integrated nutrient management														
Water management														
Enterprise development														
Skill development														
Yield increment														
Production of low volume and high value crops														
Off-season vegetables														
Nursery raising														
Exotic vegetables like Broccoli														
Export potential vegetables														
Grading and standardization														
Protective cultivation (Green Houses, Shade Net etc.)														
Others, if any (Cultivation of Vegetable)	2	0	0	0	0	0	0	60	0	60	60	0	60	
TOTAL	2	0	0	0	0	0	0	60	0	60	60	0	60	
b) Fruits														
Training and Pruning														
Layout and Management of Orchards														
Cultivation of Fruit														
Management of young plants/orchards														
Rejuvenation of old orchards														
Export potential fruits														
Micro irrigation systems of orchards														
Plant propagation techniques														
Others, if any(INM)														
TOTAL														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
c) Ornamental Plants														
Nursery Management														
Management of potted plants														
Export potential of ornamental plants														
Propagation techniques of Ornamental Plants														
Others, if any														
TOTAL														
d) Plantation crops														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
e) Tuber crops														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
f) Spices														
Production and Management technology														
Processing and value addition														
Others, if any														
TOTAL														
g) Medicinal and Aromatic Plants														
Nursery management														
Production and management technology														
Post harvest technology and value addition														
Others, if any														
TOTAL														
III. Soil Health and Fertility Management														
Soil fertility management	3	64	0	64	28	0	28	18	0	18	110	0	110	
Soil and Water Conservation														
Integrated Nutrient Management														
Production and use of organic inputs														
Management of Problematic soils	1	0	0	0	0	0	0	30	0	30	30	0	30	
Micro nutrient deficiency in crops														
Nutrient Use Efficiency														
Soil and Water Testing														
Others, if any														
TOTAL	4	64	0	64	28	0	28	48	0	48	140	0	140	
IV. Livestock Production and Management														
Dairy Management	1	10	0	10	5	0	5	10	0	10	25	0	25	
Poultry Management														
Piggery Management	1	5	0	5	15	0	15	30	0	30	50	0	50	

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Rabbit Management														
Disease Management	3	24	0	24	27	0	27	39	0	39	90	0	90	
Feed management	2	15	0	15	18	0	18	27	0	27	60	0	60	
Production of quality animal products														
Others, if any (Goat farming)	1	16	0	16	14	0	14	20	0	20	50	0	50	
Integrated farming system	1	10	0	10	8	0	8	12	0	12	30	0	30	
Quail farming	1	9	0	9	9	0	9	12	0	12	30	0	30	
Sheep farming	1	20	0	20	10	0	10	20	0	20	50	0	50	
Duck farming	1	16	0	16	14	0	14	20	0	20	50	0	50	
Management in farm animal	1	10	0	10	8	0	8	12	0	12	30	0	30	
TOTAL	13	135	0	135	128	0	128	202	0	202	465	0	465	
V. Home Science/Women empowerment														
Household food security by kitchen gardening and nutrition gardening	1	0	0	0	0	5	5	0	25	25	0	30	30	
Design and development of low/minimum cost diet														
Designing and development for high nutrient efficiency diet														
Minimization of nutrient loss in processing														
Gender mainstreaming through SHGs														
Storage loss minimization techniques														
Enterprise development														
Value addition														
Income generation activities for empowerment of rural Women	2	0	28	28	0	14	14	0	3	3	0	45	45	
Location specific drudgery reduction technologies														
Rural Crafts														
Capacity building														
Women and child care	2	0	40	40	0	35	35	0	25	25	0	100	100	
Others, if any (Awareness generation on nutrition)	1	0	15	15	0	15	15	0	20	20	0	50	50	
TOTAL	6	0	83	83	0	64	64	0	48	48	0	195	195	
VI. Agril. Engineering														
Installation and maintenance of micro irrigation systems														
Use of Plastics in farming practices														
Production of small tools and implements														
Repair and maintenance of farm machinery and implements														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Small scale processing and value addition														
Post Harvest Technology														
Others, if any														
TOTAL														
VII. Plant Protection														
Integrated Pest Management	9	138	0	138	81	0	81	151	0	151	370	0	370	
Integrated Disease Management														
Bio-control of pests and diseases														
Production of bio control agents and bio pesticides	1	10	0	10	8	0	8	12	0	12	30	0	30	
Others, if any														
TOTAL	10	148	0	148	89	0	89	163	0	163	400	0	400	
VIII. Fisheries														
Integrated fish farming	1	10	0	10	8	0	8	12	0	12	30	0	30	
Carp breeding and hatchery management														
Carp fry and fingerling rearing	2	33	0	33	14	0	14	23	0	23	70	0	70	
Composite fish culture & fish disease	5	53	0	53	37	0	37	60	0	60	150	0	150	
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond	1	13	0	13	5	0	5	12	0	12	30	0	30	
Hatchery management and culture of freshwater prawn	1	9	0	9	9	0	9	12	0	12	30	0	30	
Breeding and culture of ornamental fishes														
Portable plastic carp hatchery														
Pen culture of fish and prawn														
Shrimp farming														
Edible oyster farming														
Pearl culture														
Fish processing and value addition														
Others, if any														
TOTAL	10	118	0	118	73	0	73	119	0	119	310	0	310	
IX. Production of Inputs at site														
Seed Production														
Planting material production														
Bio-agents production														
Bio-pesticides production														
Bio-fertilizer production														
Vermi-compost production														
Organic manures production														
Production of fry and fingerlings														
Production of Bee-colonies and wax sheets														
Small tools and implements														
Production of livestock feed and fodder														
Production of Fish feed														
Others, if any														
TOTAL														
X. Capacity Building and Group														

Thematic Area	No. of Courses	No. of Participants									Grand Total			
		Other			SC			ST			M	F	T	
		M	F	T	M	F	T	M	F	T				
Dynamics														
Leadership development														
Group dynamics	4	55	0	55	47	2	49	72	4	76	174	6	180	
Formation and Management of SHGs	1	16	0	16	14	0	14	20	0	20	50	0	50	
Mobilization of social capital														
Entrepreneurial development of farmers/youths	1	10	0	10	8	0	8	12	0	12	30	0	30	
WTO and IPR issues	1	18	0	18	12	0	12	20	0	20	50	0	50	
Others, if any (Market led extension)	3	26	0	26	28	0	28	36	0	36	90	0	90	
Disaster Management	1	8	0	8	10	0	10	12	0	12	30	0	30	
Insurance	1	8	0	8	10	0	10	12	0	12	30	0	30	
Institutional Credit Supply	1	19	0	19	11	0	11	20	0	20	50	0	50	
TOTAL	13	160	0	160	140	2	142	204	4	208	504	6	510	
XI Agro-forestry														
Production technologies														
Nursery management														
Integrated Farming Systems														
TOTAL														
XII. Others (Pl. Specify)														
TOTAL	63	704	83	787	503	71	574	822	77	899	2029	231	2260	

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Mushroom Production	1	10	0	10	5	0	5	10	0	10	25	0	25
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs	1	15	0	15	6	0	6	4	0	4	25	0	25
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Value addition													
Production of quality animal products													
Dairying	1	6	0	6	6	0	6	9	0	9	21	0	21
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (Carp breeding and Hatchery management)	1	12	0	12	6	0	6	3	0	3	21	0	21
TOTAL	4	43	0	43	23	0	23	26	0	26	92	0	92

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST			M	F	T
		M	F	T	M	F	T	M	F	T			
Productivity enhancement in field crops	1	17	0	17	4	0	4	4	0	4	25	0	25
Integrated Pest Management	1	10	0	10	5	0	5	10	0	10	25	0	25
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													

Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals	2	19	0	19	14	0	14	22	0	22	55	0	55
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any (Crop diversification)	1	17	0	17	4	0	4	4	0	4	25	0	25
TOTAL	5	63	0	63	27	0	27	40	0	40	130	0	130

3. Frontline demonstration to be conducted

FLD-1:

Crop: Green Manuring with Azolla

Thrust Area: Soil Management

Thematic Area: Soil health and fertility management

Season: Pre-kharif, 2019

Farming Situation: Medium to low land with sandy loam soil

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Azolla in Kharif paddy	20 ha	Green manuring in kharif paddy	Growth, yield and economics of kharif paddy cultivation, Soil O.C status	Azolla Culture	30000	-	40	0	10	0	25	0	75	0	75

FLD-2:

Crop: Ekangi (*Kaempheria galanga*)

Thrust Area: Crop Diversification

Thematic Area: Crop Diversification

Season: Pre-kharif, 2019

Farming Situation: Medium to Up land with sandy loam soil, monocropped area

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
2	Ekangi	0.26 ha	Improved planting material with cultivation methods	Growth, yield and economics of Ekangi cultivation	Rhizomes of Ekangi	20000	-	10	0	5	0	5	0	20	0	20

FLD-3:**Crop:** Kharif Rice**Thrust Area:** Production Technology**Thematic Area:** Weed Management**Season:** Kharif, 2019**Farming Situation:** Medium to Low land with sandy loam soil

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
3	Paddy	20 ha	Metsulfuron-methyl +chlorimuron-ethyl @ 4 g a.i /ha at 7-12 DAT	Growth, yield and economics of Kharif paddy cultivation	Herbicide	15000	30000	30	0	10	0	20	0	60	0	60

FLD-4:**Crop:** Elephant Foot Yam**Thrust Area:** Crop Diversification**Thematic Area:** Varietal replacement**Season:** Kharif, 2019**Farming Situation:** Medium to up land with sandy loam soil, monocropped area

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
4	Elephant Foot Yam	0.14 ha	Improved variety Bidhan Kusum	Corn size, yield and economics	Corn of EFY	25000	10000	10	0	5	0	5	0	20	0	20

FLD-5:**Crop:** Drum Stick**Thrust Area:** Crop Diversification**Thematic Area:** Varietal replacement**Season:** Kharif, 2019**Farming Situation:** up land with sandy loam soil

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
5	Paddy	2000 seeds	PKM-1 variety	Growth, yield and economics	Seeds of drumstick	12000	6000	30	0	10	0	20	0	60	0	60

FLD-6:**Crop:** Fish**Thrust Area:** Improved Fish Production**Thematic Area:** Feed Management**Season:** Kharif, 2019**Farming Situation:** Medium to Low land with sandy loam soil

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
6	Indian major carps and exotic carps	1.33 ha	Inclusion of Yeast and Cobalt Chloride in Fish Feed (Rice Bran + Mustard Cake)	Survival rate, yield and economics	Yeast, cobalt chloride, rice bran, mustard cake	15000	9000	6	0	2	0	2	0	10	0	10

FLD-7:**Crop:** Fish**Thrust Area:** Improved Fish Production**Thematic Area:** Crop Diversification**Season:** Kharif, 2019**Farming Situation:** Medium to Low land with sandy loam soil

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
7	Bhetki in composite fish culture	1.33 ha	Introduction of Bhetki in composite fish culture	yield and economics	Bhetki fingerling) (<i>Lates calcarifer</i>)	12000	-	6	0	2	0	2	0	10	0	10

FLD-8:**Crop:** Blackgram**Thrust Area:** Pulse Production Technology**Thematic Area:** Weed Management**Season:** Summer, 2020**Farming Situation:** Irrigated Medium Land with sandy loam soil

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
8	Blackgram	10 ha	Post emergence herbicide	Weed population, growth, yield and economics of Blackgram	Fenoxapro p-P-ethyl @60 ml a.i/ha	10000	25000	40	0	10	0	30	0	80	0	80

FLD-9:**Crop:** Poultry**Thrust Area:** Improved Live Stock Production**Thematic Area:** Broiler Management**Season:** Post Kharif, 2019**Farming Situation:** Deep litter farming system

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
9	Poultry	30 unit	Supplement with water sanitizer in Broiler Production	FCR, Mortality and economics	Water sanitizer	15000	-	15	0	5	0	10	0	30	0	30

FLD-10:**Crop:** Goat**Thrust Area:** Improved Live Stock Production**Thematic Area:** Nutrient Management**Season:** Kharif, 2019**Farming Situation:** Semi Intensive system

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
10	Goat	10 unit	Calcium Supplementation in Black Bengal Does after kidding	FCR, Mortality and economics	Water sanitizer	8000	-	6	0	2	0	2	0	10	0	10

FLD-11:**Crop:** Poultry**Thrust Area:** Improved Live Stock Production**Thematic Area:** Diversification in live stock production**Season:** Post Kharif, 2019**Farming Situation:** Deep Litter System

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
11	Quail	20 unit (30 no. of birds per unit)	Japanese Quail	Growth, Body weight and economics	Japanese Quail		-	12	0	4	0	4	0	20	0	20

FLD-12:**Crop:** Backyard Nutrition Garden**Thrust Area:** Women empowerment**Thematic Area:** Nutrition Management**Season:** Rabi, 2019**Farming Situation:** Irrigated medium land situation

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
12	Backyard Nutrition Garden	0.2 ha	Improved high yielding varieties of rabi vegetables	Yield and economics	Seeds of vegetables	15000	5000	15	0	5	0	10	0	30	0	30

FLD-13:**Crop:** Backyard Nutrition Garden**Thrust Area:** Women empowerment**Thematic Area:** Nutrition Management**Season:** Rabi, 2019**Farming Situation:** Irrigated medium land situation

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
13	Backyard Nutrition Garden	0.2 ha	Improved high yielding varieties of rabi vegetables	Yield and economics	Seeds of vegetables	15000	5000	15	0	5	0	10	0	30	0	30

FLD-14:**Crop:** Fodder + Pulses intercropping**Thrust Area:** Production Technology**Thematic Area:** Cropping System**Season:** Rabi, 2019**Farming Situation:** Irrigated medium land situation

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
14	Oat var kent + Lentil var. WBL-77	2 ha	Fodder (Oat) + Pulse (Lentil) intercropping	Yield and economics	Seeds of vegetables	15000	5000	8	0	3	0	4	0	15	0	15

FLD-15:**Crop:** Participatory video making**Thrust Area:** Empowerment of marginalize section**Thematic Area:** Group dynamics**Season:** Rabi, 2019**Farming Situation:** -Intensive cropping system

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
15	Participatory video making	10 no.	Participatory video making on management of seed production units of cereals and pulses	-	Video making	3000.00	-	5	0	3	0	2	0	10	0	10

FLD-16:**Crop:** Fodder**Thrust Area:** Animal health**Thematic Area:** Feed Management**Season:** Kharif, 2019**Farming Situation:** - Rainfed upland-medium land

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
16	Maize Rice bean Oat	1.8 ha 1.25 ha 1.0 ha	Improved Var, J 1106 Bidhan-2 Kent	Yield, economics Yield, economics Yield, economics	Seed Seed Seed	Collaborative - do- 5000.00	-	10	0	5	0	5	0	20	0	20
								10	0	5	0	5	0	20	0	20
								5	0	5	0	5	0	15	0	15
								-	-	-	-	-	-	-	-	-

NOTE: CFLD on Pulses and Oilseeds will be conducted as per allotment from ICAR-ATARI, Kolkata

Extension and Training activities under FLD:

Activity	Title of the activity	Venue (On/Off)	No.	Duration	Clientle	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Layout and Planting of Elephant's Foot Yam including Management of Crop Field.	ON	01	04	PF	07	00	03	00	15	00	25	00	25
Training	Procedures of Use of Yeast + Cobalt Chloride in Fish Feed	ON	01	04	PF	03	00	05	00	02	00	10	00	10
Training	Fodder Cultivation	ON	01	02	PF	03	00	06	00	06	00	15	00	15
Training	Establishment of Back Yard Nutrition Garden	ON	01	01	PF	00	05	00	20	00	05	00	30	30
Training	Cultivation of Barmasia Drumstick Var. PKM – 1	ON	01	03	PF	12	00	08	00	20	00	40	00	40
Training	Scientific Dairy Management with Especial Reference to Nutritional Aspects	ON	01	08	PF	03	00	04	00	03	00	10	00	10

Training	Formation of Self Help Groups for Accumulation of Social Capital and Increasing the Family Income	ON	03	01	PF	12	08	20	10	07	03	39	21	60
Training	Low Cost Concentrate Preparation	ON	01	02	PF	03	00	06	00	06	00	15	00	15
Training	Techniques of Breed Up Gradation of Ducks	ON	01	01	PF	08	00	12	00	10	00	30	00	30
Training	Land Preparation and Sowing of Wheat	ON	01	04	PF	08	00	03	00	14	00	25	00	25
Training	Production Practices of different Improved Green Fodder Crops	ON	01	01	PF	04	00	04	00	12	00	20	00	20
Training	Introduction of with Bhetki (<i>Lates calcarifer</i>) in Composite Fish Culture	ON	01	04	PF	03	00	05	00	02	00	10	00	10

4. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the Crop / Enterprise	Variety / Type	Period From..... to	Area (ha.)	Details of Production				
				Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	Rani Dhan, IET-4786, IR-36	July- November,19	2 ha	Seed	80 q	15000.00	32000.00	17000.00
Blackgram	WBU-109	August- October,19	0.33 ha	Seed	3 q	8000.00	30000.00	22000.00
Greengram	IPM-02-3	February- May,20	0.33 ha	Seed	3 q	8000.00	30000.00	22000.00
Lentil	WBL-77	October- January, 20	0.33 ha	Seed	2.5 q	9000.00	30000.00	21000.00
Mustard	B-9, JD-6	October- January,20	0.5 ha	Seed	4 q	10000.00	40000.00	30000.00
Sesame	Sabitri	February- May,20	0.5 ha	Seed	4 q	10000.00	40000.00	30000.00
Ekangi	<i>K. galanga</i>	May 19- January, 20	0.02 ha	Rhizome	2.5 q	5000.00	25000.00	20000.00
Azolla	<i>A. pinnata</i>	May- August,19	-	Azolla culture	5.0 q	5000.00	25000.00	20000.00
Elephant Foot Yam	Bidhan Kusum	May- January,20	0.027 ha	Corm	1.5 q	5000.00	15000.00	10000.00
Vermicompost	-	May,19- March,20	-	Organic inputs	15 q	5000.00	15000.00	10000.00
Earth worms	-	May,19- March,20	-	Bio agents	5000	500.00	2500.00	2000.00
Veg. Seedlings	Brinjal, Tomato, Chilli, capsicum, cabbage, cauliflower, broccoli etc	September- March,20	-	Seedlings	50000	50000.00	200000.00	150000.00

b) Village Seed Production Programme

Name of the Crop / Enterprise	Variety / Type	Period From..... to	Area (ha.)	No. of farmers	Details of Production				
					Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	MTU-7029, IR – 36, IET – 4786, GB – 1, MTU – 1010	July- December,19	48 ha	60	Seed	240.00	3,36,000.00	7,20,000.00	3,84,000.00
Black Gram	WBU – 109, PU -31 WBU – 108	August- November,19	29 ha	70	Seed	318.00	1,45,000.00	25,44,000.00	23,99,000.00
Sesame	Sabitri	February- May,20	41 ha	100	Seed	410.00	2,50,000.00	32,80,000.00	30,30,000.00
Green Gram	Samrat, Panna, IPM- 02-3	February- May,20	25 ha	60	Seed	266.00	1,75,000.00	19,53,000.00	21,28,000.00

5. Extension Activities

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	19	480	180	660	52	50	21	71	530	201	731
KisanMela	01	180	145	325	58	15	03	18	195	148	343
KisanGhoshthi											
Exhibition											
Film Show	01	105	25	130	51	05	02	07	110	27	137
Method Demonstrations											
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered as resource persons											
Advisory Services through Kisan Mobile SMS Services	12	5000	2000	7000	50	60	12	72	5060	2012	7072
Scientific visit to farmers field	37	175	110	285	50	50	25	75	225	135	360
Farmers visit to KVK	124	259	159	418	31	106	48	154	365	207	572
Diagnostic visits											
Exposure visits	6	260	105	365	40	10	03	13	270	118	388
Ex-trainees Sammelan											
Soil health Camp											
Animal Health Camp	2	46	38	84	54	8	4	12	54	42	96
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (specify) (Soil Health Day)	01	70	34	104	51	04	02	06	74	36	110
Sankalp Se Siddhi											
Swatchta Hi Sewa											
MahilaKisan Divas	01	00	51	51	61	04	02	06	04	53	57
Any Other (Specify) Awareness Camp	01	52	09	61	51	05	02	07	57	11	68
Any Other (Specify)											
Total	205	6627	2856	9483		317	124	441	6944	2980	9924

6. Revolving Fund (in Rs. Lakh)

Opening balance of 2019-2020 (As on 01.04.2019)	Amount proposed to be invested during 2019-2020	Expected Return
3.2193938	1.89	2.70

7. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Farmers Scientists Interaction on Kharif Cultivation	ATMA, Birbhum	0.20 Lakh
Farmers Scientists Interaction on Rabi-Summer Crops	ATMA, Birbhum	0.20 Lakh
Farmers Scientists Interaction on Integrated Farming System	ATMA, Birbhum	0.20 Lakh

9. On-farm trials to be conducted

OFT-1

Season	Rabi, 2019-20
Title:	Assessment of liming dose in profitable manners in increasing productivity of Garden Pea
Problem diagnosed:	Due to lower soil pH (higher acidity), less flower and pod formation of Garden Pea is being noticed. According to farmers' practice, application of lime is not being performed. So yield of Garden Pea is low.
Hypothesis:	Application of proper liming materials may increase the nodulation, flower set, yield and net return of the cultivation of Garden Pea.
Micro farming situation:	Garden Pea is cultivated in irrigated medium land situation in sandy loam soil with lower pH.
Farmers practice:	Farmers are now cultivating Garden Pea with improved variety and recommended fertilizer dose but without any use of liming materials.
Production system	Paddy – Mustard
Thematic area	Soil Health Management
Objective:	To study the effects of different liming materials according to soil pH. For increasing the productivity and income from Garden Pea cultivation.
Sowing time:	October – November, 2019.
Variety to be used:	Arkel
Details of technology assessment	Farmers' Practice : No liming
	Technology Option - I : Lime as per soil testing
	Technology Option - II : Lime @ 10% of the Lime requirement as per soil testing
	Technology Option - III : Lime @ 20% of the Lime requirement as per soil testing
	(N. B.: - Recommended fertilizer dose will be applied in all the Technology Options including the Farmers' Practice.)

Source of Technology	Managing Acid Soils for enhancing Productivity, P. D. Sharma and A. K. Sarkar (2005), Division of Natural Resource Management (NRM), Indian Council of Agricultural Research (ICAR), Krishi Anusandhan Bhawan – II, Pusa, New Delhi and published by the Director, ICAR-NBSS&LUP, Nagpur, Maharashtra.
No. of replication:	05 (05 nos. of farmers)
Plot size (each replication/ farmers):	0.13 ha
Total plot size:	0.65 ha
Critical input:	a) KVK share: Liming materials, Seeds, fertilizers, Soil Testing b) Farmers' share: Plant protection chemicals and Labours
Performance/Monitoring indicator:	Soil pH status at initial stage and at harvest of Garden Pea crop, Nos. of flowers of Garden Pea, Yield of Garden Pea and Net Return fro cultivation of Garden Pea.
Approximate cost shared by KVK for limes. seeds, fertilizer, soil testing etc.	Rs.10,000.00

OFT-2

Season	Post Kharif, 2019
Title:	Assessment of different micronutrients on productivity of Sesame in post rainy season
Problem diagnosed:	Low crop productivity due to low flower set and low pod filling of sesame in post rainy season
Hypothesis:	Proper micronutrient application may increase the flower set, pod filling, yield and net return of sesame cultivation in post rainy season
Micro farming situation:	In the post rainy season i.e in the month of August-September, sesame is cultivated in rainfed medium to upland situation instead of kharif rice. Soil is sandy loam in texture having P ^H 5.8-6.2
Farmers practice:	Farmers are recently cultivating sesame as diversified crop in post rainy season in rainfed situation with little amount of NPK fertilizers.
Production system	Rice-fallow, sesame-fallow
Thematic area	Nutrient Management
Objective:	To study the effects of micronutrient for enhancement the yield and net return in oilseeds cultivation in post rainy season
Sowing time:	August-September, 2019
Variety to be used:	Sabitri
Details of technology assessment	Farmers' Practice : NPK @ 30-15-15 kg/ha Technology Option - I : General recommendation (50-25-25 kg/ha) of NPK and spray of Zn , B and Mo Technology Option - II : Soil Testing based NPK and Spraying of Zn, B and Mo Technology Option - III : Soil Testing based NPK and soil application of Zn, B and Mo
Source of Technology	M. Sc. and Ph. D. thesis of Soil Science and Agronomy Departments, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati during the period of the years of 2010-2016.
No. of replication:	10 (10 nos. of farmers)
Plot size (each replication/ farmers):	0.13 ha
Total plot size:	1.33 ha
Critical input:	a) KVK share: Seeds, fertilizers, micronutrients b) Farmers' share: Plant protection chemicals
Performance/Monitoring indicator:	Soil nutrient status at initial & at harvest, no. of flowers, Yield and net return.

Approximate cost shared by KVK for seeds, fertilizer etc.	Rs.15,000.00
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OFT – 3

Season	Summer, 2020
Title	Assessment of insecticide efficiency to control thrips in summer green gram.
Problem Diagnosed	Flower drop is a common phenomenon in summer pulse in Birbhum District. Spraying of 'B' is not effective in most of the cases. Proper insecticide is also not tested in the farmer's field. So, yield is low due to low flower set and pod formation.
Hypothesis	Application of proper insecticide may manage the thrips attack and reduce the flower drop and increase the yield & net return.
Farmers practice	Generally farmers do not use any insecticide to control thrips.
Micro-farming situation	Summer green gram is cultivated in irrigated medium land (Lateritic Soil). Soil is ready loam in texture having pH 5.8-6.2 in this district.
Production System	Paddy – Mustard/ Potato – green gram.
Thematic area	Pest Management.
Objective	To study the effect of insecticide application to manage thrips and increase yield of Summer green gram.
Sowing Time	February- March, 2020
Variety to be used	PDM 84-139/HUM-16
Details of Technology assessment	Farmer's Practice - No insecticide application Technology Option-I - Thiomethoxam 25% WG 1gm/lit Technology Option-II- Thiomethoxam 25% WG (1gm/lit) + Lamda cyhalothrin 5% SC (0.5 ml/lit) Technology Option-III - Fipronil + Acetamiprid @ 1.6 ml/lit of water (800ml/ha)
Source of Technology	Package of Practices for Pulse Cultivation, ICAR-IIPR, Kanpur, Uttar Pradesh, India.
No. of replication	7
Plot Size (each replication /farmers)	0.13 ha
Total Plot Size	0.91 ha
Critical input	a) KVK Share: Seed, insecticide, fertilizer. b) Farmers Share: Irrigation, labour etc.
Approximate cost shared by KVK for seeds, fertilizer, insecticide etc	10,000.00

OFT – 4

Season	Winter, 2019-20
Title:	Assessment of specific medicines for the control of ulcerative disease in fish
Problem diagnosed:	Rapid spread of ulcerative disease due to absence of right selection of medicine for the disease
Hypothesis:	Use of right medicine and curative measures for ulcer disease can save the fish to a maximum extent
Micro farming situation:	Ponds are in medium land and surrounded by village houses, cattle sheds etc.
Farmers practice:	Farmers apply lime, sometimes, irregularly to prevent fish diseases.

Production system	Extensive system
Thematic area	Disease management
Objective:	To study the effect of certain chemicals and formulations for management of ulcer diseases of fish.
Time:	Winter, 2019
Variety to be used:	Indian Major Carps (IMCs) and Exotic Carps
Details of technology assessment	Farmers' Practice: Irregular application of lime and not in required dose Technology Option I: Lime (@10 kg / 0.13 ha) + Terramycin (@ 5 – 7 gm. / 100 kg. of Fish Feed) Technology Option II: Lime (@10 kg / 0.13 ha) + KMnO₄(@ 200 gm. / 0.13 ha) Technology Option III: Lime (@10 kg / 0.13 ha) + CuSO₄(@ 1:2000 ppm) Fish Feed:- Rice Bran + Mustard Oil Cake (1:1)
Source of technology	<i>A Hatchery Manual for the Common Chinese and Indian Major Carps</i> , V. G. Jhingran and R. S. V. Pullin, Asian Development Bank and International Centre for Living Aquatic Resources Management, 191p.
No. of replication:	5 (5 nos. of farmers)
Pond size (each treatments/farmers):	0.13 ha
Total pond area:	(0.13 X 4 X 5) ha = 2.6 ha
Critical input:	a) KVK share: Lime, Medicine, Chemicals etc. b) Farmers' share: Fish feed + fish stocking
Performance/Monitoring indicator:	Survival rate and yield of fish
Approximate cost shared by KVK for seeds, fertilizer etc.	Rs.15,000.00

OFT-5

Season	Winter,2019
Title	Assessment of profitability within components of integrated farming systems under fish based production system in lateritic soil of Birbhum District
Problem diagnosed	Lack of knowledge in integration of components in proper way for maximum profit.
Hypothesis	Integration of components in proper way may increase the farm profitability.
Farmers' practice	In fish based production system farmers cultivate fish only in very traditional way
Production System	Fish Based
Thematic Area	Integrated Farming System
Source	DARE/ICAR Annual Report, 2008-09, pp. 12-14 Fertilizer News, 46 (11), pp. 53-55 and 57-58.
Objective	To integrate the components in proper way and maximize the profit
Details of technology assessment	Farmers' Practice: Traditional Fish Farming Technology Option - I: Composite Fish Culture + Duck farming + <i>Azolla</i> + Pulses Technology Option - II: Composite Fish Culture + Duck farming + <i>Azolla</i> + Vegetables
Replication	7 nos.
Critical input	Fish finger lings, Ducklings, <i>Azolla</i> , Vegetable seeds, Pulse seeds
Performance/Monitoring indicator	Production and Economics of farming systems

Total cost of KVK share	Rs. 90,000.00
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OFT-6

Season	Kharif, 2019
Title	Evaluation of performance of coloured broiler chicken in semi intensive system of rearing
Problem Definition	Poor growth and survivability of Broiler Chicken: Kuroiler
Hypothesis	Coloured broiler chicken may ensure better production performance, survivability and market acceptability
Thematic Area	Broiler Management
Objective	To comparatively study and assess the performance of the coloured Broiler chicken in semi intensive system
Micro Farming Situation	Upland farming system
Production System	Deep litter farming system.
Farmers' Practice	Farmers are rearing 15 – 20 Kuroiler per Household under semi intensive farming system farming system.
Time	June, 2019
Variety / Breed to be used	Broiler Poultry
Details of Technology Assessment	Control: Farmers' Practice: Broiler: Kuroiler Technology Option – I: Krishibro Technology Option – II: Caribro
Source of Technology	ICAR-CARI, Project Directorate of poultry, Govt. of India
Numbers of Replications	07 (Seven)
Numbers of Birds per Replication	90 (30 nos. of birds under each treatment)
Total Numbers of Birds	630
Critical Input	a. KVK Share: Chicks, Medicine, Vaccine b. Farmers' Share: Feed, Medicine
Performance / Monitoring Indicators	Body Weight gain, Feed conversion Ratio, Mortality percentage, Economics
Approximate Costs shared by the KVK	Rs. 30,000.00 (Rupees Thirty thousand) only.

OFT- 7

Season	Pre Kharif, 2019
Title	Evaluation of performance of strategic feed supplementation to cross breed milch cattle
Problem Definition	Poor feeding practices and the low availability of quality feeds in unorganized dairy farming by small and marginal farmer.
Hypothesis	Adequate nutrition plays important role in dairy cattle productivity.
Thematic area	Nutrition management
Objective	Assess the performance of strategic feed supplementation to improve the productivity of animal
Farming situation	Upland farming system
Production system	Semi intensive system
Farmer's Practice	Small farmers keep 2-3 crossbreed milch cows under semi-intensive system.
Time	May, 2019
Variety/Breed to be used	Crossbreed cow

Details of technology Assessment	Control: Farmer's Practice Technology Option - I: Farmer's Practice + Protein Supplement (MOC 500gm/cow/day) Technology Option - II: Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day)
Sources of Technology	<i>Effect of protein supplementation on milk production and metabolism of dairy cows grazing tropical grass</i> , M. A. Danes, Chagas, L. J., Pedroso, A. M. and Santos, F. A. (2013). <i>Effect of protein supplementation on milk production and metabolism of dairy cows grazing tropical grass</i> , <i>J. Dairy Sci.</i> , 96(1): 407-419.
Numbers of Replications	7
Number of cow per replication	3
Total number of cow	21
Critical Input	a. KKV Share: Feed ingredients, medicine b. Farmer's Share: Cow
Performance/Monitoring Indicators	Milk yield, Lactation length, Milk fat percentage and SNF
Approximate cost shared by KVK	Rs.40,000/

OFT – 8

Season	Kharif, 2019
Title	Assessing performance of different group sizes of SHG on annual savings
Problem Definition	The selection of appropriate group size of Self Help Groups (SHGs) is important for efficient group dynamics as well as group performances. The selection of a suitable size of group members of a SHG is largely influenced by various socio-economic and situational factors which in turn affect the economic performances such as annual savings from the group activities.
Hypothesis	Relatively large groups having more than 15 (Fifteen) numbers of members will have more annual savings as it will enjoy both a higher revenue generation as well as a more favourable economy of scale of business.
Present Situation	Generally in West Bengal situation, the majority of SHGs are having 10 numbers of members.
Prevalent Practice	The Govt. encourages formation of SHGs with 10 to 15 members though the lower ceiling of numbers of members is 10 [Ref: - Memo No.925/W. B. S. R. L. M / Prog / 6P – 176 / 2015, Dated: - 15.09.2015 issued by “Anandadhara”, West Bengal State Rural Livelihoods Mission (WBSRLM), Panchayatas and Rural Development Department, Govt. of West Bengal].
Group Formation System	Generally 10 – 20 numbers of persons of a locality or nearby localities can form a Self Help Group.
Thematic Area	Group dynamics
Objective	To assess the extent of annual savings by different SHGs having different number sizes of group members.
Time	2019 – 2020
SHGs to be involved	Various SHGs having a diverse numbers of group members.
Details of Treatments	Farmers' Option = T₁ = 10 members (Small Group) T₂ = 11-15 members (Medium group) T₃ = >15 members (Large Group)
Source of Technology	Overview of Frontline Extension Tools and Designing OFTs in Extension, R. Roy Burman, ICAR-IARI, New Delhi
Numbers of Replications	10 (Ten)
Numbers of SHGs per Member Size Group	10 (Ten)
Total Numbers of SHGs	30 (Thirty)
Critical Input	a. KVK Share: Assessing the economic performances of SHGs of various member

	size groups. b. Farmers' Share: Running of SHG activities and maintaining the financial records of the SHGs.
Performance / Monitoring Indicators	<ul style="list-style-type: none"> • Savings from own contribution of members • Saving from interest of loan to its member and outsider • Income from different economic activities of the group • Revolving fund receive from block • Savings from donation • Other sources of income-Income from lottery, Harvesting of crops, organizing stall in fairs, social festivals etc.
Approximate Costs shared by the KVK	Rs. 5,000.00

10. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1.	Short Term Research on Integrated Farming System from ATMA	4.0 Lakh
2	On Farm Trial on Liming in Rabi Pulses from ATMA	1.0 lakh

11. No. of success stories proposed to be developed with their tentative titles

2 success stories will be developed.

Tentative Title: a) Small scale Dairy entrepreneurship development

b) Small scale Fishery entrepreneurship development

12. Scientific Advisory Committee

Date of SAC meeting held during 2018-19	Proposed date during 2019-2020
26 th March, 2019	25 th March, 2020

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	200	50	10	50	10	70	10	170	30	200	20	5
Water Samples	100	30	-	30	-	40	-	100	-	100	10	5
Other (Please specify)	-											
Total	300	80	10	80	10	110	10	270	30	300	30	10

14. Fund Requirement and Expenditure

	Expenditure (From April, 2018 to March, 2019) Rs. In lakh	Anticipated Requirement as Per BE (2019-20) Rs. In lakh
Recurring		
Pay and Allowances	126.986	137.00
TA	00.43	01.00
HRD	-	00.50
Contingencies	11.85	18.70
TOTAL(A)	139.266	157.20
Non Recurring		
Works	-	572.25*
Vehicle	-	-
Equipment, Furniture and Furnishing	-	07.00**
Soil and Water Testing / Plant Diagnostic Lab	-	1.00
Library	-	00.20
TOTAL (B)	-	580.45
TOTAL (A + B)	139.266	737.65

N. B.

* (i) Submersible Water Pump 5 HP for Nursery Pond and Fish Breeding Unit – Rs. 20.00 Lakhs

* (ii) Administrative Building 1st. Floor (550.00 Square Meters) – Rs. 275.00 Lakhs

* (iii) Trainees' Hostel 1st. Floor (305.00 Square Meters) – Rs. 137.25 Lakhs

* (iv) Construction of Processing Unit (400.00 Square Meters) – 140.00 Lakhs

** (i) Office Furniture, AC Machines etc. – Rs. 04.00 Lakhs and **(ii) Farm Equipments – Rs. 03.00 Lakhs

15. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data

One of the important technologies is Production Enhancement of Poultry Bird through improved rural poultry breed. RKVK conducted three OFT programmes for three consecutive years and distributed 20 nos. of deshi poultry chicks, 20 nos. of RIR chicks and 20 nos. of Vanaraja chicks to 21 nos. of farmers. After successful conduction of OFT programme on Comperative Analysis of the Performances of the different types of Rural Poultry Breed under Back Yard Farming System, RIR poultry bird was distributed 600 birds to a total of 30 farmers as FLD programme on Breed Adoption in 7 villages of Birbhum District. Presently the technology of rearing RIR poultry in back yard farming situation in dryland farming condition has been widely accepted by the farmers. It has been widely spread in 56 villages by around 586 no. of farmers in the Birbhum District.



Sri Tapan Kumar Ghosh, Bishnubati, Sattore, Birbhum with RIR Poultry Birds at his Back Yard Poultry Farm



ACTION PLAN

(APRIL, 2019 - MARCH, 2020)

**Rathindra Krishi Vigyan Kendra
Palli Siksha Bhavana
(Institute of Agriculture)
Visva-Bharati
Sriniketan, P. O. – Sriniketan,
Dist. - Birbhum, West Bengal – 731236**

Presented at

**The Zonal Workshop of the Krishi Vigyan Kendras (KVKs),
Zone – V, Indian Council of Agricultural Research (ICAR)-
Agricultural Technology Application Research Institute, Kolkata**

**At
Uttar Banga Krishi Viswa Vidyalaya (UBKV)
Cooch Bihar, West Bengal**

On June 8th. to 10th., 2019

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