

## 1. Description of Agro Climatic Zone of the Operational Area:

Birbhum being the northern most district of the Burdwan division lies between the latitude 23° 32' and 24° 35' in the northern hemisphere and 80° 01' 40' and 87° 05' 25' longitude. On the map the district (Birbhum) looks like an isosceles triangle. The apex is situated at the northern extremity not far south of the point where the Ganges and the hills of Santhal Parganas of Bihar beginning to diverge while the river Ajoy forms the base of the triangle. Birbhum is bounded on the north and west by the Santhal Parganas, by the districts Murshidabad and Burdwan on the east, and on the south by Burdwan. The Birbhum is separated from the Burdwan district by the river Ajoy. The district comprises three sub-divisions namely- Bolpur, Rampurhat and Suri. Suri is the head quarter of the district and of the Suri (*Sadar*)-Division as well.

This district (Birbhum) is enriched by various types of soil namely, *Metal* (Clay soil retentive of moisture which is best suited for growing winter paddy, sugarcane, wheat, gram and *kalai*); *Ental* (a sticky brownish clay, it is poor soil and is capable of producing paddy only if manured); *Bagha Ental* (ental having colour or tiger, it is poor soil capable of producing paddy only if manured); *Bele* (is a whitish loose and poor soil, capable of growing paddy and vegetable); *Kankure* ((it is a redish, loose laterite soil capable of growing bajra, maize, kurthi, bean and marual); *Bastu* (it is a blackish friable rich soil and is largely used for rabi crops); *Bindi* (it is a poor sandy soil which improves with continued cultivation, capable of producing paddy but can also grow rabi crops if irrigated); *Reti Rfi* (is lighter variant of *palli*, it does not grow paddy it is best suited for vegetables, wheat, barley etc.); *Pali* (deposit of soil is bed of river or in areas subject to recurring inundation, it is very rich soil and is well suited for sugarcane, wheat, gram, potato and other vegetables. It is generally reserved for more valuable crops rather than paddy).

The agro-climatic condition of the district is mainly influenced by the presence of a number of river, rivulets, dams, barrages and forests. The variation of temperature is from 10.7°C to 28°C in winter and from 26.5°C to 39.4°C in summer on an average. The average annual rainfall is 1453 mm. The predominant soil types are old alluvium to red laterite. This area is under sub-humid lateritic belt.

Soils of lateritic belt are highly coarse textured and well drained. Iron concentrations are dispersed on the surface and honeycomb structures of oxides of Fe and Al are present in the sub surface or exposed in some eroded areas. About 50-60 percent of lands are located on the higher situation, about 20-30 percent of the land on medium situation and 10-20 percent land are on lower situation. Upland soils are strongly acidic and poor in organic matter, available P and available K and lime. The lands on lower situation are slightly rich in fertility status. Annual precipitation varies between 1100 mm and 1300 mm, about 80 per cent of which are precipitated between June and September during monsoon season.

The land of the alluvial belt has flat to rolling topography. Fields are generally banded in up and medium situations and slopes are mostly terraced. The soils are light, medium and heavy in texture. Soil reaction is acidic to neutral (pH 5 to 7). Soils in this region are low to medium in organic matter and available P and low to high in K. The average annual rainfall varies between 1300mm and 1500 mm.

Areas of light, medium and heavy soil of the district are 373.48, 85.48 and 141.0 thousand hectares respectively.

**Agro Ecological Situation of the district is as follows:**

Sl. No.	Agro ecological situation	Characteristics
1	Completely eroded land	This situation predominantly occurs in some areas of Birbhum district particularly in Rajnagar block. The soil contains gravels and coarse sands. Land is very steep, eroded and stony rough. Depth of the soil is zero or negligible. There are no irrigation facilities. Land is not suitable for cultivation of annual crops. Only there is the permanent vegetation of natural forest.
2	Upland with light soil	The uplands of red and lateritic belt are locally known as <i>Tanrh</i> and <i>Baid</i> . These are composed of shallow to moderately deep soil with light surface texture and low organic matter content with low P <sup>H</sup> . Major Crops are rice, wheat, red gram, black gram, vegetables etc. Major livestock's are cattle, buffalo, goat, poultry, pig etc.
3	Medium land with medium soils	These lands are locally known as <i>Kanali</i> . Depth of the surface layer varies from 135-160 cm. OM content and water holding capacity is to some extent higher. Acidity of these soil is lower than upland. Generally sandy loams to loamy sand soils are found. Major crops are rice, wheat, mustard, sesame, potato etc.
4	Low land with medium to heavy soil	These soils are locally known as <i>Sole</i> or <i>Bahal</i> . Soils are deep and potentially productive in nature and silty loam to clayey in texture with pale brown to dark grayish brown in colour. Soil depth is more as compare to other situation. Acidity is lower and fertility is higher to some extent than other situation. Submergence of low land during monsoon months is found every year. Rice being the main crop in <i>kharif</i> , pulse, oilseeds, wheat, potato and vegetables are also cultivated during <i>rabi</i> and <i>summer</i> under irrigated condition

**Major farming systems/enterprises (based on the analysis made by the KVK followed in the district are as follows**

S. No	Farming system/enterprise
1	Upland- Paddy, red gram, fruit crops
2	Medium land- Paddy, mustard, potato, sugarcane, sesame, black gram, vegetables, fruit crops, cow, goat, backyard poultry, fishery
3	Lowland- Paddy, sugarcane, wheat, potato, vegetables, backyard duckery, fishery

**2. Micro-Farming Situation identified:**

As per agro eco-system analysis five farming situations has been identified which are as follows:

- i) Upland (*Dangamath*) which is only relatively high land;
- ii) Mid Land (*Majmath*);
- iii) Fertile low land (*Bhalo do bari*);
- iv) Less Fertile low land (*Do bari*);
- v) Deep low land (*Jala Math*);

### 3. Characteristics of Farming Situation:

Sl. No.	Variables	Dangamath	Majmath	Nichumath	Jalamath
1.	Land	Upland	Medium land	Lowland	Deep low land
2.	Soil fertility	Low	Low to Medium	Medium	High
3.	Water resources	Pond	River, Ponds	River	River
4.	Soil erosion	High	Less	Less	Less
5.	Soil moisture	Less	Moderate	High	Very high
6.	Water logging	No	No	No	Moderate
7.	Cropping sequence	Paddy-fallow	Paddy-Paddy Paddy- Mustard/Vegetables	Paddy-Paddy Paddy-Potato- Sesame Paddy-Mustard- Black Gram/ Green Gram	i) Paddy-potato-sesame ii) Paddy-vegetables iii) Paddy-wheat
8.	Water table	9-11 ft.	8-10 ft	7-9 ft.	5-6 ft
9.	Field crops	Paddy	Paddy, Mustard, Sesame, Black Gram	Paddy, Potato, Sesame, Mustard	Mustard, wheat, potato, Sesame

### 4. Thrust area identified through Agro-Eco-System Analysis.

- Crop diversification through introduction of pulses, oilseeds, major millets, horticultural crops like elephant's foot yam, drum stick and high value low volume horticultural products like capsicum, broccoli etc.
- Popularization of High Yielding Varieties (HYVs) of major crops like paddy, wheat, mustard, potato, pulses, oil seeds etc. as well as traditional varieties of those crop also.
- Cultivation of field crops which require least water in the Arid and Semi-Arid regions of the district and cultivation of suitable horticultural crops in those regions.
- Popularization of improved management practices of Animals and Fishes.
- Market led extension, Crop Insurance and institutional rural credit flow mechanism.
- Women empowerment.

## Executive Summary of the training programme including FLD & Sponsored in the Action Plan 2018 - 19

Discipline	No. of courses		Total no. of participants		Trainee days											
	On	Off	On	Off	PF		RY		EF		FLD		Sponsored		Total	
					On	Off	On	Off	On	Off	On	Off	On	Off	On	Off
<b>Agromony</b>	11	01	310	50	780	200	525	00	50	00	100	00	00	00	<b>1455</b>	<b>200</b>
<b>Horticulture</b>	05	00	155	00	180	00	00	00	00	00	220	00	00	00	<b>400</b>	<b>00</b>
<b>Plant Protection</b>	07	05	200	250	450	750	525	00	25	00	00	00	00	00	<b>1000</b>	<b>750</b>
<b>Animal Science</b>	18	03	461	150	610	300	630	00	55	00	190	00	00	00	<b>1485</b>	<b>300</b>
<b>Fishery</b>	11	02	281	70	900	200	630	00	00	00	80	00	00	00	<b>1610</b>	<b>200</b>
<b>Home Science</b>	04	03	105	150	275	150	00	00	00	00	30	00	00	00	<b>305</b>	<b>150</b>
<b>Agricultural Extension</b>	11	06	260	300	600	700	00	00	00	00	60	00	00	00	<b>660</b>	<b>700</b>
<b>Total</b>	<b>67</b>	<b>20</b>	<b>1772</b>	<b>970</b>	<b>3795</b>	<b>2300</b>	<b>2310</b>	<b>00</b>	<b>130</b>	<b>00</b>	<b>680</b>	<b>00</b>	<b>00</b>	<b>00</b>	<b>6915</b>	<b>2300</b>

## 5. Training Programmes.

### 5A. Training Programme for Practicing Farmers / Farm Women:

Discipline	Thematic Area	Title of the Programme	Course Objective	Types of Training	No. of Course	Duration	No. of Trainees /Course	Total Trainee Days	Coverage							
									SC		ST		Other		Total	
									M	F	M	F	M	F	M	F
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
<b>April, 2018 (Quarter - I)</b>																
Fishery	Carp Fry and Fingerling Rearing	Scientific Method of Pond Preparation for Fingerling Raising	<ul style="list-style-type: none"> <li>To train the method of preparation of nursery pond</li> <li>To teach about plankton and p<sup>H</sup> of water</li> <li>To train the steps of fry rearing</li> </ul>	Off	01	02	40	80	08	00	12	00	20	00	40	00
Horticulture	Production Technology	Improved Package and Practices of Pre-Kharif Seasonal Vegetables	<ul style="list-style-type: none"> <li>To make the trainees aware about the different High Yielding Improved varieties of Pre-Kharif Vegetables</li> <li>To train the Cultural practices of these vegetables like plant spacing, manures, pinching, disbudding, plant protection measures etc.</li> </ul>	ON	01	02	30	60	00	00	30	00	00	00	30	00
Home Science	Income Generation	Training on Preparation of Decorative Ladies Purse and Bags	<ul style="list-style-type: none"> <li>To train the technique of cutting the nylon chord in proper size</li> <li>To teach about colour combination of nylon chords</li> <li>To train the technique of knitting the nylon chord according to the design</li> </ul>	ON	01	03	25	75	00	06	00	03	00	16	00	25

Animal Science	Disease Management	Identification and Control of Disease in Poultry and Their Prophylactic Measures with Special Reference to Bird Flu	<ul style="list-style-type: none"> <li>To teach the different causes and symptoms of diseases</li> <li>To make the trainees aware about the preventive measures</li> </ul>	ON	01	02	30	60	09	00	12	00	09	00	30	00
Agricultural Extension	Group Dynamics	Concept, Formation and Functioning of Joint Liability Group	<ul style="list-style-type: none"> <li>To impart the knowledge about the procedure of formation of a joint liability group</li> <li>To make the farmers and farm women aware about the various functions of a joint liability group</li> </ul>	ON	01	03	30	90	08	02	12	04	04	00	24	06
<b>May, 2018 (Quarter - I)</b>																
Agronomy	Crop Diversification	Specific Agro technology for cultivation of Ekangi ( <i>K. galanga</i> ) in rainfed monocropped situation	<ul style="list-style-type: none"> <li>To aware the importance of <i>Ekangi</i> as medicinal plants</li> <li>To provide skill of <i>Ekangi</i> plantation, drainage channel preparation and mulching</li> <li>To provide skill of herbicide application, manuring and fertilizer application etc.</li> <li>To impart skill on harvesting and threshing of <i>Ekangi</i></li> </ul>	ON	01	04	30	120	09	00	04	00	17	00	30	00

<b>Agromony</b>	Soil Health and Fertility Management	Collection of Soil Sample and Preparation of Soil Sample for Soil Testing and Interpretation	<ul style="list-style-type: none"> <li>To provide skill of soil sampling in the field</li> <li>To aware the importance of soil testing</li> <li>To provide skill of drying, sieving, partitioning etc.</li> <li>To interpret the soil testing report</li> </ul>	Off	01	04	50	200	11	00	06	00	33	00	50	00
<b>Plant Protection</b>	IPM	Different Components of IPM, IDM and IWM	<ul style="list-style-type: none"> <li>To provide knowledge about bio-control and others</li> <li>To provide knowledge about different method</li> </ul>	ON	01	03	30	90	08	00	12	00	10	00	30	00
<b>Fishery</b>	Composite Fish Culture	Culture of Bhetki ( <i>Lates calcarifer</i> ) along with IMC and Exotic Carps	<ul style="list-style-type: none"> <li>To train the steps of pond preparation.</li> <li>To make the trainees aware about the IMC species compatible for culture with Bhetki.</li> <li>To train how to measure pH and plankton density.</li> </ul>	Off	01	04	30	120	07	00	03	00	20	00	30	00
<b>Fishery</b>	Composite Fish culture	Cage Culture of Magur, Singhi, Koi along with Composite Fish Culture	<ul style="list-style-type: none"> <li>To impart the practicing fish farmers knowledge and information about the concept of Cage preparation with bamboo frame and net</li> <li>To make the fish farmers aware about the importance of the Cage Culture along with Carp Culture.</li> </ul>	ON	01	03	30	90	08	00	12	00	10	00	30	00
<b>Home Science</b>	Women Health	Care and Management of Pregnant Mothers	<ul style="list-style-type: none"> <li>To reduce the mortality rate of pregnant mothers and neonatal</li> </ul>	Off	01	01	50	50	00	15	00	05	00	30	00	50

Animal Science	Disease Management	Reduction of Treatment Cost by Use of Indigenous Technology and Knowledge (ITK)	<ul style="list-style-type: none"> <li>To make the trainees aware about the traditional medical practices</li> <li>To promote the conservation of medicinal plant resources</li> <li>To promote the complementary use of indigenous and conventional veterinary medicine</li> </ul>	ON	01	02	30	60	09	00	15	00	06	00	30	00
Agricultural Extension	Market led Extension	Formation of Farmers Producers Organization (FPO)	<ul style="list-style-type: none"> <li>To impart the practicing farmers the knowledge and information about the concept of Commodity Interest Group</li> <li>To make the farmers aware about the importance of the CIG</li> </ul>	ON	01	02	30	60	08	00	12	00	10	00	30	00
Agricultural Extension	Institutional Credit Supply	Mechanism and Use of Kisan Credit Card (KCC)	<ul style="list-style-type: none"> <li>To teach the mechanism of Kisan Credit Card (KCC)</li> <li>To teach the various functions of KCC</li> <li>To make the trainees aware about the various unique features of KCC</li> </ul>	Off	01	03	50	150	11	00	20	00	19	00	50	00
<b>June, 2018 (Quarter - I)</b>																
Agronomy	Production Technology	Direct seeding technologies of rice	<ul style="list-style-type: none"> <li>To provide knowledge about different direct seeding techniques</li> <li>To impart skill of dry seeding, drum seeding etc.</li> <li>To provide knowledge for calculation of economics of direct seeding in comparison to traditional rice cultivation</li> <li>To change the attitude of the farmers through generation of awareness on advantages of direct seeding</li> </ul>	ON	01	04	30	120	10	00	05	00	15	00	30	00



<b>Horticulture</b>	Production Technology	Improved Package and Practices of Kharif Seasonal Vegetables	<ul style="list-style-type: none"> <li>To make the trainees aware about the different High Yielding Improved varieties of Kharif Vegetables</li> <li>To train the Cultural practices of these vegetables like plant spacing, manures, pinching, disbudding, plant protection measures etc.</li> </ul>	ON	01	02	30	60	00	00	30	00	00	00	30	00
<b>Plant Protection</b>	IPM	Integrated Pest, Disease and Weed Management in <i>Kharif</i> Paddy (Phase – I)	<ul style="list-style-type: none"> <li>To identify the pests, disease and Weed</li> <li>To enable the farmers in decision making management.</li> </ul>	ON	01	03	30	90	07	00	15	00	08	00	30	00
<b>Fishery</b>	Composite Fish Culture	Preparation and Management of rearing and stocking Pond for Composite Fish Culture	<ul style="list-style-type: none"> <li>To make the trainees aware about the different Carps for stocking in rearing and stocking ponds</li> <li>To train the steps involved in pond preparation</li> <li>To make the trainees aware about their food habit and feeding schedule</li> </ul>	ON	01	04	30	120	07	00	15	00	08	00	30	00
<b>Home Science</b>	Household Food Security	Nutrition Gardening	<ul style="list-style-type: none"> <li>To impart the practicing farm women knowledge and information about the concept of Nutrition Gardening</li> <li>To make the farm women aware about the importance of the Nutrition Gardens</li> </ul>	ON	01	02	30	60	00	05	00	25	00	00	00	30
<b>Animal Science</b>	Feed and Fodder	Low Cost Feed Preparation For Poultry	<ul style="list-style-type: none"> <li>To teach the different feed ingredients and their uses in poultry feed</li> <li>To train the method of balance feed formulation</li> </ul>	ON	01	04	30	120	09	00	15	00	06	00	30	00

Agricultural Extension	Group Dynamics (Farmers' Organization)	Formation of Farmers' Club	<ul style="list-style-type: none"> <li>To orient the farmers about farmers club</li> <li>To train the farmers about process of formation and functioning of farmers club</li> <li>To make the farmers aware about the importance of Farmers Club</li> </ul>	Off	01	02	50	100	12	00	20	00	18	00	50	00
Agricultural Extension	Group Dynamics (Farmers' Organization)	Formation of Farmers' Interest Groups	<ul style="list-style-type: none"> <li>To orient the farmers about Farmers' Interest Groups (FIGs)</li> <li>To train the farmers about process of formation and functioning of FIGs</li> <li>To make the farmers aware about the importance of Farmers' Interest Groups (FIGs)</li> </ul>	Off	01	02	50	100	12	00	20	00	18	00	50	00
<b>July, 2018 (Quarter - II)</b>																
Agronomy	Soil Health Management	Green manuring with <i>Dhiancha</i> and <i>Azolla</i> in Kharif Paddy	<ul style="list-style-type: none"> <li>To provide skill on cultivation of <i>Dhaincha</i> as Green manure Crop</li> <li>To provide skill on multiplication and use of <i>Azolla</i> as Green Manure in Paddy</li> </ul>	ON	01	04	30	120	09	00	06	00	15	00	30	00
Agronomy	Seed Production	Participatory Paddy Seed Production Technologies in Kharif (Phase – I)	<ul style="list-style-type: none"> <li>To make the farmers aware about the concept of "Seed Village"</li> <li>To know the different types of seed</li> <li>To provide basic knowledge about isolation distance and roughing off techniques</li> <li>To train about the process of the conservation of seeds</li> </ul>	ON	01	03	30	90	09	00	06	00	15	00	30	00

Plant Protection	IPM	Integrated Pest, Disease and Weed Management In <i>Kharif</i> Paddy (Phase – II)	<ul style="list-style-type: none"> <li>To identify the pests, disease and Weed</li> <li>To enable the farmers in decision making management.</li> </ul>	ON	01	03	30	90	08	00	12	00	10	00	30	00
Home Science	Health and Nutrition	Nutritional Requirement of Pre-School Children	<ul style="list-style-type: none"> <li>To reduce malnutrition of the pre-school child</li> <li>To aware mothers about nutrition requirement of pre- school child</li> </ul>	Off	01	01	50	50	00	20	00	20	00	10	00	50
Animal Science	Management in Farm Animal	Establish, Maintenance and Management of Small Scale Dairy Unit	<ul style="list-style-type: none"> <li>To make the trainees aware about the impact of dairy farming on household income</li> <li>To train proper management, feeding, breeding practices and disease prevention in dairy animal</li> </ul>	ON	01	04	25	100	05	00	10	00	10	00	25	00
Animal Science	Management in Farm Animal	Back Yard Farming Improvement with Utilization of Natural Resources	<ul style="list-style-type: none"> <li>To train scientific back yard management of animal husbandry</li> <li>To impart knowledge about natural resources</li> </ul>	ON	01	02	30	60	08	00	12	00	10	00	30	00
Agricultural Extension	Insurance	Evolution of Crop Insurance (CI) and Pradhan Mantri Fasal Bima Yojona (PMFBY)	<ul style="list-style-type: none"> <li>To teach the mechanism of Crop Insurance (CI) and Pradhan Mantri Fasal Bima Yojona (PMFBY)</li> <li>To teach the various functions of CI and PMFBY</li> <li>To teach various unique features of CI and PMFBY</li> </ul>	ON	01	02	30	60	10	00	12	00	08	00	30	00
<b>August, 2018 (Quarter - II)</b>																
Agronomy	Soil Health and Fertility Management	Nutrient Management in Rice according to Soil Health Card	<ul style="list-style-type: none"> <li>To aware the farmers about the importance of Soil Health Card</li> <li>To provide skill in nutrient management in Paddy</li> <li>To adjust the fertilizers in the Paddy field on the basis of soil analysis</li> </ul>	ON	01	04	30	120	08	00	06	00	16	00	30	00

<b>Plant Protection</b>	IPM	Pest and Disease Management in Early <i>Rabi</i> Vegetables	<ul style="list-style-type: none"> <li>To identify the pests and diseases of early <i>rabi</i> vegetables</li> <li>To enable the farmers in decision making management regarding control measures of pests and diseases of early <i>Rabi</i> Vegetables.</li> </ul>	Off	01	03	50	150	10	00	20	00	20	00	50	00
<b>Fishery</b>	Fish Nutrition and Feed Management	Preparation of Balanced Fish Feed from Low Cost Ingredients	<ul style="list-style-type: none"> <li>To identify the local source of ingredients of Fish Feeds</li> <li>To teach the proper ratio of mixing the ingredients of Fish Feeds</li> </ul>	ON	01	04	30	120	05	00	12	00	13	00	30	00
<b>Animal Science</b>	Quail Farming	Quail Farming-Alternate Livelihood Programme	<ul style="list-style-type: none"> <li>To promote alternate farming system for income generation</li> <li>To aware the farmers about scientific Quail farming</li> </ul>	ON	01	01	30	30	09	00	12	00	09	00	30	00
<b>Home Science</b>	Awareness Generation on Nutrition	Design of Low Cost, High Nutritious Diet for Vulnerable Group	<ul style="list-style-type: none"> <li>To impart the practicing farm women knowledge and information about the concept of Low Cost, High Nutritious Diet</li> <li>To make the farm women aware about the importance of the Low Cost, High Nutritious Diet</li> </ul>	Off	01	01	50	50	00	15	00	20	00	15	00	50
<b>Agricultural Extension</b>	Disaster Management	Disaster Management with Special Reference to Agriculture and Related Sectors	<ul style="list-style-type: none"> <li>To make the stake holders aware about the preliminary measures to reduce the risks of disasters</li> <li>To provide the information and knowledge about the measures for reducing risks and losses from disasters</li> </ul>	ON	01	03	30	90	10	00	12	00	08	00	30	00

<b>Agricultural Extension</b>	Market Linkage	Marketing Information and Market Linkage of Vegetable Farmers	<ul style="list-style-type: none"> <li>To make the stake holders aware about the procedures to gather market information</li> <li>To provide the information and knowledge about the process and functions of linkages between vegetable farmers and markets</li> </ul>	ON	01	03	30	90	10	00	12	00	08	00	30	00
<b>September, 2018 (Quarter - II)</b>																
<b>Agronomy</b>	Seed Production	Participatory Paddy Seed Production Technologies in Kharif (Phase – II)	<ul style="list-style-type: none"> <li>To know the different types of seed</li> <li>To provide basic knowledge about isolation distance and roughing off techniques</li> <li>To train about the process of the conservation of seeds</li> <li>To provide knowledge about marketing of Paddy Seeds</li> </ul>	ON	01	03	30	90	09	00	06	00	15	00	30	00
<b>Horticulture</b>	Production Technology	Acid Soil Management in Rabi Seasonal Vegetables	<ul style="list-style-type: none"> <li>To make the trainees aware about the different liming materials used in Rabi Seasonal Vegetables</li> <li>To train the other Cultural practices of these vegetables for reducing soil acidity</li> <li>To impart skill on determination of lime requirement</li> </ul>	ON	01	02	30	60	00	00	30	00	00	00	30	00
<b>Plant Protection</b>	IPM	Pest, Disease Management on Rabi Seasonal Oil Seeds and Pulses	<ul style="list-style-type: none"> <li>To identify the pests and diseases</li> <li>To enable the farmers in decision making management.</li> </ul>	Off	01	03	50	150	10	00	20	00	20	00	50	00

<b>Animal Science</b>	Duck Farming	Duck rearing and Its Management both for Meet and Egg Purpose	<ul style="list-style-type: none"> <li>• To learn scientific method to increase productivity</li> <li>• To train about the proper management practices and preventive measures of diseases</li> </ul>	Off	01	02	50	100	00	14	00	20	00	16	50	00
<b>Home Science</b>	Income Generation	Training on Batik Work	<ul style="list-style-type: none"> <li>• To train the technique of drawing design with brush and wax on cloth</li> <li>• To teach about colour combination</li> <li>• To train about the technique of colour preparation.</li> <li>• To train about the technique of removing wax</li> </ul>	ON	01	07	20	140	00	08	00	00	00	12	00	20
<b>Fishery</b>	Hatchery Management and Culture of Fresh Water Prawn	Fresh Water Giant Prawn Culture with Indian Major Carps (IMC) and Exotic Carps	<ul style="list-style-type: none"> <li>• To make the trainees aware about the layout of integrated fish farming with giant prawn.</li> <li>• To teach about the disease and its control measures</li> <li>• To train about the use of balanced feed for fish and prawn</li> </ul>	ON	01	05	30	150	09	00	12	00	09	00	30	00
<b>Fishery</b>	Composite Fish Culture and Fish Disease	Improved Disease Management Practices in Fresh Water Aquaculture	<ul style="list-style-type: none"> <li>• To impart the practicing fish farmers knowledge and information about the identification and control measures of varied fish diseases</li> <li>• To make the fish farmers aware about the importance of the various Management Practices of Fish Diseases</li> </ul>	ON	01	03	30	90	07	00	15	00	08	00	30	00

Agricultural Extension	Market Linkage	Marketing Information and Market Linkage of Pulse and Oilseed Farmers	<ul style="list-style-type: none"> <li>To make the stake holders aware about the procedures to gather market information</li> <li>To provide the information and knowledge about the process and functions of linkages between Pulse and Oilseed farmers and markets</li> </ul>	ON	01	03	30	90	10	00	12	00	08	00	30	00
<b>October, 2018 (Quarter - III)</b>																
Plant Protection	IPM	IPM on Solanaceous Crops	<ul style="list-style-type: none"> <li>To identify the pests, diseases and weed</li> <li>To calculate pest defender ratio</li> <li>To enable the farmers in decision making management</li> <li>To provide idea of different cultural practices</li> </ul>	ON	01	03	30	90	08	00	12	00	10	00	30	00
Animal Science	Goat Farming	Scientific Black Bengal Goat Rearing	<ul style="list-style-type: none"> <li>To conserve the superior germplasm of the threatened breed</li> <li>To train the proper feeding, breeding and management practices.</li> <li>To make the trainees aware about the different diseases and there preventive measures in goat.</li> </ul>	Off	01	02	50	100	14	00	20	00	16	00	50	00

<b>Fishery</b>	Integrated Farming System	Integrated Farming Fish	<ul style="list-style-type: none"> <li>• To make the trainees aware about the compatible components</li> <li>• To train about the management of recycling of residuals of components</li> </ul>	ON	01	04	30	120	08	00	12	00	10	00	30	00
<b>Animal Science</b>	Integrated Farming System	Role of Animal Husbandry in Integrated Farming	<ul style="list-style-type: none"> <li>• To teach the scientific animal husbandry management in integrated farming system</li> <li>• To aware the farmers about income generation through integrated farming</li> </ul>	ON	01	01	30	30	08	00	12	00	10	00	30	00
<b>Agricultural Extension</b>	WTO and TRIPS Related Issues	Protection of Plant Varieties and Farmers' Rights Act (PPV & FRA) -2001	<ul style="list-style-type: none"> <li>• To teach about the Plant Varieties and Farmers' Rights Act (PPV &amp; FRA) - 2001</li> <li>• To make the farmers aware about the procedures of registration of traditional plant varieties</li> </ul>	Off	01	02	50	100	12	00	20	00	18	00	50	00

### November, 2018 (Quarter - III)

<b>Plant Protection</b>	IPM	IPM on Wheat, Sugarcane and High Value Vegetables like Broccoli, Capsicum etc.	<ul style="list-style-type: none"> <li>• To identify the pests, diseases and weeds</li> <li>• To calculate pest defender ratio</li> <li>• To enable the farmers in decision making management</li> <li>• To provide idea of different cultural practices</li> </ul>	Off	01	03	50	150	10	00	20	00	20	00	50	00
-------------------------	-----	--	---	-----	----	----	----	-----	----	----	----	----	----	----	----	----



<b>Animal Science</b>	Piggery Management	Scientific Piggery Management with special Reference To <i>Ghungroo</i> Breed	<ul style="list-style-type: none"> <li>To make the trainees aware about the proper breeding, feeding and management practices.</li> <li>To make the trainees aware about the different diseases and their preventive measures in pig.</li> </ul>	Off	01	02	50	100	15	00	30	00	05	00	50	00
<b>Fishery</b>	Carp Fry and Fingerling Rearing	Scientific Method of Carp Fry and Fingerling Rearing	<ul style="list-style-type: none"> <li>To train about the process of preparation of nursery pond</li> <li>To make the trainees aware about plankton and p<sup>H</sup> of water</li> <li>To train the steps of fry rearing and feed application</li> </ul>	ON	01	04	30	120	06	00	11	00	13	00	30	00
<b>December, 2018 (Quarter - III)</b>																
<b>Animal Science</b>	Fodder Cultivation	Quality Fodder Cultivation	<ul style="list-style-type: none"> <li>To teach the importance of fodder cultivation</li> <li>To train about the proper method of fodder cultivation</li> </ul>	ON	01	01	30	30	09	00	12	00	09	00	30	00
<b>Plant Protection</b>	Production of Bio-Pesticides and Seed Treatment of Various Crops	Identification of Different Bio Pesticides and Seed Borne Diseases and their Treatments	<ul style="list-style-type: none"> <li>To provide the knowledge about different bio-pesticides</li> <li>To provide knowledge about Importance of seed treatment</li> <li>To provide knowledge about different types of techniques</li> </ul>	ON	01	03	30	90	08	00	12	00	10	00	30	00

Agricultural Extension	Group Dynamics (Micro Finance)	Formation of Farmers' Producers' Organizations (FPOs) based on successful and functional Self Help Groups (SHGs)	<ul style="list-style-type: none"> <li>To orient the stake holders about Farmers' Producers' Organizations (FPOs) based on successful and functional Self Help Groups (SHGs) functions</li> <li>To train the steps of Farmers' Producers' Organizations (FPOs) based on successful and functional Self Help Groups (SHGs) formation</li> </ul>	Off	01	03	50	150	15	00	20	00	15	00	50	00
Agricultural Extension	Insurance	Concept, Functioning and Use of Pradhan Mantri Fasal Bima Yojona (PMFBY)	<ul style="list-style-type: none"> <li>To teach the mechanism of Pradhan Mantri Fasal Bima Yojona (PMFBY)</li> <li>To teach the various functions of PMFBY</li> <li>To teach various unique features of PMFBY</li> </ul>	ON	01	02	30	60	10	00	12	00	08	00	30	00

**January, 2019 (Quarter - IV)**

Plant Protection	IPM	IPM in Summer Vegetable	<ul style="list-style-type: none"> <li>To identify the major pest diseases and weed management</li> <li>To adopt different non-chemical management</li> <li>To identify pest defender ratio</li> <li>To minimize the pest population using different preventive methods</li> </ul>	Off	01	03	50	150	10	00	20	00	20	00	50	00
------------------	-----	-------------------------	--	-----	----	----	----	-----	----	----	----	----	----	----	----	----

<b>Animal Science</b>	Disease Management	Identification and Control of Diseases in Dairy Animals with their Prophylactic Measures	<ul style="list-style-type: none"> <li>To make the trainees aware about the different causes and symptoms of diseases</li> <li>To teach the preventive measures</li> </ul>	ON	01	02	30	60	09	00	12	00	09	00	30	00
<b>Fishery</b>	Composite Fish Culture and Fish Disease	Prevention and Control Method of Various Fish Diseases	<ul style="list-style-type: none"> <li>To make the trainees aware about the types of diseases.</li> <li>To train how to prevent diseases.</li> <li>To make the trainees aware about the different medicines used in disease control.</li> </ul>	ON	01	03	30	90	08	00	15	00	07	00	30	00
<b>Agricultural Extension</b>	Management of FPOs and SHGs	Development of Marketing Channel for FPOs and SHGs Products	<ul style="list-style-type: none"> <li>To identify the marketing channels</li> <li>To establish functional linkages with various organizations for marketing of the SHG products</li> <li>To fix the price of products with realistic, logical and scientific methods</li> </ul>	Off	01	02	50	100	14	00	20	00	16	00	50	00
<b>February, 2019 (Quarter - IV)</b>																
<b>Agronomy</b>	Seed Production	Seed Production Technologies of Black Gram and Green Gram in Summer Season	<ul style="list-style-type: none"> <li>To provide skill for selection for better variety and isolation distance to maintain genetic purity</li> <li>To provide knowledge for increasing income by producing pure seed</li> <li>To provide skill of roughing off techniques</li> <li>To provide knowledge of proper harvesting and threshing</li> <li>To impart skill on storing seeds</li> </ul>	ON	01	04	30	120	08	00	05	00	17	00	30	00

<b>Plant Protection</b>	IPM	Pest, Disease Management on Summer Pulses and Oil Seeds and Different Fruit Crops	<ul style="list-style-type: none"> <li>To identify the pests and diseases</li> <li>To enable the farmers in decision making management.</li> </ul>	Off	01	03	50	150	10	00	20	00	20	00	50	00
<b>Animal Science</b>	Sheep Farming	Improvement of Sheep Husbandry	<ul style="list-style-type: none"> <li>To train the proper management, feeding and breeding practices</li> <li>To make the trainees aware about the different diseases and their preventive measures</li> </ul>	ON	01	02	30	60	09	00	12	00	09	00	30	00
<b>Agricultural Extension</b>	Entrepreneurship Development	Development Of Farmers Club As Business Facilitators (BF)	<ul style="list-style-type: none"> <li>To teach the formation procedure of BF</li> <li>To make the farmers aware about the functioning of BF</li> <li>To provide information to the farmers on the utility of BF</li> </ul>	ON	01	02	30	60	08	00	12	00	10	00	30	00
<b>TOTAL</b>					<b>67</b>	<b>173</b>	<b>2260</b>	<b>5995</b>	<b>498</b>	<b>85</b>	<b>806</b>	<b>77</b>	<b>685</b>	<b>99</b>	<b>2049</b>	<b>231</b>

## 5. B. Vocational Training Programme for Rural Youth

Discipline	Thematic Area	Title of the Programme	Course Objective	Types of Training	No. of Course	Duration	No. of Trainees	Total Trainee Days	Coverage							
									SC		ST		Other		Total	
									M	F	M	F	M	F	M	F
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
<b>July, 2018 (Quarter - II)</b>																
Fishery	Carp Breeding and Hatchery Management	Induced Breeding and Carp Seed Production	<ul style="list-style-type: none"> <li>To train how to select brooders</li> <li>To train the steps of hormone preparation.</li> <li>To train how to operate hatchery</li> <li>To train about special precautions taken for Spawn Culture</li> </ul>	ON	01	30	21	630	06	00	03	00	12	00	21	00
<b>August, 2018 (Quarter - II)</b>																
Animal Science	Goatery Management	Improvement of Goat Farming	<ul style="list-style-type: none"> <li>To train the proper keeping facilities for Goats</li> <li>To train the proper management, feeding and breeding practices</li> <li>To make the trainees aware about the different diseases and their preventive measures for reared Goats</li> <li>To train the Trainees on proper value addition for Goat products</li> <li>To make the trainees aware about the marketing of the produce</li> </ul>	ON	01	30	21	630	06	00	09	00	06	00	21	00

**September, 2018 (Quarter - II)**

Plant Protection	Mushroom Production	Mushroom Cultivation	<ul style="list-style-type: none"> <li>To train how to produce Mushrooms</li> <li>To make the trainees aware about the different types of Mushrooms</li> <li>To teach what are the different food values of different types of Mushrooms</li> <li>To train about different methods for processing of produced Mushrooms</li> </ul>	ON	01	21	25	525	05	00	10	00	10	00	25	00
------------------	---------------------	----------------------	--	----	----	----	----	-----	----	----	----	----	----	----	----	----

**November, 2018 (Quarter - III)**

Agronomy	Production of Organic Inputs	Preparation and use of Organic Inputs	<ul style="list-style-type: none"> <li>To provide knowledge about different Organic Inputs</li> <li>To impart skill on preparation of Vermin-Compost</li> <li>To impart skill on <i>Azolla</i> multiplication</li> <li>To aware the Trainees about the use of Vermin-Compost and <i>Azolla</i> in different farm production systems</li> </ul>	ON	01	21	25	525	06	00	04	00	15	00	25	00
----------	------------------------------	---------------------------------------	--	----	----	----	----	-----	----	----	----	----	----	----	----	----

<b>TOTAL</b>					<b>04</b>	<b>102</b>	<b>92</b>	<b>2310</b>	<b>23</b>	<b>00</b>	<b>26</b>	<b>00</b>	<b>43</b>	<b>00</b>	<b>92</b>	<b>00</b>
--------------	--	--	--	--	-----------	------------	-----------	-------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

### 5. C. Training Programme for Extension Functionaries

Discipline	Thematic Area	Title of the Programme	Course Objective	Types of Training	No. of Course	Duration	No. of Trainees /Course	Total Trainee Days	Coverage							
									SC		ST		Other		Total	
									M	F	M	F	M	F	M	F
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
<b>July, 2018 (Quarter - II)</b>																
Agronomy	Productivity Enhancement in Field Crops.	Acid Soil Management to boost up crop productivity	<ul style="list-style-type: none"> <li>To make the trainees aware about the soil acidity and its effect</li> <li>To provide skill for adoption of improved cultural practices for acid soil management</li> <li>To provide knowledge in application and cost of liming materials</li> </ul>	ON	01	01	25	25	04	00	04	00	17	00	25	00
<b>August, 2018 (Quarter - II)</b>																
Plant Protection	Integrated Pest Management (IPM)	IPM in Major Field Crops – An Idea	<ul style="list-style-type: none"> <li>To make the trainees aware about the importance of IPM</li> <li>To teach the different components and modules involved in IPM.</li> </ul>	ON	01	01	25	25	05	00	10	00	10	00	25	00
Animal Science	Management of Farm Animals	Refreshment Training for “Pranibandhus” and “Pranimitras”	<ul style="list-style-type: none"> <li>To upgrade and refresh the skills of the trainees to improve conception rate of the animals</li> </ul>	ON	01	01	30	30	09	00	12	00	09	00	30	00

<b>Agronomy</b>	Crop Diversification	Increasing farmers' income through Pulse Cultivation	<ul style="list-style-type: none"> <li>To make the trainees aware about the importance of cultivation of Pulse</li> <li>To train the trainees on modern pulse crop cultivation practices</li> <li>To provide skill for precision application of inputs for pulse cultivation</li> </ul>	ON	01	01	25	25	04	00	04	00	17	00	25	00
<b>February, 2019 (Quarter - IV)</b>																
<b>Animal Science</b>	Management of Farm Animals	Genetic Resource Conservation of Domestic Animals and Poultry	<ul style="list-style-type: none"> <li>To make the trainees aware about the importance and steps of conservation</li> <li>To train about the recent breeding policies for streaming back to natural gene pool(back to the nature)</li> </ul>	ON	01	01	25	25	05	00	10	00	10	00	25	00
<b>TOTAL</b>					<b>05</b>	<b>05</b>	<b>130</b>	<b>130</b>	<b>27</b>	<b>00</b>	<b>40</b>	<b>00</b>	<b>63</b>	<b>00</b>	<b>130</b>	<b>00</b>



### 5. D. Front Line Demonstration Training

Discipline	Thematic Area	Title of the Programme	Course Objective	Types of Training	No. of Course	Duration	No. of Trainees /Course	Total Trainee Days	Coverage							
									SC		ST		Other		Total	
									M	F	M	F	M	F	M	F
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
<b>May, 2018 (Quarter - I)</b>																
Horticulture	Tuber Crop Management and Management Technology	Layout and Planting of Elephant's Foot Yam including Management of Crop Field.	<ul style="list-style-type: none"> <li>To make the trainees aware about the different HYVs</li> <li>To teach the trainees on how to select the site and planting time</li> <li>To train the seed treatment, seed multiplication, layout of pit preparation and filling with soil compost mixture</li> <li>To train the process of manuring, use of plant protection chemicals</li> <li>To train the trainees on De-suckering, top dressing, time of harvest as vegetables and time of harvest for seed production</li> </ul>	ON	01	04	25	100	07	00	03	00	15	00	25	00

<b>Fishery</b>	Feed Management of Fishes	Procedures of Use of Yeast + Cobalt Chloride in Fish Feed	<ul style="list-style-type: none"> <li>To train the trainees on the ideal processes of incorporating Yeast + Cobalt Chloride in Fish Feed</li> <li>To train the fishery farmers how to use the improved fish feed as mentioned earlier in Ponds</li> <li>To make the trainees aware about the importance of improved fish feed in fishery sector</li> </ul>	ON	01	04	10	40	03	00	05	00	02	00	10	00
<b>Animal Science</b>	Feed and Fodder	Fodder Cultivation	<ul style="list-style-type: none"> <li>To teach the importance of fodder cultivation</li> <li>To train the improved methods of fodder cultivation</li> </ul>	ON	01	02	15	30	03	00	06	00	06	00	15	00
<b>Home Science</b>	Nutritional Security	Establishment of Back Yard Nutrition Garden	<ul style="list-style-type: none"> <li>To disseminate the Package of Practice for Organic Production</li> <li>To develop skills for establishment of Back Yard Nutrition Garden</li> <li>To create awareness on importance of vegetable consumption in daily life</li> </ul>	ON	01	01	30	30	00	05	00	20	00	05	00	30
<b>June, 2018 (Quarter - I)</b>																

Horticulture	Production Technology	Cultivation of Barmasia Drumstick Var. PKM - 1	<ul style="list-style-type: none"> <li>To make the trainees aware about the different types and varieties of drumstick</li> <li>To make the trainees aware about availability of seeds of Baramasia Drumstick Var. PKM - 1</li> <li>To impart skill of seedling raising, pit preparation, planting etc.</li> </ul>	ON	01	03	40	120	12	00	08	00	20	00	40	00
Animal Science	Dairy Management	Scientific Dairy Management with Especial Reference to Nutritional Aspects	<ul style="list-style-type: none"> <li>To impart knowledge and skill about scientific management of dairy</li> </ul>	ON	01	08	10	80	03	00	04	00	03	00	10	00
Agricultural Extension	Group Dynamics (Self Help Groups)	Formation of Self Help Groups for Accumulation of Social Capital and Increasing the Family Income	<ul style="list-style-type: none"> <li>To orient the farmers and farm women about Self Help Groups</li> <li>To train the farmers and Farm Women about process of formation and functioning of Self Help Groups</li> </ul>	ON	03	01	20	60	12	08	20	10	07	03	39	21
<b>August, 2018 (Quarter - II)</b>																
Animal Science	Goatery Management	Low Cost Concentrate Preparation	<ul style="list-style-type: none"> <li>To impart knowledge and skill about low cost feed preparation</li> </ul>	ON	01	02	15	30	03	00	06	00	06	00	15	00
<b>October, 2018 (Quarter - III)</b>																
Animal Science	Breed Up Gradation	Techniques of Breed Up Gradation of Ducks	<ul style="list-style-type: none"> <li>To make the trainees aware about the selection procedure and its importance in egg production.</li> <li>To teach the feeding and vaccination schedule of Ducks</li> </ul>	ON	01	01	30	30	08	00	12	00	10	00	30	00

### November, 2018 (Quarter - III)

Agronomy	Crop Management	Land Preparation and Sowing of Wheat	<ul style="list-style-type: none"> <li>To impart knowledge and skill about appropriate time of land preparation and sowing method</li> </ul>	ON	01	04	25	100	08	00	03	00	14	00	25	00
----------	-----------------	--------------------------------------	--	----	----	----	----	-----	----	----	----	----	----	----	----	----

### December, 2018 (Quarter - III)

Animal Science	Green Fodder Cultivation	Production Practices of different Improved Green Fodder Crops	<ul style="list-style-type: none"> <li>To teach the importance of green fodder cultivation</li> <li>To train the improved methods of improved green fodder cultivation</li> </ul>	ON	01	01	20	20	04	00	04	00	12	00	20	00
----------------	--------------------------	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----

### February, 2019 (Quarter - IV)

Fishery	Composite Fish Culture with Bhetki ( <i>Lates calcarifer</i> )	Introduction of with Bhetki ( <i>Lates calcarifer</i> ) in Composite Fish Culture	<ul style="list-style-type: none"> <li>To train the trainees of ideal pond preparation procedures for rearing of Bhetki in Composite Fish Culture</li> <li>To train the trainees on the feeding habit of Bhetki (<i>Lates calcarifer</i>)</li> <li>To train the trainees on the disease management practices of Bhetki (<i>Lates calcarifer</i>)</li> <li>To make the trainees aware about the Ratio of stocking with Bhetki (<i>Lates calcarifer</i>) in composite culture</li> </ul>	ON	01	04	10	40	03	00	05	00	02	00	10	00
---------	--	---	--	----	----	----	----	----	----	----	----	----	----	----	----	----

<b>TOTAL</b>					14	35	250	680	66	13	76	30	97	08	239	51
--------------	--	--	--	--	----	----	-----	-----	----	----	----	----	----	----	-----	----

**5. E. Sponsored Programme Training:** The sponsored training programmes will be decided later through discussion with the sponsoring agencies of the training programmes.

**6. Front Line Demonstration (FLD) on Oilseed:** As per allotment under Cluster FLD

**7. Front Line Demonstration (FLD) on Pulses:** As per allotment under Cluster FLD

**8. Front Line Demonstration (FLD) on Other than Oilseed and Pulses:**

Season	Crop/ Enterprise	Variety	No. of Demonstrations	Area (ha/ No.)
Pre-Kharif, 2018	Green Manuring with <i>Azolla</i>	<i>Azolla pinnata</i>	75	20 ha
Pre-Kharif, 2017	Ekangi ( <i>K galanga</i> )	<i>K galanga</i>	20	0.26 ha
Kharif, 2018	Weed Management in Kharif Rice	MTU – 7029; MTU - 1010	60	20 ha
Kharif, 2018	Elephant Foot Yam	Bidhan Kusum or Gajendra	20	0.10 ha
Kharif, 2018	Drumstick	PKM – 1	60	2000 seeds
Kharif, 2018	Indian Major Carps (IMC) and Exotic Carps	Inclusion of Yeast and Cobalt Chloride in Fish Feed (Rice Bran + Mustard Cake)	10	1.33 ha
Kharif, 2018	Bhetki ( <i>Lates calcarifer</i> )	<i>Lates calcarifer</i>	10	1.33 ha
Winter, 2018-19	Wheat	HD – 2967 / PBW-343	35	05 ha
Summer, 2019	Weed management in Summer Pulse Black Gram	WBU – 109 / PU – 31	82	10 ha
Post Kharif, 2018	Supply of Supplement with Non-Antibiotic Growth Promoters in Broiler Production	Broiler	10	2500 Numbers of Birds / Farmer
Kharif, 2018	Calcium Supplementation in Black Bengal Does after Kidding	Black Bengal Goat	10	02 Numbers of Does / Demonstration = Total 20 Number of Does
Post Kharif, 2018-19	Introduction of Quail Farming	Japanese Quail	20	30 Numbers of Birds / Demonstration = Total 600 Numbers of Japanese Quail Birds
Kharif, 2018-19	Establishment Of Back Yard Nutrition Garden	Improved High Yielding Varieties of Kharif Vegetables	30	0.2 ha
Winter, 2018-19	Fodder (Oat) + Pulse (Lentil) Intercropping	Oat – Var. Kent Lentil – Var. Moitree	15	2 ha
2018-2019	Participatory video making	Participatory video making on establishment and management of	10	With participatory video making = 10

		seed production units of cereals and pulses		Without participatory video making = 10
--	--	---	--	---

## 9. Seed and Planting Material Production

Seed		Planting Material	
Crop	Area	Crop	Area/ No.
Paddy	2.0 ha	Vegetables	1,15,000 nos.
Pulses (Black Gram, Red Gram, Green Gram, Lentil)	1.0 ha	-	-
Oil Seeds (Rape Seed, Mustard, Sesame)	1.0 ha	-	-
Ekangi ( <i>K galanga</i> ) (Medicinal Plant)	0.75 ha		
Indian Major Carps (IMC) Spawns	8,00,000 Nos.		
Exotic Carps Spawns	4,00,000 Nos.		
<i>Azolla</i>	5.0 q	-	-
Vermi-Compost	15.0 q	Elephant's Foot Yam	5.0 Qtls
Earth-Worms	5000 nos.		

## 10. Extension Activities

Activities	No.	Participants
Field Days	19	731
Scientists Visit to Farmers' Fields	36	3000
Farmers' Visits to KVK	310	3100
Diagnostic Visits	415	828
Radio Talk	47	92
Kisan Mela	25	-
TV programme	1	-
Extension Literature	12	-
Awareness Camp	8	2000
SMS Service	12	12000

## 11. Revolving Fund

<b>Opening Balance as on 01.04.2018</b>	<b>Amount to be invested</b>	<b>Return</b>
Rs. 2.968 Lakhs	Rs. 1.94 lakhs	Rs. 2.192 lakhs

## 12. Expected Fund Utilization

<b>Project</b>	<b>Source</b>	<b>Amount to be received in Lakh (Rs.)</b>
Farmers-Scientists Interaction on Kharif Paddy	ATMA, Birbhum	0.20

### 13. On Farm Trials to be conducted

Thematic Area	Title	Treatments	No. of Farmers
Soil Health Management	Assessment of liming dose in profitable manners in increasing productivity of Garden Pea	<p><b>Farmers' Practice</b> : No liming</p> <p><b>Technology Option - I</b> : Lime as per soil testing</p> <p><b>Technology Option - II</b>: Lime @ 10% of the Lime requirement as per soil testing</p> <p><b>Technology Option - III</b>: Lime @ 20% of the Lime requirement as per soil testing</p> <p>(N. B.: - Recommended fertilizer dose will be applied in all the Technology Options including the Farmers' Practice.)</p>	05
Nutrient Management	Assessment of different micronutrients on productivity of Sesame in post rainy season	<p><b>Farmers' Practice</b> : NPK @ 30-15-15 kg/ha</p> <p><b>Technology Option - I</b> : General recommendation (50-25-25 kg/ha) of NPK and spray of Zn , B and Mo</p> <p><b>Technology Option - II</b>: Soil Testing based NPK and Spraying of Zn, B and Mo</p> <p><b>Technology Option - III</b>: Soil Testing based NPK and soil application of Zn, B and Mo</p>	10
Pest Management	Assessment of insecticide efficiency to control Thrips in Summer Green Gram	<p><b>Farmer's Practice</b>: No insecticide application</p> <p><b>Technology Option – I</b>: Thiomethoxam 25% WG 1gm/lit</p> <p><b>Technology Option – II</b>: Thiomethoxam 25% WG (1gm/lit) + Lamda cyhalothrin 5% SC (0.5 ml. / lit.)</p> <p><b>Technology Option – III</b>: Fipronil + Acetamiprid @ 1.6 ml. / lit. of water (800 ml. / ha)</p>	7
Disease Management	Assessment of specific medicines for the control of ulcerative disease in fish	<p><b>Farmers' Practice</b>: Irregular application of lime and not in required dose</p> <p><b>Technology Option I</b>: Lime (@10 kg / 0.13 ha) + Terramycin (@ 5 – 7 gm. / 100 kg. of Fish Feed)</p> <p><b>Technology Option II</b>: Lime (@10 kg / 0.13 ha) + KMnO<sub>4</sub> (@ 200 gm. / 0.13 ha)</p> <p><b>Technology Option III</b>: Lime (@10 kg / 0.13 ha) + CuSO<sub>4</sub> (@ 1:2000 ppm)</p> <p><b>Fish Feed</b>:- Rice Bran + Mustard Oil Cake (1:1)</p>	5
Integrated Farming System	Assessment of Profitability within Components of Integrated Farming Systems under Fish Based Production System in Lateritic Soil of Birbhhum District	<p><b>Farmers' Practice</b>: Traditional Fish Farming</p> <p><b>Technology Option - I</b>: Composite Fish Culture + Duck Farming + <i>Azolla</i> + Pulses</p> <p><b>Technology Option - II</b>: Composite Fish Culture + Duck Farming + <i>Azolla</i> + Vegetables</p>	7
Broiler Management	Assessment of the Effect of Different Water Sanitizer on the Performance of Broiler Chicken under Small Scale Farming System	<p><b>Control</b>: Farmers' Practice</p> <p><b>Technology Option – I</b>: Didecyl dimethyl ammonium chloride (1 ml. / 20 litres of water)</p> <p><b>Technology Option – II</b>: Chlorine dioxide (1 ml/Litre of Water)</p> <p><b>Technology Option – III</b>: Iodine (1 ml/ 10 litres of Water)</p>	7
Nutrition Management	Evaluation of performance of strategic feed	<p><b>Control</b>: Farmer's Practice</p> <p><b>Technology Option - I</b>: Farmer's Practice + Protein Supplement (MOC 500gm/cow/day)</p>	7



	supplementation to crossbreed milch cattle	Technology Option - II: Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day)	
Group Dynamics	Assessing performance of different group sizes of SHG on annual savings	Farmers' Option = T <sub>1</sub> = 10 members (Small Group) T <sub>2</sub> = 11-15 members (Medium group) T <sub>3</sub> = >15 members (Large Group)	30 (Nos. of SHGs)

#### 14. List of Projects to be implemented

Name of the Project	Fund expected (Rs.)
Short Term Research, ATMA	01.00 Lakh

#### 15. No. of success stories to be developed

a) 2 Success stories

#### 16. Scientific Advisory Committee

Date of SAC Meeting held during 2017-18	Proposed Date during 2018-19
26 <sup>th</sup> . February, 2018	25 <sup>th</sup> . February, 2019

#### 17. Soil and Water Testing

Items	No. of Samples to be analyzed
Soil	200
Water	100

### 18. Staff Position

Sanctioned	In position	If vacant, since when
Programme Coordinator	Vacant	01.11.2016.
SMS (Home Science)	Filled	-
SMS (Agronomy)	Filled	-
SMS (Plant Protection)	Filled	-
SMS (Fishery)	Filled	-
SMS(Agricultural Extension)	Filled	-
SMS (Animal Science)	Filled	-
Programme Assistant (Computer Programmer)	Filled	-
Programme Assistant (Farm Manager)	Filled	-
Programme Assistant	Vacant	From inception
Senior Assistant	Vacant	01.04.2017
Jr. Stenographer-cum-Computer Operator	Filled	-
Driver	Filled	-
Driver	Filled	-
Supporting Staff	Filled	-
Supporting Staff	Filled	-

### 19. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative Building	550 sq. m			
Trainees' Hostel	305sq.m			
Staff Quarters	-	-	-	At present, the staff quarters are not required.
Demonstrations Units:	80 sq.m X 2nos.			

## 20. Fund Requirement and Expenditure

	Expenditure (From April, 2017 to March, 2018) Rs. In lakh	Anticipated Requirement as Per BE (2018-19)  Rs. In lakh
<b>Recurring</b>		
Pay and Allowances	114.536	172.00
TA	01.112	02.00
HRD	00.185	00.50
Contingencies	11.032	32.05
<b>TOTAL(A)</b>	<b>126.865</b>	<b>206.55</b>
<b>Non Recurring</b>		
Works	-	572.25*
Vehicle	-	-
Equipment, Furniture and Furnishing	02.44	12.00**
Soil and Water Testing / Plant Diagnostic Lab	-	00.50
Library	-	00.20
<b>TOTAL (B)</b>	<b>02.44</b>	<b>584.95</b>
<b>TOTAL ( A + B )</b>	<b>129.305</b>	<b>791.50</b>

**N. B.**

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

\* (ii) Administrative Building 1<sup>st</sup>. Floor (550.00 Square Meters) – Rs. 275.00 Lakhs

\* (iii) Trainees' Hostel 1<sup>st</sup>. 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. 07.70 Lakhs and \*\*(ii) Farm Equipments – Rs. 04.30 Lakhs

## **21. Technologies of wide acceptability**

### **(A) Large Scale adaptation of Elephants' Foot Yam:**

Some technologies are getting popular in wide scale. One of these technologies is improved method of cultivation of elephant's foot yam.

Initially, KVK organized training on improved method of cultivation of this crop. Then, the high yielding var. Kavoor and Bidhan Kusum was demonstrated under FLD programme of KVK. At present through Farmers led Extension this crop is cultivated in Birbhum, Burdwan and Murshidabad districts of West Bengal. This crop is cultivated on Commercial basis. In Kharif Season, 2017 in KVK adopted villages 441 quintal Elephant Foot Yam are produced by 41 farmers.

### **(B). Popularization of Kantha Stitch:**

Kantha stitch is one important technology by which rural women are earning good amount of money through the utilization of their leisure time. This Kendra organizes training on Kantha Stich in different interior villages. At present, this work has been acquired as a small scale home based industry. Training was imparted to 54 women of 7 villages. Now it has been spread in 26 villages. There are 7 units in 4 villages where 108 women and girls are working. Before training the farm women did not have any source of income. The net income with the work on kantha stitch varies from Rs. 5,000-15,000 after 3 months of investment.

## 22. Details of On Farm Trials (OFTs)

### OFT-1

<b>Title:</b>	Assessment of liming dose in profitable manners in increasing productivity of Garden Pea
<b>Problem definition:</b>	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.
<b>Hypothesis:</b>	Application of proper liming materials may increase the nodulation, flower set, yield and net return of the cultivation of Garden Pea.
<b>Micro farming situation:</b>	Garden Pea is cultivated in irrigated medium land situation in sandy loam soil with lower pH.
<b>Farmers practice:</b>	Farmers are now cultivating Garden Pea with improved variety and recommended fertilizer dose but without any use of liming materials.
<b>Production system</b>	Paddy – Mustard
<b>Thematic area</b>	Soil Health Management
<b>Objective:</b>	To study the effects of different liming materials according to soil pH. For increasing the productivity and income from Garden Pea cultivation.
<b>Sowing time:</b>	October – November, 2018.
<b>Variety to be used:</b>	Arkel
<b>Details of technology assessment</b>	<b>Farmers' Practice</b> : No liming
	<b>Technology Option - I</b> : Lime as per soil testing
	<b>Technology Option - II</b> : Lime @ 10% of the Lime requirement as per soil testing
	<b>Technology Option - III</b> : 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.)
<b>Source of Technology</b>	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.
<b>No. of replication:</b>	05 (05 nos. of farmers)
<b>Plot size (each replication/ farmers):</b>	0.13 ha
<b>Total plot size:</b>	0.65 ha
<b>Critical input:</b>	a) KVK share: Liming materials, Seeds, fertilizers, Soil Testing b) Farmers' share: Plant protection chemicals and Labours
<b>Performance/Monitoring indicator:</b>	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.
<b>Approximate cost shared by KVK for limes. seeds, fertilizer, soil testing etc.</b>	Rs.10,000.00

## OFT-2

<b>Title:</b>	Assessment of different micronutrients on productivity of Sesame in post rainy season
<b>Problem definition:</b>	Low crop productivity due to low flower set and low pod filling of sesame in post rainy season
<b>Hypothesis:</b>	Proper micronutrient application may increase the flower set, pod filling, yield and net return of sesame cultivation in post rainy season
<b>Micro farming situation:</b>	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 <sup>H</sup> 5.8-6.2
<b>Farmers practice:</b>	Farmers are recently cultivating sesame as diversified crop in post rainy season in rainfed situation with little amount of NPK fertilizers.
<b>Production system</b>	Rice-fallow, sesame-fallow
<b>Thematic area</b>	Nutrient Management
<b>Objective:</b>	To study the effects of micronutrient for enhancement the yield and net return in oilseeds cultivation in post rainy season
<b>Sowing time:</b>	August-September, 2017
<b>Variety to be used:</b>	Sabitri
<b>Details of technology assessment</b>	<b>Farmers' Practice</b> : NPK @ 30-15-15 kg/ha
	<b>Technology Option - I</b> : General recommendation (50-25-25 kg/ha) of NPK and spray of Zn , B and Mo
	<b>Technology Option - II</b> : Soil Testing based NPK and Spraying of Zn, B and Mo
	<b>Technology Option - III</b> : Soil Testing based NPK and soil application of Zn, B and Mo
<b>Source of Technology</b>	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.
<b>No. of replication:</b>	10 (10 nos. of farmers)
<b>Plot size (each replication/ farmers):</b>	0.13 ha
<b>Total plot size:</b>	1.33 ha
<b>Critical input:</b>	a) KVK share: Seeds, fertilizers, micronutrients b) Farmers' share: Plant protection chemicals
<b>Performance/Monitoring indicator:</b>	Soil nutrient status at initial & at harvest, no. of flowers, Yield and net return.
<b>Approximate cost shared by KVK for seeds, fertilizer etc.</b>	Rs.15,000.00

### OFT – 3

Title	Assessment of insecticide efficiency to control thrips in summer green gram.
Problem Definition	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, 2019
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

<b>Title:</b>	Assessment of specific medicines for the control of ulcerative disease in fish
<b>Problem definition:</b>	Rapid spread of ulcerative disease due to absence of right selection of medicine for the disease
<b>Hypothesis:</b>	Use of right medicine and curative measures for ulcer disease can save the fish to a maximum extent
<b>Micro farming situation:</b>	Ponds are in medium land and surrounded by village houses, cattle sheds etc.
<b>Farmers practice:</b>	Farmers apply lime, sometimes, irregularly to prevent fish diseases.
<b>Production system</b>	Extensive system
<b>Thematic area</b>	Disease management
<b>Objective:</b>	To study the effect of certain chemicals and formulations for management of ulcer diseases of fish.
<b>Time:</b>	Winter, 2018
<b>Variety to be used:</b>	Indian Major Carps (IMCs) and Exotic Carps
<b>Details of technology assessment</b>	<p><b>Farmers' Practice:</b> Irregular application of lime and not in required dose</p> <p><b>Technology Option I: Lime (@10 kg / 0.13 ha) + Terramycin (@ 5 – 7 gm. / 100 kg. of Fish Feed)</b></p> <p><b>Technology Option II: Lime (@10 kg / 0.13 ha) + KMnO<sub>4</sub> (@ 200 gm. / 0.13 ha)</b></p> <p><b>Technology Option III: Lime (@10 kg / 0.13 ha) + CuSO<sub>4</sub> (@ 1:2000 ppm)</b></p> <p><b>Fish Feed:- Rice Bran + Mustard Oil Cake (1:1)</b></p>
<b>Source of technology</b>	<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.
<b>No. of replication:</b>	5 (5 nos. of farmers)
<b>Pond size (each treatments/farmers):</b>	0.13 ha
<b>Total pond area:</b>	(0.13 X 4 X 5) ha = 2.6 ha
<b>Critical input:</b>	a) KVK share: Lime, Medicine, Chemicals etc. b) Farmers' share: Fish feed + fish stocking
<b>Performance/Monitoring indicator:</b>	Survival rate and yield of fish
<b>Approximate cost shared by KVK for seeds, fertilizer etc.</b>	Rs.15,000.00



## OFT-5

<b>Title</b>	Assessment of profitability within components of integrated farming systems under fish based production system in lateritic soil of Birbhum District
<b>Problem definition</b>	Lack of knowledge in integration of components in proper way for maximum profit.
<b>Hypothesis</b>	Integration of components in proper way may increase the farm profitability.
<b>Farmers' practice</b>	In fish based production system farmers cultivate fish only in very traditional way
<b>Production System</b>	Fish Based
<b>Thematic Area</b>	Integrated Farming System
<b>Source</b>	DARE/ICAR Annual Report, 2008-09, pp. 12-14 Fertilizer News, 46 (11), pp. 53-55 and 57-58.
<b>Objective</b>	To integrate the components in proper way and maximize the profit
<b>Details of technology assessment</b>	<b>Farmers' Practice:</b> Traditional Fish Farming
	<b>Technology Option - I:</b> Composite Fish Culture + Duck farming + <i>Azolla</i> + Pulses
	<b>Technology Option - II:</b> Composite Fish Culture + Duck farming + <i>Azolla</i> + Vegetables
<b>Replication</b>	7 nos.
<b>Critical input</b>	Fish finger lings, Ducklings, <i>Azolla</i> , Vegetable seeds, Pulse seeds
<b>Performance/Monitoring indicator</b>	Production and Economics of farming systems
<b>Total cost of KVK share</b>	Rs. 90,000.00

## OFT-6

<b>Title</b>	Assessment of the effect of different water sanitizer on the performance of Broiler chicken under small scale farming system
<b>Problem Definition</b>	Poor drinking water quality of commercial broiler farm negatively affected performance
<b>Hypothesis</b>	Providing a clean and safe water supply is critical to ensuring that broilers perform at their best.
<b>Thematic Area</b>	Broiler Management
<b>Objective</b>	To comparatively study and assess the performance of the Broiler chicken under the Trial
<b>Micro Farming Situation</b>	Upland farming system
<b>Production System</b>	Deep litter farming system.
<b>Farmers' Practice</b>	Farmers are rearing 2000 – 2500 Broiler Chicken per Household under Deep litter farming system.
<b>Time</b>	June, 2018
<b>Variety / Breed to be used</b>	Broiler Poultry
<b>Details of Technology Assessment</b>	<b>Control:</b> Farmers' Practice <b>Technology Option – I:</b> Didecyl dimethyl ammonium chloride (1 ml. / 20 litres of water) <b>Technology Option – II:</b> Chlorine dioxide (1 ml / litre of water) <b>Technology Option – III:</b> Iodine (1 ml / 10 litres of water)
<b>Source of Technology</b>	Notes on Poultry Housing and Management, CARI, Ijatnagar.
<b>Numbers of Replications</b>	07 (Seven)
<b>Numbers of Birds per Replication</b>	2400 (600 nos. of birds under each treatment)
<b>Total Numbers of Birds</b>	16800
<b>Critical Input</b>	a. KVK Share: Water sanitizer, Medicine, Vaccine b. Farmers' Share: Feed, Medicine, Birds
<b>Performance / Monitoring Indicators</b>	Body Weight gain, Feed conversion Ratio, Mortality percentage.
<b>Approximate Costs shared by the KVK</b>	Rs. 30,000.00 (Rupees Thirty thousand) only.

## OFT- 7

<b>Title</b>	Evaluation of performance of strategic feed supplementation to crossbreed milch cattle
<b>Problem Definition</b>	Poor feeding practices and the low availability of quality feeds in unorganized dairy farming by small and marginal farmer.
<b>Hypothesis</b>	Adequate nutrition plays important role in dairy cattle productivity.
<b>Thematic area</b>	Nutrition management
<b>Objective</b>	Assess the performance of strategic feed supplementation to improve the productivity of animal
<b>Farming situation</b>	Upland farming system
<b>Production system</b>	Semi intensive system
<b>Farmer's Practice</b>	Small farmers keep 2-3 crossbreed milch cows under semi-intensive system.
<b>Time</b>	May, 2018
<b>Variety/Breed to be used</b>	Crossbreed cow
<b>Details of technology Assessment</b>	<b>Control:</b> Farmer's Practice <b>Technology Option - I:</b> Farmer's Practice + Protein Supplement (MOC 500gm/cow/day) <b>Technology Option - II:</b> Farmer's Practice + Homemade feed Supplement (1.5 Kg /cow/day)
<b>Sources of Technology</b>	<i>Effect of protein supplementation on milk production and metabolism of dairy cows grazing tropical grass, M. A. Danes, Chagas, L. J., Pedroso, A. M. and Santos, F. A. (2013). Effect of protein supplementation on milk production and metabolism of dairy cows grazing tropical grass, J. Dairy. Sci., 96(1): 407-419.</i>
<b>Numbers of Replications</b>	7
<b>Number of cow per replication</b>	3
<b>Total number of cow</b>	21
<b>Critical Input</b>	a. KKV Share: Feed ingredients, medicine b. Farmer's Share: Cow
<b>Performance/Monitoring Indicators</b>	Milk yield, Lactation length, Milk fat percentage and SNF
<b>Approximate cost shared by KVK</b>	Rs.40,000/

## OFT – 8

<b>Title</b>	<b>Assessing performance of different group sizes of SHG on annual savings</b>
<b>Problem Definition</b>	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.
<b>Hypothesis</b>	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.
<b>Present Situation</b>	Generally in West Bengal situation, the majority of SHGs are having 10 numbers of members.
<b>Prevalent Practice</b>	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].
<b>Group Formation System</b>	Generally 10 – 20 numbers of persons of a locality or nearby localities can form a Self Help Group.
<b>Thematic Area</b>	Group dynamics
<b>Objective</b>	To assess the extent of annual savings by different SHGs having different number sizes of group members.
<b>Time</b>	2018 – 2019
<b>SHGs to be involved</b>	Various SHGs having a diverse numbers of group members.
<b>Details of Treatments</b>	<b>Farmers’ Option = T<sub>1</sub> = 10 members (Small Group)</b> T <sub>2</sub> = 11-15 members (Medium group) T <sub>3</sub> = >15 members (Large Group)
<b>Source of Technology</b>	<b>Overview of Frontline Extension Tools and Designing OFTs in Extension, R. Roy Burman, ICAR-IARI, New Delhi</b>
<b>Numbers of Replications</b>	10 (Ten)
<b>Numbers of SHGs per Member Size Group</b>	10 (Ten)
<b>Total Numbers of SHGs</b>	30 (Thirty)
<b>Critical Input</b>	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.
<b>Performance / Monitoring Indicators</b>	<ul style="list-style-type: none"> <li>• Savings from own contribution of members</li> <li>• Saving from interest of loan to its member and outsider</li> <li>• Income from different economic activities of the group</li> <li>• Revolving fund receive from block</li> <li>• Savings from donation</li> <li>• Other sources of income-Income from lottery, Harvesting of crops, organizing stall in fairs, social festivals etc.</li> </ul>
<b>Approximate Costs shared by the KVK</b>	Rs. 5,000.00



# **ACTION PLAN**

**(APRIL, 2018 - MARCH, 2019)**

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

Presented at

**The Zonal Workshop of the Krishi Vigyan  
Kendras (KVKs) of West Bengal, Odisha and  
Andaman & Nicobar Islands [Zone - V, Indian  
Council of Agricultural Research (ICAR)]**

At

**Orissa University of Agriculture and Technology  
(OUAT), Bhubaneswar - 751003, Odisha**

**On May 26<sup>th</sup>. to 27<sup>th</sup>., 2018**

# Contents

Sl. No	Particulars	Page No.
1	Description of Agro-Climatic Zone of the Operational Area	1
2	Micro-Farming Situation identified	2
3	Characteristics of Farming Situation	3
4	Thrust area identified through Agro-Eco-System Analysis	3
	<b>Executive Summary</b>	<b>4</b>
5	<b>Training Programmes</b>	<b>5 – 28</b>
A	Training Programme for Practicing Farmers/ Farm Women	5 – 20
B	Training Programme for Rural Youth	21 – 22
C	Training Programme for Extension Functionaries	23 – 24
D	FLD Training	25 – 28
E	Sponsored Training Programme	28
6	Front Line Demonstration (FLD) on Oilseeds	29
7	Front Line Demonstration (FLD) on Pulses	29
8	Front Line Demonstration (FLD) on Other than Oilseeds and Pulses	29 – 30
9	Seed and Planting Material Production	30
10	Extension Activities	30
11	Revolving Fund	31
12	Expected Fund Utilization	31
13	On Farm Trials to be conducted	32 – 33
14	List of project to be implemented	33
15	No. of success stories to be developed	33
16	Scientific Advisory Committee	33
17	Soil and Water Testing	33
18	Staff position	34

19	Status of Infrastructure	34
20	Fund Requirement and Expenditure	35
21	Technology of wide acceptability	36
22	Details of OFT	37 - 44