ACTION PLAN 2024

1. Name of the KVK: Jhargram Krishi Vigyan Kendra

Address	Telephone	E mail
Kadamkanan, P.O: Jhargram, Dist: Jhargram, West Bengal, Pin – 721507	+91 8617071610	jhargramkvk@gmail.com

2. Name of Host Organization: **Bidhan Chandra Krishi Viswavidyalaya**

Address	Telephone		E mail
	Office	FAX	
P.O. Krishi Viswavidyalaya, Mohanpur, Dist- Nadia, West Bengal, India, Pin-741252	(03473)-222269		bckvvc@gmail.com

3.Training Programme to be Organized (January 2024 to December 2024)

(a) Farmers and farmwomen

Discipline – Agronomy

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Crop Diversification	Seed bed preparation of Boro rice	1	1	Off	1st wk/Mar/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Boro cultivation	1	1	Off	1st wk/Mar/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Sesamum cultivation	1	1	Off	1st wk/Mar/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Sesamum cultivation	1	1	On	1st wk/Mar/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Kharif pulses cultivation	1	1	Off	1st wk/April/24	3	2	3	2	8	2	14	6	20

Crop Diversification	Improved production techniques of Kharif pulses cultivation	1	1	On	1st wk/April/24	3	2	3	2	8	2	14	6	20
Integrated Crop Management	Importance and technique of green manuring crop production.	1	1	Off	2nd wk/May/24	3	2	3	2	8	2	14	6	20
Integrated Crop Management	Cultivation practices of kharif groundnut	1	1	On	4th wk/May/24	3	2	3	2	8	2	14	6	20
Integrated Crop Management	Cultivation practices of kharif rice	1	1	On	4th wk/May/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Technique of *Kharif* Pulse Production in rain fed situation	1	1	Off	1st wk/Jun/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Technique of kharif rice Production in rain fed situation	1	1	On	1st wk/Jun/24	3	2	3	2	8	2	14	6	20
Crop Diversification	Paddy production by use of different method of transplanting	2	2	Off	2nd wk/July/24	6	4	6	4	16	4	28	12	40
Crop Diversification	Improved production techniques of mustard	1	1	On	1st wk/October/ 24	3	2	3	2	8	2	14	6	20
Seed Production	Improved Package of Practices of Rabi-Summer Oilseeds and pulses seed production	1	1	Off	3rd wk/Dec/24	3	2	3	2	8	2	14	6	20
Total		**15**	**15**			**45**	**30**	**45**	**30**	**120**	**30**	**210**	**90**	**300**

Discipline – Horticulture

Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Spices Cultivation	Commercial cultivation of different spices.	1	1	Off	1st wk/Feb/2024	3	2	4	1	7	3	14	6	20
Cultivation of fruit crops	Latest scientific cultivation technologies of fruit crops.	1	1	Off	2nd wk/Mar/2024	3	2	3	2	8	2	14	6	20
Cultivation of Kharif onion	Kharif onion cultivation	1	1	Off	1st wk/April/2024	2	2	4	2	8	2	14	6	20
Nursery Management	Propagation techniques of different horticultural crops	1	1	Off	3rd wk/April/2024	4	4	2	3	5	2	11	9	20
Cultivation of veg.	Organic farming of vegetable crops	1	1	Off	2nd wk/May/2024	3	2	3	2	8	2	14	6	20
Cultivation of Flower	Commercial cultivation of Flowering plants.	1	1	Off	1st wk/June/2024	2	3	3	3	4	5	9	11	20
Nutritional Garden	Kitchen garden development	1	1	Off	2nd wk/Sep/2024	2	2	4	2	8	2	14	6	20
Cultivation of Medicinal and aromatic crop	Medicinal and aromatic crop cultivation	1	1	Off	1st wk/Dec/2024	2	3	3	3	4	5	9	11	20
	Total	**8**	**8**			**21**	**20**	**26**	**18**	**52**	**23**	**99**	**61**	**160**

Discipline – Plant Protection

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
IPM & IDM	Management of insect pest and disease of major Rabi Vegetables grown in the dist.	1	1	Off	3rd Week of January 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease of Major Pulse and Oilseed crops grown in the district	1	1	Off	2nd Week of Feb. 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and diseases of Groundnut.	1	1	On	4th Week of May 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Storage grain pest management and Method of seed treatment of major Kharif crops grown in the districts.	1	1	Off	3rd Week of June 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and diseases of Aman Paddy.	1	1	Off	2nd Week of July 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease major cucurbits grown in the districts..	1	1	Off	4th Week of Aug. 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease of Major fruit crops of the district.	1	1	On	1st Week of Sept. 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Disease and pest management in the nursery bed of vegetables.	1	1	On	3rd Week of Oct. 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease of Major Cole crops grown in the district.	1	1	On	2nd Week of Nov. 2024	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease of potato & Brinjal.	1	1	On	1st Week of Dec. 2024	3	3	4	3	3	4	10	10	20
TOTAL		**10**	**10**			**30**	**30**	**40**	**30**	**30**	**40**	**100**	**100**	**200**

Discipline – Agricultural Extension

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Capacity Building	Awareness on different State Govt Schemes related to agriculture	1	1	Off	4th wk/ Jan/ 2024	3	2	3	2	8	2	14	6	20
Capacity Building & income generation	Awareness and management of SHG groups through different income generating activity.	1	1	Off	3rd wk/ Feb/2024	3	2	3	2	8	2	14	6	20
Capacity building for ICT application	Awareness of mobile application and other cyber technologies for betterment of farming community	1	1	On	3rd wk/ Mar/2024	3	2	3	2	8	2	14	6	20
Income Generation	Income Generation of the SHG groups through processing of different vegetables	1	1	On	4th wk/ Apr/2024	3	2	3	2	8	2	14	6	20
Formation and Management of SHGs	Formation and Management of SHGs for better operation and women empowerment	1	1	Off	3rd wk/ May/2024	3	2	3	2	8	2	14	6	20
Capacity Building	Orientation and capacity building of the Farmers farm Women, SHGs and village level workers for technology dissemination in grass root level.	1	1	On	2nd wk/ Oct/2024	3	2	3	2	8	2	14	6	20

Capacity Building and income generation	Operational techniques of Sal leaf plate sewing and moulding machine by the SHG womens.	1	1	On	1st wk/ Nov/ 2024	3	2	3	2	8	2	14	6	20
ICT in Agriculture	Use of Agril related Websites for information benefits and information about govt schemes.	1	1	On	1st wk/ Dec/2024	3	2	3	2	8	2	14	6	20
Total		**8**	**8**	**-**	**-**	**24**	**16**	**24**	**16**	**64**	**16**	**112**	**48**	**160**

Discipline – Livestock Production

Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Disease Management	Prevention & Control of Commonly occurring viral, bacterial and parasitic diseases in Poultry	1	1	Off	4th Week/Aug./2024	3	2	3	2	8	2	14	6	20
Cattle Farming	Modern technique of Cattle Farming	1	1	Off	2nd Week/Sep/2024	3	2	2	2	8	2	14	6	20
Poultry Farming	Modern technique of Poultry Farming	1	1	Off	4th Week/Sep/2024	3	2	3	2	8	2	14	6	20
Duck Farming	Modern technique of Duck Farming	1	1	Off	1st Week/Oct/2024	3	2	3	2	8	2	14	6	20
Goat Farming	Modern technique of Goat Farming	1	1	Off	3rd Week/Oct/2024	3	2	3	2	8	2	14	6	20
Pig Farming	Modern technique of Goat Farming	1	1	Off	2nd Week/Nov./2024	3	2	3	2	8	2	14	6	20
Total		**06**	**06**	**-**	**-**	**18**	**12**	**18**	**12**	**48**	**12**	**84**	**36**	**120**

Discipline: Soil Science

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Soil Fertility Management	Judicious use of fertilizer in vegetable cultivation	1	1	Off	3rd wk/Jan/2024	2	1	5	6	4	2	11	9	20
Micro nutrient deficiency in crops	Micronutrient application in vegetable cultivation	1	1	Off	3rd wk/Jan/2024	2	1	5	6	4	2	11	9	20
Soil Fertility Management	Balanced fertilizer application on vegetable field	1	1	Off	4th wk/Mar/2024	2	1	5	6	4	2	11	9	20
Management of problematic soil	Application of lime to neutralize soil pH in rice crop field	1	1	Off	3rd wk/April/2024	2	1	5	6	4	2	11	9	20
Soil Fertility Management	Importance and technique of green manuring crop production.	1	1	Off	4th wk/April/2024	3	2	3	2	8	2	14	6	20
Soil Fertility Management	Balanced fertilizer application on vegetable field	1	1	Off	2nd wk/May/2024	2	1	5	6	4	2	11	9	20
Soil Fertility Management	Importance and technique of green manuring crop production.	1	1	Off	4th wk/May/2024	3	2	3	2	8	2	14	6	20
Natural Farming in	Natural Farming components in Rice crop.	1	1	Off	2nd wk/Jun/2024	2	1	5	6	4	2	11	9	20
Integrated Nutrient Management	Balanced fertilizer in Rice crop.	1	1	Off	3rd wk/Jun/2024	2	1	5	6	4	2	11	9	20
Micro nutrient deficiency in crops	Foliar application of micronutrient in rice	1	1	Off	4th wk/July/2024	2	1	5	6	4	2	11	9	20

Production and use of Natural Farming components	Use of jeevamruth and beejamruth in kitchen garden and in production of planting materials	1	1	Off	2nd wk/Aug/2024	2	1	5	6	4	2	11	9	20
Management of problematic soil	Application of lime to neutralize soil pH for vegetable cultivation	1	1	Off	3rd wk/ Sept/2024	2	1	5	6	4	2	11	9	20
Micro nutrient deficiency in crops	Use of micronutrient for vegetable production	1	1	Off	3rd wk/ Oct/2024	2	1	5	6	4	2	11	9	20
Micro nutrient deficiency in crops	Importance and use of micronutrient application for pulse and oilseed production	1	1	Off	4th wk/Nov/2024	2	1	5	6	4	2	11	9	20
Production and use of organic inputs	Production techniques of vermin compost	1	1	Off	2nd wk/Dec/2024	2	1	5	6	4	2	11	9	20
Total		**15**	**15**	-	-	**32**	**17**	**71**	**82**	**68**	**30**	**171**	**129**	**300**

(b) Rural youths

Discipline – Agronomy

Thematic area	**Title of Training**	**No.**	**Duration**	**Venue On/Off**	**Tentative Date**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Seed Production	Quality seed production of Cereals.	1	7	On	2nd wk/July/2024	2	1	2	2	6	2	10	5	15
Seed Production	Quality seed production of oilseeds Cereals.	1	7	On	2nd wk/Oct/2024	2	1	2	2	6	2	10	5	15
Seed Production	Quality seed production of pulse Cereals.	1	7	On	1st wk/Nov/2024	2	1	2	2	6	2	10	5	15
Total		**03**	**21**	**-**	**-**	**6**	**3**	**6**	**6**	**18**	**6**	**30**	**15**	**45**

Discipline – Horticulture

Thematic area	Title of Training	No.	Duration(Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Nursery Management	Nursery Management (Gardener Training).	1	2	On	1st wk/May/2024	3	1	2	1	4	4	9	6	15
Protected Cultivation	Protected cultivation of high value horticultural Crops	1	2	On	2nd wk/Sept/2024	2	1	2	1	6	3	10	5	15
Total		**02**	**04**	**-**	**-**	**5**	**2**	**4**	**2**	**10**	**7**	**19**	**11**	**30**

Discipline - Agril. Extension

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Mobilization of Social Capital	Agro- eco system analysis through different Tools & techniques	1	05	On	1stwk/Jun/2024	2	1	3	2	4	3	9	6	15
Mushroom cultivation	Procedure of mushroom cultivation	1	05	On	2ndwk/August/2024	2	1	3	2	4	3	9	6	15
Total		**02**	**10**	**-**	**-**	**4**	**2**	**6**	**4**	**8**	**6**	**18**	**12**	**30**

Discipline - Soil Science

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Natural Farming	Production of Jeevamruth and other components of Natural Farming	1	5	On	1stwk/Nov/2024	2	1	2	2	6	2	10	5	15
Soil and water testing	Methods of soil and water testing	1	5	On	3rdwk/Dec/2024	2	1	5	6	4	2	11	9	20
Total		**02**	**10**			**4**	**2**	**7**	**8**	**10**	**4**	**21**	**14**	**35**

Discipline – Plant Protection

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Bee Keeping	Modern Technique of Bee Keeping.	1	7	On	3rd Week of July 2024	4	2	5	2	5	2	14	6	20
Entrepreneurial development of youths	Development of PhasalSurakshaMitra	1	7	On	2nd Week of Sept. 2024	4	2	5	2	5	2	14	6	20
Bee Keeping	Modern Technique of Bee Keeping.	1	7	On	2nd Week of Octo. 2024	4	2	5	2	5	2	14	6	20
Total		**03**	**21**			**12**	**6**	**15**	**6**	**15**	**6**	**42**	**18**	**60**

(c) Extension functionaries

Discipline – Agronomy

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Productivity enhancement in field crops	Orientation training on Productivity enhancement in field crops	1	1	Off	2nd wk/Jun/2024	3	2	3	2	8	2	14	6	20
Integrated nutrient management	Use of different nutrient in crops to increase yield in field crops	1	1	On	3rdwk/Nov/2024	3	2	3	2	8	2	14	6	20
Total		**02**	**02**	**-**	**-**	**6**	**4**	**6**	**4**	**16**	**4**	**28**	**12**	**40**

Discipline – Horticulture

Thrust area/ Thematic area	Title of Training	No.	Duration (Days)	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Post harvest management	Post harvest management and different processing techniques of some horticultural crops	1	2	On	3rd wk/Dec/2024	3	2	2	2	4	2	9	6	15
	Total	**1**				**3**	**2**	**2**	**2**	**4**	**2**	**9**	**6**	**15**

Discipline – Agril. Extension

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Value addition	Processing and value addition of horticultural fruits and Vegetables	1	1	Off	3rdwk/July/2024	2	1	8	2	9	3	19	6	25
Capacity building for ICT application	Awareness of ICT Application in Agriculture	1	1	Off	4thwk/September/2024	3	2	3	2	8	2	14	6	20
Total		**2**	**2**	**-**	**-**	**5**	**3**	**11**	**4**	**17**	**5**	**33**	**12**	**45**

Discipline – Plant protection

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Integrated Pest Management	Concept, Principal and method of Biological control of insect pest and diseases.	1	1	On	2nd Week of Aug. 2024	4	2	5	2	5	2	14	6	20
Total		**01**	**1**	**-**	**-**	**4**	**2**	**5**	**2**	**5**	**2**	**14**	**6**	**20**

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

Farmers and Farm women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification	11	33	22	55	33	22	55	88	22	110	154	66	220
Integrated Farming													
Water management													
Seed production	1	3	2	5	3	2	5	8	2	10	14	6	20
Nursery management													
Integrated Crop Management	3	9	6	15	9	6	15	24	6	30	42	18	60
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL	**15**	**45**	**30**	**75**	**45**	**30**	**75**	**120**	**30**	**150**	**210**	**90**	**300**
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	1	2	2	4	4	2	6	8	2	10	14	6	20
Nursery raising	1	4	4	8	2	3	5	5	2	7	11	9	20
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Cultivation of Vegetable	1	3	2	5	3	2	5	8	2	10	14	6	20
TOTAL	**3**	**9**	**8**	**17**	**9**	**7**	**16**	**21**	**6**	**27**	**39**	**21**	**60**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit	1	3	2	5	3	2	5	8	2	10	14	6	20
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
TOTAL	1	3	2	5	3	2	5	8	2	10	14	6	20
c) Ornamental Plants													
Nursery Management													
Management of potted plants	1	2	3	5	3	3	6	4	5	9	9	11	20
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL	**1**	**2**	**3**	**5**	**3**	**3**	**6**	**4**	**5**	**9**	**9**	**11**	**20**
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	1	3	2	5	4	1	5	7	3	10	14	6	20
Processing and value addition													
Others, if any													
TOTAL	**1**	**3**	**2**	**5**	**4**	**1**	**5**	**7**	**3**	**10**	**14**	**6**	**20**
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology	1	2	3	5	3	3	6	4	5	9	9	11	20
Post harvest technology and value addition													
Others, if any													
TOTAL	**1**	**2**	**3**	**5**	**3**	**3**	**6**	**4**	**5**	**9**	**9**	**11**	**20**
III. Soil Health and Fertility Management													
Soil fertility Management	5	12	7	19	21	22	43	28	10	38	61	39	100
Soil and Water Conservation													
Integrated Nutrient Management	1	2	1	3	5	6	11	4	2	6	11	9	20
Production and use of organic inputs	1	2	1	3	5	6	11	4	2	6	11	9	20
Management of Problematic soils	2	4	2	6	10	12	22	8	4	12	22	18	40
Micro nutrient deficiency in crops	4	8	4	12	20	24	44	16	8	24	44	36	80
Nutrient Use Efficiency													
Soil and Water Testing													
Production and use of Natural Farming inputs	2	4	2	6	10	12	22	8	4	12	22	18	40
TOTAL	**15**	**32**	**17**	**49**	**71**	**82**	**153**	**68**	**30**	**98**	**171**	**129**	**300**
IV. Livestock Production and Management													
Dairy Management	1	3	2	5	3	2	5	8	2	10	14	6	20

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
Poultry Management	1	3	2	5	3	2	5	8	2	10	14	6	20
Piggery Management	1	3	2	5	3	2	5	8	2	10	14	6	20
Rabbit Management													
Disease Management	1	3	2	5	3	2	5	8	2	10	14	6	20
Duck farming	1	3	2	5	3	2	5	8	2	10	14	6	20
Production of quality animal products													
Others, if any (Goat farming)	1	3	2	5	3	2	5	8	2	10	14	6	20
TOTAL	**6**	**18**	**12**	**30**	**18**	**12**	**30**	**48**	**12**	**60**	**84**	**36**	**120**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	1	2	2	4	4	2	6	8	2	10	14	6	20
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													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL	1	2	2	4	4	2	6	8	2	10	14	6	20
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Conservation tillage Technology													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Drudgery Reduction Farm Machinery													
Soil and water conservation practices													
TOTAL													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
VII. Plant Protection													
Integrated Pest Management	5	15	15	30	20	15	35	15	20	35	50	50	100
Integrated Disease Management	5	15	15	30	20	15	35	15	20	35	50	50	100
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	**10**	**30**	**30**	**60**	**40**	**30**	**70**	**30**	**40**	**70**	**100**	**100**	**200**
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
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													
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 Dynamics													
Leadership development	1	3	2	5	3	2	5	8	2	10	14	6	20
Group dynamics	1	3	2	5	3	2	5	8	2	10	14	6	20

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
Formation and Management of SHGs	3	9	6	15	9	6	15	24	6	30	42	18	60
Mobilization of social capital	1	3	2	5	3	2	5	8	2	10	14	6	20
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Capacity building for ICT application	2	6	4	10	6	4	10	16	4	20	28	12	40
TOTAL	**8**	**24**	**16**	**40**	**24**	**16**	**40**	**64**	**16**	**80**	**112**	**48**	**160**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**62**	**170**	**125**	**295**	**224**	**188**	**412**	**382**	**151**	**533**	**776**	**464**	**1240**

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	1	2	1	3	3	2	5	4	3	7	9	6	15
Bee-keeping	2	8	4	12	10	4	14	10	4	14	28	12	40
Integrated farming													
Seed production	3	6	3	9	6	6	12	18	6	24	30	15	45
Production of organic inputs	1	2	1	3	2	2	4	6	2	8	10	5	15
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops	1	2	1	3	2	1	3	6	3	9	10	5	15
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	3	1	4	2	1	3	4	4	8	9	6	15
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
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	1	4	2	6	5	2	7	5	2	7	14	6	20
Others if any (ICT application in agriculture)	1	2	1	3	3	2	5	4	3	7	9	6	15
Soil and water testing	1	2	1	3	5	6	11	4	2	6	11	9	20
TOTAL	12	31	15	46	38	26	64	61	29	90	130	70	200

Extension Functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		SC			ST			Other					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	1	3	2	5	3	2	5	8	2	10	14	6	20
Integrated Pest Management	1	4	2	6	5	2	7	5	2	7	14	6	20
Integrated Nutrient management	1	3	2	5	3	2	5	8	2	10	14	6	20
Rejuvenation of old orchards													
Value addition	2	5	3	8	10	4	14	13	5	12	28	12	40
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application	1	3	2	5	3	2	5	8	2	10	14	6	20
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
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													
Water Management													
TOTAL	**6**	**18**	**11**	**29**	**24**	**12**	**36**	**42**	**13**	**49**	**84**	**36**	**120**

4. Frontline demonstration to be conducted*

Discipline – Agronomy

Crop: Kharif Paddy, Groundnut, Green gram & Sunflower
Thrust Area: Yield enhancement in per unit area.
Thematic Area: Production Management
Season: Kharif & Rabi
Farming Situation: Rain fed and irrigated

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.	Kharif Paddy (Variety- IET-2233)	2	Integrated Weed Management	Weed infestation &Yield	Pretilachlor 50 % EC	5000.00	3000.00	2	1	2	1	8	1	12	4	15
2.	Groundnut (Variety-K-1812 CS)	2	Sulphar + (Mancozeb + Carbandizem)	Yield, Disease	Seed, Sulphar & Fungicide (Mancozeb + Carbandizem), ppc	35000.00	25000.00	2	1	2	0	8	2	12	4	15
3.	Green gram Variety- Samrat (PDM-84-139)	2	Rhizobium culture medium + Micronutrient mixture	Yield	Seed + Rhizobium culture medium + Micronutrient mixture	20000.00	15000.00	2	1	2	0	8	2	12	4	15
4.	Sunflower (Hybrid variety- Suriya-51)	2	Introduce new variety in new area	Yield	Seed & Micronutrient mixture	15000.00	10000.00	2	1	2	1	8	1	12	4	15

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Kharif Paddy, Groundnut, Green gram & Sunflower Mustard	04	Farmers and Ext. Personal	1	KVK/Farmers field On and Off	6	3	6	3	24	6	36	12	48
Field Days	Evaluation and assessment	04	Farmers and Ext. Personal	1	KVK/Farmers field, On and Off	7	3	12	3	34	6	53	12	65

Discipline – Horticulture

Crop: Cabbage, Cauliflower, Marigold, Dragon Fruit, Cashew
Thrust Area: Poor yield
Thematic Area: Nutrient Management, Organic cultivation, Flower cultivation, Intercropping
Season: Kharif, Rabi
Farming Situation: Rainfed, Irrigated

Sl. No.	Crop & variety	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	Lime/lemon/Malta/ Mosambi/Chilli	0.20	Intercropping of Chilli in Citrus Orchard.	Yield, B:C ratio	Seed/Seedling	27500.00	25000.00	8	7	0	0	0	0	8	7	15
2	Cabbage/ Cauliflower/Winter Vegetable	0.50	Organic vegetable cultivation	Yield, B:C ratio	Seed/seedling, organic fertilizer & pesticide	78000.00	69000.00	3	2	6	4	8	7	17	13	30
3	Marigold (Serakol)	0.75	Promotion of Marigold cultivation	Yield, B:C ratio	Cuttings	75000.00	70000.00	10	10	0	0	0	0	10	10	20

4	Dragon fruit	0.40	Promotion of Dragon Fruit Cultivation	Yield, B:C ratio	Cuttings	400000.00	400000.00	15	15	0	0	0	0	15	15	30
5	Cashew	0.20	Promotion of dwarf Cashew variety: Bidhan Bonsai	Yield, B:C ratio	Sapling	30000.00	24000.00	15	15	0	0	0	0	15	15	30

Extension and Training activities under FLD:

Activity	**Title of Activity**	**No.**	**Clientele**	**Duration**	**Venue On/Off**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Training	Intercropping of Chilli in Citrus Orchard.	1	PF	1 Day	On/Off	8	7	0	0	0	0	8	7	15
Training	Organic vegetable cultivation	1	PF	1 Day	On/Off	3	2	6	4	8	7	17	13	30
Training	Promotion of Marigold cultivation	1	PF	1 Day	On/Off	10	10	0	0	0	0	10	10	20
Training	Promotion of Dragon Fruit Cultivation	1	PF	1 Day	On/Off	15	15	0	0	0	0	15	15	30
Training	Promotion of dwarf Cashew variety: Bidhan Bonsai	1	PF	1 Day	On/Off	15	15	0	0	0	0	15	15	30

Discipline – Plant protection

Crop: Groundnut, Paddy, Bitterguard
Thrust Area: IDM & IPM
Thematic Area: Awareness about improved package & practices of Crop & Veg., other Horticultural corps, Livestock and fish production for better return
Season: Kharif and Rabi
Farming Situation: Rain fed Farming

Sl. No.	Crop & variety	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	Groundnut, Improved Variety	02 ha./ 07 Units	Control of Tikka Disease in Groundnut	% of disease infestation, Efficacy of pesticides, yield	Fungicide	60000 /ha.	58000/ha.	1	1	2	2	2	2	5	5	10
2	Paddy High yielding	02 ha./ 07 Units	Control of BPH in Paddy	% of Pest infestation, Efficacy of pesticides, yield	Insecticides	520000 /ha.	48000/ha.	1	1	2	2	2	2	5	5	10
3	Bitter guard, Improved Variety	02 ha./ 07 Units	Control of Fruit fly in Bitter guard	% of Pest infestation, Efficacy of pesticides, yield	Insecticides	280000 /ha.	270000/ha.	1	1	1	1	3	3	5	5	10

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Control of Tikka Disease in Groundnut	01	Practicing Farmers	01 day	On	01	01	02	02	02	02	05	05	10
Field Days	Effect of technology for controlling Tikka Disease in Groundnut	02	Do	02 days	Off	04	08	04	10	08	16	16	34	50

Training	Control of BPH in Paddy	01	Do	01 day	On	01	01	02	02	02	02	05	05	10
Field Days	Effect of technology for controlling BPH in Paddy	02	Do	02 days	Off	04	08	04	10	08	16	16	34	50
Training	Control of Fruit fly in Bitter guard.	01	Do	01 day	On	01	01	01	01	03	03	05	05	10
Field Days	Effect of technology Fruit fly in Bitter guard.	02	Do	02 days	Off	04	08	04	10	08	16	16	34	50

Discipline – Soil Science

Crop: Rice
Thrust Area: Poor yield
Thematic Area: Nutrient Management, Natural Farming Techniues
Season: Kharif and Rabi
Farming Situation: Irrigation and Rainfed

Sl. No.	**Crop & variety**	**Proposed Area (ha)/ Unit (No.)**	**Technology package for demonstration**	**Parameter (Data) in relation to technology demonstrated**	**Cost of Cultivation (Rs.)**			**No. of farmers / demonstration**								
								SC		**ST**		**Other**		**Total**		
					Name of Inputs	**Demo**	**Local**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
1	MTU- 7029	0.5	Application of Jeevamruth in Kharif paddy Cultivation	Yield, B:C ratio	Chelated Zinc	30000	24000	2	3	10	0	12	3	24	6	30
2	MTU-7029	0.5	Lime Application and Ghan Jeevamruth on Kharif Paddy	Yield, B:C ratio	Lime	28000	25000	3	2	6	4	8	7	17	13	30

3	Novcom Compost	0.5	Production and application of NOVCOM compost in Vegetable Cultivation	Yield, B:C ratio	Novcom Solution	-	-	10	10	2	2	5	1	17	13	30
4	Lowcost Vermicompost	0.5	Production of Vermicompost in HDPE pits and its application in Crops	Yield, B:C ratio	HDPE pits, vermi	-	-	30	20	0	0	0	0	30	20	50

Extension and Training Activities under FLD:

Activity	**Title of Activity**	**No.**	**Clientele**	**Duration**	**Venue On/Off**	**No. of Participants**								
						SC		**ST**		**Other**		**Total**		
						M	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**T**
Training	Application of Jeevamruth in cultivation of Kharif Rice	1	PF	1 Day	Off	2	3	10	0	12	3	24	6	30
Training	Lime application and Ghanjeevamruth on Kharif Paddy	1	PF	1 Day	OFF	3	3	9	2	12	2	24	6	30
Training	Preparation techniques of NOVCOM compost and its application	1	PF	3 Days	OFF	10	10	2	2	5	1	17	13	30
Training	Lowcost Vermicompost Preparation	5	PF	5 Days	ON/OFF	30	20	0	0	0	0	30	20	50

5. 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.)
Seedlings	HYV	Sept. 2024-January-2025	.04	Quality Veg. & Flower Seedlings	30,000 No.	20,000.00	30,000.00	10,000.00
Saplings	Improved	Do	Do	Quality saplings of different fruit plants/ Forest Plants	500	20,000.00	40,000.00	20,000.00

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	July 2024 – December 2024	02	08	TL	40	1,00,000.00	1,50,000.00	50,000.00
Ground - nut	TG -37A, TG – 51, TAG -73	Nov.-2024 - Feb. 2025	02	20	TL	40	1,20,000.00	2,00,000.00	80,000.00

6. Extension Activities

Sl. No.	Activities/ Sub-activities	No. of activities proposed	Farmers				Extension Officials			Total		
			M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	11	110	110	220	52	7	4	11	117	114	231
2.	Kisan Mela	1	250	245	495	45	25	05	30	275	250	525
3.	Kisan Ghosthi	2	21	13	34	48	3	0	3	24	13	37
4.	Exhibition											
5.	Film Show											
6.	Method Demonstrations	14	170	80	250	68	02	01	03	172	81	253
7.	Farmers Seminar											
8.	Workshop											
9.	Group meetings											
10.	Lectures delivered as resource persons	12	25	27	52	50				25	27	52
11.	Advisory Services	80	150	75	225	55				150	75	225
12.	Scientific visit to farmers field	80	200	110	310	56	05	02	07	205	112	317
13.	Farmers visit to KVK	100	324	58	382	50				324	58	382
14.	Diagnostic visits	15	65	35	100	60	01	01	02	66	36	102
15.	Exposure visits	2	52	28	80	52	02	01	03	54	29	83
16.	Ex-trainees Sammelan	1	35	25	60	50				35	25	60
17.	Soil health Camp											
18.	Animal Health Camp											
19.	Agri mobile clinic											
20.	Soil test campaigns											
21.	Farm Science Club Conveners meet											
22.	Self Help Group Conveners meetings	5		55	55	50	01	01	02	01	56	57
23.	Mahila Mandals Conveners meetings											
24.	Celebration of important days (specify)	4	45	22	67	35				45	22	67
25.	Sankalp Se Siddhi	1	55	35	90	50	01	0	01	55	36	91
26.	Swatchta Hi Sewa	10	74	36	110	52	10	02	12	84	38	122
27.	Mahila Kisan Diwas	1	0	38	38	62	01	01	02	01	39	40
28.	Any Other (Specify)											
	Total	**954**	**2286**	**835**	**58**		**76**	**1389**	**973**	**2362**	**954**	**2286**

7. Revolving Fund (in Rs.)

Opening balance of 2023-2024 (As on 01.04.2024)	Amount proposed to be invested during 2024-2025	Expected Return
Nil	Nil	Nil

8. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)	Proposed purpose of utilization (in brief)
Development of Demonstration Units	ATMA, Jhargram	2,00,000.00	Construction of Demo Units
Promotion of Groundnut cultivation	DGR TSP, Juagadh, Gujrat	2,60,000.00	Training and Demo

9. On-farm trials to be conducted*

ON FARM TESTING – 1 (Agronomy)

Season	Kharif Season
Title of OFT	Evaluation of performance of foliar application of Different Nutrients at flower initiation stage on Blackgram in *kharif* season
Thematic area	INM
Problem Diagnosed	Low productivity of local cultivars during *kharif* season under rainfed farming situation in Red & Laterite area of Jhargram district.
Important Causes	Lower yield due to improper management of nutrients.
Production System	Black gram – Oilseeds / Vegetables- Sesame
Micro farming situation	Rain fed Medium land
Technology for testing	Application of different dose of nutrients
Existing practice	Application of improper dose of nutrients
Hypotheses	Low yield of Black gram
Objectives	To increase the productivity of Black gram
Treatments	**Farmers' practice**: Farmers' cultivation practice **Technology option 1:** Farmers' practice + Foliar spray of 2 % Nano urea at flower initiation stage **Technology option 2:** Farmers' practice + Foliar spray of 2 % Nano DAP + 0.2 % Boron at flower initiation stage **For Technology option 1 and Technology option 2:** **Seed treatment**: Inoculation of seed with ***Rhizobium*** (***Rizobium*** *@ 0.75* kg / 22.5 kg of seed requiring for one hectare) **PSB** (Soil application of PSB with cow dung manure @ 1.9 *l* / ha during final land perparation)
Critical inputs	Seed, Nano Urea, Nano DAP, Boron
Unit size / Plot size	400 sq .mt / plot,
No. of Replications	10 farmers (4 plot of each farmer)
Design	RBD
Unit cost	Rs. 400/-
Total cost	Rs. 16,000/-
Monitoring indicators	Yield per ha. Net return per unit area and Benefit cost ratio
Source of technology	SAU

ON FARM TESTING – 2 (Agronomy)

Season	Kharif paddy-2024
Title of OFT	**Effect of different Weed management practices on Kharif paddy**
Thematic area	**Weed management**
Problem Diagnosed	Heavy loss in kharif paddy due to weed infestation
Important Causes	Low production due to lack of weed management
Production System	Paddy -Vegetables- Sesame
Micro farming system	Irrigated Medium land
Technology for testing	Application of different weed management practice
Existing practice	Use of hand weeding
Hypotheses	Poor yield of paddy in kharif season
Objectives	To assess the yield to use different weed management practice
Treatments	**Farmers' practice:** Hand weeding **Technology option 1:** Use of paddy weeder **Technology option 2:** Application of herbicide (Pretilachlor)
Critical inputs	Paddy weeder, Herbicide
Unit size	500 sq mt / plot
No. of Replications	10 farmers (3 plot each)
Unit cost	Rs. 1000/-/Plot
Total cost	Rs. 15,000/-
Monitoring indicators	Average yield per ha. Net return per unit area and Benefit cost ratio
Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):	**SAU**

ON FARM TESTING – 3 (Horticulture)

Sl. No.	Season: Kharif
i.	**Title of the OFT:** Assessment of varietal performance of Chrysanthemum (*Dendrathema grandiflorum*) in the red and lateritic zone of Jhargram.
ii.	**Thematic Area:** Varietal Performance
iii.	**Problem diagnosed:** Less Profit
iv.	**Important Cause:** Low yield
v.	**Production system:** Cultivation of local variety
vi.	**Micro farming system:** Irrigation
vii.	**Technology for Testing:** Varietal trial
viii.	**Existing Practice:** Cultivation of local variety
ix.	**Hypothesis:** Better yield
x.	**Objective(s):** To get more profit
xi.	**Treatments:** **Farmers Practice (FP):** Cultivation of local variety **Technology option-I:** Cultivation of the variety 'Champagne Orange' **Technology option-II:** Cultivation of the variety 'Urban' **Technology option-III:** Cultivation of the variety 'Pina Colada' **Technology option-IV:** Cultivation of the variety 'Champagne Yellow'
xii.	**Critical Inputs:** Seed
xiii.	**Unit Size:** 0.5 ha
xiv.	**No of Replications:** 10 farmers
xv.	**Unit Cost:** Rs. 3000.00/-
xvi.	**Total Cost:** Rs. 30,000/-
xvii.	**Monitoring Indicator:** Fruit yield per ha., Net return per unit area and Benefit cost ratio**.**
xviii.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Kavitha, P.S., Sudha, A., & Sriram, N. (2019). Assessment of Chrysanthemum (*Dendrathema grandiflorum*) varieties for Yield and Productivity in Salem District. J Krishi Vigyan, 8 (**1**): 8-12.

ON FARM TESTING – 4 (Horticulture)

Sl. No.	Season: Kharif
i.	**Title of the OFT:** Assessment of performance of different Tuberose (*Polianthes tuberosa* L) varieties in the red and lateritic zone of Jhargram in monsoon.
ii.	**Thematic Area:** Varietal Performance
iii.	**Problem diagnosed: Less profit**
iv.	**Important Cause:** Cultivation of conventional crops
v.	**Production system:** Cultivation of conventional crops
vi.	**Micro farming system:** Irrigation
vii.	**Technology for Testing:** Varietal trial
viii.	**Existing Practice:** Cultivation of local variety
ix.	**Hypothesis: More profit**
x.	**Objective(s):** To get more profit
xi.	**Treatments:** **Farmers Practice (FP):** Local variety. **Technology option-I:** Cultivation of the variety 'Prajwal' **Technology option-II:** Cultivation of the variety 'Bidhan Snigdha' **Technology option-III:** Cultivation of the variety 'Bidhan Ujjal'
xii.	**Critical Inputs:** Bulb
xiii.	**Unit Size:** 1080 sq .ft
xiv.	**No of Replications:** 10 farmers
xv.	**Unit Cost:** Rs. 240/-
xvi.	**Total Cost:** Rs. 2400/-
xvii.	**Monitoring Indicator:** Av. Height of stick, No of florets/stick, Av. yield per ha, Net return per unit area and Benefit cost ratio**.**
xviii.	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify):** Sivakumar V. *et al*. (2020) Assessment of Tuberose (*Polianthes tuberosa* L.) Varieties for Growth and Flower Yield, *Int.J.Curr.Microbiol.App.Sci*., **9(8)**: 1082-1086

ON FARM TESTING – 5 (Plant Protection)

Season	**Summer**
Title of OFT	**Control of White Flies in Bitter guard by using different Pesticides**
Thematic area	IPM
Problem Diagnosed	Yield loss of Bitter guard due to severe attack of White Flies
Important Causes	Attack of **White** Flies
Production System	Rice – Vegetables,
Micro farming situation	Rain fed Medium land
Technology for testing	Application of different **pesticides to control the White Flies**
Existing practice	Application of different pesticides as per directives of the local input dealers
Hypotheses	Low yield of **Bitter guard**
Objectives	To control the Pest effectively and enhance the yield of fresh **Bitter guard**
Treatments	**Farmers practice:** Application of different pesticides as per directives of the local input dealers **Technology Option-I:** Application of Imidaclorprid 17.8 % SL @ 0.4 ml. / lt. water at 10 days interval starting from initial stage of attack. **Technology Option-II:** Application of Thiamethoxam 25 % wg @ 0.4 gm / lt. water at 10 days interval starting from initial stage of attack. **Technology Option-III:** Application of Neem Oil 1000 ppm @ 1ml. / lt. water at 10 days interval starting from initial stage of attack.
Critical inputs	Pesticides
Unit size / Plot size	200 sq .mt / plot,
No. of Replications	10 farmers (4 plot of each farmer)
Design	RBD
Unit cost	Rs. 400/-
Total cost	Rs. 16,000/-
Monitoring indicators	% of pest infestation, efficacy of treatments, yield per ha. Net return per unit area and Benefit cost ratio
Source of technology	BCKV, Kalyani, Nadia

ON FARM TESTING – 6 (Plant Protection)

Season	**Rabi - Summer Season**
Title of OFT	**Control of Stem Rot of Ground-nut by using different control measures**
Thematic area	IDM
Problem Diagnosed	Yield loss in Ground-nut due to heavy infestation of Stem Rot
Important Causes	**Infestation of Stem Rot**
Production System	Rice – Oilseeds / Vegetables
Micro farming situation	Rain fed Medium land
Technology for testing	Application of different **Fungicides and Antibiotic to control the Stem Rot**
Existing practice	Application of **fungicides** as per directives of the local input dealers
Hypotheses	Low yield of **Ground-nut**
Objectives	To control the Disease effectively for save the crops and enhance the yield of **Ground-nut**
Treatments	**Farmers practice:** **Application of Fungicides as per directives of the local input dealers** **Technology Option-I:** ***seed treatment with Trichoiderma viridi 1.15 % wp @ 3 gm. + Pseudomonous fleorescens 0.5 WP @ 3gm. / kg. of seed and basal*** **Application of *Trichoiderma viridi* 1.15 % wp @ 3 gm. + *Pseudomonous fleorescens* 0.5 WP @ 1gm. / lt. water at 21 days after seed sowing.** **Technology Option-II:** ***seed treatment with Carbendazim 50% wp @ 3 gm. + Validamycin 3% L @ 3 ml / kg. of seed and basal*** **Application of *Carbendazim 50% wp @ 1.5 gm. + Validamycin 3% L @ 1.5 ml* // lt. water at 21 days after seed sowing.** **Technology Option-III:** ***seed treatment with Trichoiderma viridi 1.15 % wp @ 3 gm. + Pseudomonous fleorescens 0.5 WP @ 3gm. / kg. of seed and basal*** **Application of *Carbendazim 50% wp @ 1.5 gm. + Validamycin 3% L @ 1.5 ml* // lt. water at 21 days after seed sowing**
Critical inputs	**Fungicides and Antibiotics**
Unit size / Plot size	200 sq .mt / plot,
No. of Replications	10 farmers (4 plot of each farmer)
Design	RBD
Unit cost	Rs. 400/-
Total cost	Rs. 16,000/-
Monitoring indicators	% of disease infestation, efficacy of treatments, yield per ha. Net return per unit area and Benefit cost ratio
Source of technology	AICRP (RRS, BCKV, Jhargram)

ON FARM TESTING – 7 (Soil Science)

Season	Kharif 2024
Title of OFT	**Assessment of the performance of Organic and Inorganic fertilizers on the Yield and Quality of Groundnut**
Thematic area	Soil Fertility and Nutrient Management
Problem Diagnosed	The soil health is degraded by the over use of chemical fertilizers and subsequently low benefit cost ratio incurred by the farmer
Important Causes	High dependence on Chemical Fertilizer
Production System	Rice based cropping systems
Micro farming situation	Rain fed Medium land
Technology for testing	Natural Farming techniques
Existing practice	High use of Chemical fertilizer
Hypotheses	High use of Chemical fertilizer trends to lowering soil health and quality of food grains.
Objectives	To promote Organic farming and minimize dependency on chemical fertilizer
Treatments	**Farmers Practice (FP):** Conventional methods of fertilizers application in Groundnut **Technology option-I:** Application Vermicompost 1.2 tonnes/acre at bed preparation + Panchakavya @3% each at 45 and 60 DAS **Technology option-II:** Application of N:P:K (08:12:20) through chemical fertilizers + Application of Gypsum @80kg/acre on two split doses (30kg /acre at 30 DAS and 50kg/acre at Flowering stage)+ Application of 4kg Borax/acre **For Technology option 1 and II - Seed Treatment** with *Trichoderma viridie* @4-5 gm. /kg seed
Critical inputs	Gypsum, Fertilizers, Seeds (JL 24/ TG 51)
Unit size / Plot size	75 m^2 /Plot
No. of Replications	10 Farmers (3 plots each)
Design	Randomized Block Design
Unit cost	Rs. 2000/farmer
Total cost	Rs. 20000
Monitoring indicators	Yield/Ha, B:C Ratio and Economics.
Source of technology	TNAU, ATARI- Kolkata

ON FARM TESTING – 8 (Soil Science)

Season	Kharif
Title of OFT	Assessment of Performance of different organic and inorganic compounds on the yield of Aman Paddy
Thematic Area	INM
Problem Diagnosed	Disturb soil health and quality of paddy due to heavy use of chemical compounds.
Important Causes	High of use chemical Fertilizer forming Hard Crust on the soil, affecting Crop health
Production System	Paddy-Vegetable-Sesame
Micro Farming System	Rain fed Medium Land
Technology for testing	Application of different bio stimulants and other Natural Farming Components
Existing Practice	Very low use of bio fertilizer/ stimulants and Excessive use of Chemical Fertilizer
Hypothesis	High use of Chemical compounds bringing environmental hazards and quality of grains.
Objective	To Assess the Yield, BC ratio and Soil Health Status of the Aman Paddy
Treatments	**Farmers Practice :** Conventional application of fertilizers **Technology option – I :** Application of Ghan Jeevamrutha 2 tonnes/ha during field preparation and while sowing +20 % solution of Jeevamrutha application@ 200litre/acre at 15 to 20 DAS **Technology –II :** FYM 5 Tonnes/ha during land preparation , Vermicompost and Compost application every 20 days along with Amirtha Karaisal (25l/ ha) thrice during the growth phase and Panchagavya 3% at booting and tillering stage.
Critical Inputs	Seeds, Drum for Preparing bio stimulants
Unit Size	75 sq mt/ Plot
No. of Replication	10 Farmers (3 plot each)
Unit Cost	Rs 600/ Plot
Total Cost	Rs 18000
Monitoring Indicators	Average Yield per ha, Net return per unit area, Benefit Cost Ratio, Soil Health Status
Source of Technology	TNAU, MANAGE

ON FARM TRIAL – 09 (Soil Science)

Season	Kharif
Title of OFT	Effect of INM on the yield of Black Gram
Thematic Area	INM
Problem Diagnosed	Low yield of Black Gram due to improper nutrient management.
Important Causes	High use of chemical Fertilizer causing Hard Crust on the soil, affecting Crop physiology
Production System	Blackgram-Mustard-Sesame
Micro Farming System	Irrigated Medium Land
Technology for testing	Application of INM with addition of Organic compounds
Existing Practice	Imbalance use of chemical fertilizer and no or very low use of organic nutrients
Hypothesis	High use of Chemical fertilizer trends to lowering soil health and quality of food grains.
Objective	Enhance yield of Black Gram through INM
Treatments	**Farmers Practice :** Conventional application of fertilizers **Technology option – I :** Application of NPK @ 08:16:16 kg/acre + Application of Zn, B, Mo @0.5% solution at 21,30,42 DAS after sowing. **Technology –II :INM (75% of recommended dose + 50% of recommended dose of** Vermicompost (1tonne/acre) + Application of Zn, B, Mo @0.5% solution at 21,30,42 DAS after sowing
Critical Inputs	Seeds, Vermicompost, Fertilizers
Unit Size	75 sq mt/ Plot
No. of Replication	10 Farmers (3 plot each)
Design	RBD
Unit Cost	Rs 1000/ Plot
Total Cost	Rs. 30000
Monitoring Indicators	Average Yield per ha, Net return per unit area, Benefit Cost Ratio, Soil Health Status
Source of Technology	BCKV, TNAU

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.	ATMA, Jhargram	2,00,000.00
2.	DGR TSP, Juagadh, Gujrat	2,60,000.00

11. No. of success stories proposed to be developed with their tentative titles: 02

12. Scientific Advisory Committee

Date of SAC meeting held during 2023	Proposed date during 2024
5th February, 2023	Second week of March 2024

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	150	25	30	90	50	70	60	185	140	325	40	100
Water Samples	10	-	-	10	0	10	0	20	0	20	5	-
Other (Please specify)												
Total	160	25	30	100	0	80	60	205	140	345	45	100

14. Fund requirement and expenditure (Rs.)*

Sl. No.	Item of Expenditure	Actual Expenditure (last year) up to 31.03.2024 (Rs.)	Expected Fund Requirement from 01.04.2024 to 31.03.2025	Recommended by BE/SMD
A.	***RECURRING:***			
	Pay & Allowances	1,22,05,568.00	1,80,00,000.00	
	TA/DA	1,45,366.00	2,50,000.00	
	H.R.D.	0.00	30,000.00	
	Contingencies:			
	(a) Stationary, Telephone, Electricity, etc.	4,28,137.00	10,00,000.00	
	(b) POL, Repairing of Vehicle/Tractor, etc.		2,00,000.00	
	(c) Trg. of Farmers/Farm Women		2,00,000.00	
	(d) Trg. of Rural Youth		1,00,000.00	
	(e) Training of Extn. Functionaries		50,000.00	
	(f) Training Material		1,00,000.00	
	(g) On-farm Testing		1,20,000.00	
	(h) Front Line Demonstration		2,00,000.00	
	(i) Maintenance of Building		10,00,000.00	
	(j)SCSP	8,10,850.00	18,00,000.00	
	(k) Soil & Water Testing Lab	-	1,10,00,000.00	
	Total (A)	**1,35,89,921.00**	**3,40,50,000.00**	
B.	***NON-RECURRING*:**			
	Boundary Wall	-	1,15,00,000.00	
	Equipments/Furniture	1,45,480.00	10,00,000.00	
	Library	10,000.00	10,000.00	
	Admn. Building	1,06,75,000.00	-	
	Farmers' Hostel (Sm)	-	1,50,00,000.00	
	Staff Quarter	-	-	
	Vehicle & Implementation Shed	-	-	
	New Vehicle (Tractor 42 HP for hard soil)	-	11,00,000.00	
	Road Formation	-	-	
	Other Demonstration Units	-	20,00,000.00	
	TOTAL (B):	**1,08,30,480.00**	**3,06,10,000.00**	
	GRAND TOTAL (A+B):	**2,44,20,401.00**	**6,46,60,000.00**	

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

Sr. Scientist & Head
Jhargram KVK