ACTION PLAN 2023

1. Name of the KVK: Jhargram Krishi Vigyan Kendra

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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 2023 to December 2023)

(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/23	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Boro cultivation	1	1	Off	1st wk/Mar/23	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Sesamum cultivation	1	1	Off	1st wk/Mar/23	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Sesamum cultivation	1	1	On	1st wk/Mar/23	3	2	3	2	8	2	14	6	20
Crop Diversification	Improved production techniques of Kharif pulses cultivation	1	1	Off	1st wk/April/23	3	2	3	2	8	2	14	6	20

Crop Diversification	Improved production techniques of Kharif pulses cultivation	1	1	On	1st wk/April/23	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/23	3	2	3	2	8	2	14	6	20
Integrated Crop Management	Cultivation practices of kharif groundnut	1	1	On	4th wk/May/23	3	2	3	2	8	2	14	6	20
Integrated Crop Management	Cultivation practices of kharif rice	1	1	On	4th wk/May/23	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/23	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/23	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/23	6	4	6	4	16	4	28	12	40
Crop Diversification	Improved production techniques of mustard	1	1	On	1st wk/October/23	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/23	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
Production and Management technology (Spices)	Commercial cultivation of different spices.	1	1	Off	1st wk/Feb/2023	3	2	4	1	7	3	14	6	20
Cultivation of Fruit	Latest scientific cultivation technologies of fruit crops.	1	1	Off	2nd wk/Mar/2023	3	2	3	2	8	2	14	6	20
Production and Management technology (Spices)	Kharif onion cultivation	1	1	Off	1st wk/April/2023	2	2	4	2	8	2	14	6	20
Nursery Management	Propagation techniques of different horticultural crops	1	1	Off	3rd wk/April/2023	4	4	2	3	5	2	11	9	20
Integrated nutrient management	Organic farming of vegetable crops	1	1	Off	2nd wk/May/2023	3	2	3	2	8	2	14	6	20
Propagation techniques of Ornamental Plants	Commercial cultivation of Flowering plants.	1	1	Off	1st wk/June/2023	2	3	3	3	4	5	9	11	20
Nutritional Garden	Kitchen garden development	1	1	Off	2nd wk/Sep/2023	2	2	4	2	8	2	14	6	20
Production and management technology of Medicinal and Aromatic Crops.	Medicinal and aromatic crop cultivation	1	1	Off	1st wk/Dec/2023	2	3	3	3	4	5	9	11	20
	Total	**08**	**08**			**21**	**20**	**26**	**18**	**52**	**23**	**99**	**61**	**160**

Discipline – Agricultural Engineering

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
Drudgery reduction tools and machinery	Operation and maintenance of Groundnut Decorticator	01	1	On	3rd wk January/2023	02	00	05	00	13	0	20	00	20
Soil and water conservation practices	Land treatment practices on watershed basis	01	1	0ff	3rd wk February/2023	02	02	06	05	07	03	15	10	25
Repair and maintenance of water lifting pump	Trouble shooting and its remedial measures on centrifugal pump sets	01	1	On	4th wk February/2023	02	00	05	00	13	0	20	00	20
Conservation tillage Technology	Operation and maintenance of zero tillage machines	01	1	On	1st wk March/2023	02	00	05	00	13	0	20	00	20
Drudgery reduction tools and machinery	Gender friendly Equipment for farmwomen	01	1	On	2nd wk March/2023	00	07	00	07	00	06	00	20	20
Repair &maintenance of farm machinery and implements	Operation and maintenance of paddy production machinery and implements	01	1	On	4th wk June/2023	02	00	05	00	13	0	20	00	20
Conservation tillage Technology	Use of paddy transplanter, drum seeder and raising of mat type paddy nursery	01	1	On	4th wk July/2023	02	00	05	00	13	0	20	00	20
Use of plastic in farming production	Construction & maintenance of poly tunnel, shed nets and use of mulching	01	1	Off	4th wk September/2023	02	02	06	05	07	03	15	10	25
Installation and maintenance of micro irrigation	Operation and maintenance of drip/ sprinkler	01	1	Off	1st wk December/2023	02	02	06	05	07	03	15	10	25

system	irrigation system													
Small scale processing and value addition	Operation and maintenance of rice hauler and flour mill and power transmission system	01	1	On	4th wk December/2023	02	00	05	00	13	0	20	00	20
	Total	**10**	**10**			**18**	**13**	**48**	**22**	**99**	**15**	**165**	**50**	**215**

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 cucurbits grown in the dist.	1	1	Off	3rd Week of January 2023	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease of Major Summer Pulse and Oilseed crops grown in the district	1	1	Off	2nd Week of Feb. 2023	3	3	4	3	3	4	10	10	20
IPM & IDM	Integrated pest management of summer crops.	1	1	On	4th Week of May 2023	3	3	4	3	3	4	10	10	20
IPM & IDM	storage grain pest management and Method of seed treatment of major Kharif crops of the area.	1	1	Off	3rd Week of June 2023	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 2023	3	3	4	3	3	4	10	10	20
IPM & IDM	Management of insect pest and disease of Major oilseed & Pulse Crops.	1	1	Off	4th Week of Auj. 2023	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. 2023	3	3	4	3	3	4	10	10	20
IPM & IDM	Disease and pest management in the nursery of vegetables.	1	1	On	3rd Week of Oct. 2023	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. 2023	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. 2023	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/ January/ 2023	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/2023	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/ March/2023	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/ April/2023	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/2023	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/2023	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/ 2023	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/2023	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	2nd wk/Sep/2023	3	2	3	2	8	2	14	6	20
Feed Management	Enrichment of Poor quality dry fodder.	1	1	Off	4th wk/Mar/2023	3	2	2	3	6	4	11	9	20
Total		**02**	**02**	**-**	**-**	**6**	**4**	**5**	**5**	**14**	**6**	**25**	**15**	**40**

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/2023	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/2023	2	1	5	6	4	2	11	9	20
Production and use of Natural Farming inputs	Jeevamruth production techniques	1	1	Off	4th wk/Jan/2023	2	1	5	6	4	2	11	9	20
Soil Fertility Management	Balanced fertilizer application on vegetable field	1	1	Off	3rd wk/Feb/2023	2	1	5	6	4	2	11	9	20
Production and use of Natural Frming inputs	Process for preparation of Natural Farming Components	1	1	Off	4th wk/Feb/2023	2	1	5	6	4	2	11	9	20
Soil Fertility Management	Balanced fertilizer application on vegetable field	1	1	Off	3rd wk/Mar/2023	2	1	5	6	4	2	11	9	20
Soil Fertility Management	Balanced fertilizer application on vegetable field	1	1	Off	4th wk/Mar/2023	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/2023	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/2023	3	2	3	2	8	2	14	6	20
Soil Fertility Management	Balanced fertilizer application on vegetable field	1	1	Off	2nd wk/May/2023	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/2023	3	2	3	2	8	2	14	6	20
Natural Farming in	Natural Farming components in Rice crop.	1	1	Off	2nd wk/Jun/2023	2	1	5	6	4	2	11	9	20
Integrated Nutrient Management	Balanced fertilizer in Rice crop.	1	1	Off	3rd wk/Jun/2023	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/2023	2	1	5	6	4	2	11	9	20
Production and use of Natural Farming components	Use of jeevamruth nd beejamruth in kitchen garden and in production of planting materials	1	1	Off	2nd wk/Aug/2023	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/2023	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/2023	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/2023	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/2023	2	1	5	6	4	2	11	9	20
Total		**19**	**19**	-	-	**40**	**21**	**91**	**106**	**84**	**38**	**215**	**165**	**380**

(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/2023	2	1	2	2	6	2	10	5	15
Seed Production	Quality seed production of oilseeds Cereals.	1	7	On	2nd wk/Oct/2023	2	1	2	2	6	2	10	5	15
Seed Production	Quality seed production of pulse Cereals.	1	7	On	1st wk/Nov/2023	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/2023	3	1	2	1	4	4	9	6	15
Protective cultivation (Green Houses, Shade Net etc)	Protected cultivation of high value horticultural Crops	1	2	On	2nd wk/Sept/2023	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	1st wk/Jun/2023	2	1	3	2	4	3	9	6	15

Mushroom cultivation	Procedure of mushroom cultivation	1	05	On	2nd wk/August/2023	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	1st wk/Nov/2023	2	1	2	2	6	2	10	5	15
Soil and water testing	Methods of soil and water testing	1	5	On	3rd wk/Dec/2023	2	1	5	6	4	2	11	9	20
Total		**02**	**10**			**4**	**2**	**7**	**8**	**10**	**4**	**21**	**14**	**35**

Discipline – Agril. Engineering

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**
Repair and maintenance of farm machinery and implements	Overhauling of Diesel engine Pumpset	01	6 days	On	1st wk/May/2023	02	00	05	00	08	00	15	00	15
Enterprise development	Managing custom and hire centres for farm machinery and implements	01	4 days	On	2nd wk/June/2023	02	00	03	02	08	00	13	02	15
Repair and maintenance of farm machinery and implements	Operation and maintenance of Paddy production machines	01	6days	On	2nd wk/July/2022	02	00	05	00	08	00	15	00	15
	Total	**03**	**16**			**06**	**00**	**13**	**02**	**24**	**00**	**43**	**02**	**45**

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 2023	4	2	5	2	5	2	14	6	20
Entrepreneurial development of youths	Development of PhasalSurakshaMitra	1	7	On	2nd Week of Sept. 2023	4	2	5	2	5	2	14	6	20
Bee Keeping	Modern Technique of Bee Keeping.	1	7	On	2nd Week of Octo. 2023	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/2023	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/2023	3	2	3	2	8	2	14	6	20
Total		**02**	**2**	**-**	**-**	**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 technology and value addition	Post harvest management and different processing techniques of some horticultural crops	1	2	On	3rd wk/Dec/2023	3	2	2	2	4	2	9	6	15
	Total	**1**	**2**	**-**	**-**	**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/2023	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/2023	3	2	3	2	8	2	14	6	20
Total		**2**	**2**	**-**	**-**	**5**	**3**	**11**	**4**	**17**	**5**	**33**	**12**	**45**

Discipline – Agril. Engineering

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
Care and maintenance of farm machinery and implements	Improved Agril implement for rice based production system and its management	01	1	On	3rd wk/June/2023	02	00	05	02	06	00	13	02	15
Water Management	Operation and maintenance of micro irrigation system and use of plastic	01	1	On	2nd wk/Nov/2023	02	00	05	02	06	00	13	02	15
	Total	**02**	**2**	**-**	**-**	**4**	**0**	**10**	**4**	**12**	**0**	**26**	**4**	**30**

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. 2023	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	1	2	2	4	4	2	6	8	2	10	14	6	20
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													
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**	**7**	**6**	**13**	**11**	**6**	**17**	**24**	**6**	**30**	**42**	**18**	**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	1	4	4	8	2	3	5	5	2	7	11	9	20
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	**2**	**7**	**6**	**13**	**5**	**5**	**10**	**13**	**4**	**17**	**25**	**15**	**40**
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	7	16	9	25	31	34	65	36	14	50	83	57	140
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	4	8	4	12	20	24	44	16	8	24	44	36	80
TOTAL	**19**	**40**	**21**	**61**	**91**	**106**	**197**	**84**	**38**	**122**	**215**	**165**	**380**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													

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 Management													
Rabbit Management													
Disease Management	1	3	2	5	3	2	5	8	2	10	14	6	20
Feed management	1	3	2	5	2	3	5	6	4	10	11	9	20
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL	**2**	**6**	**4**	**10**	**5**	**5**	**10**	**14**	**6**	**20**	**25**	**15**	**40**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
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													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems	1	2	2	4	6	5	11	7	3	10	15	10	25
Use of Plastics in farming practices	1	2	2	4	6	5	11	7	3	10	15	10	25
Conservation tillage Technology	2	4	0	4	10	0	10	26	0	26	40	0	40
Repair and maintenance of farm machinery and implements	2	4	0	4	10	0	10	26	0	26	40	0	40
Small scale processing and value addition	1	2	0	2	5	0	5	13	0	13	20	0	20
Drudgery Reduction Farm Machinery	2	2	7	9	5	7	12	13	6	19	20	20	40
Soil and water conservation practices	1	2	2	4	6	5	11	7	3	10	15	10	25
TOTAL	**10**	**18**	**13**	**31**	**48**	**22**	**70**	**99**	**15**	**114**	**165**	**50**	**215**
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

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
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
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													

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
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	**72**	**184**	**134**	**318**	**279**	**227**	**506**	**463**	**168**	**631**	**926**	**529**	**1455**

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													
Planting material production													
Vermi-culture	1	2	1	3	2	2	4	6	2	8	10	5	15
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	2	4	0	4	10	0	10	16	0	16	30	0	30
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													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													

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
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	2	6	2	8	8	4	12	13	2	15	27	8	35
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	**15**	**37**	**15**	**52**	**51**	**28**	**79**	**85**	**29**	**114**	**173**	**72**	**245**

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	1	2	1	3	8	2	10	9	3	12	19	6	25
Protected cultivation technology	1	3	2	5	2	2	4	4	2	6	9	6	15
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	1	2	0	2	5	2	7	6	0	6	13	2	15
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	1	2	0	2	5	2	7	6	0	6	13	2	15
TOTAL	**8**	**22**	**11**	**33**	**34**	**16**	**50**	**54**	**13**	**67**	**110**	**40**	**150**

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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	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: Bitter gourd, Cabbage, Cauliflower, Gladiolus, Marigold, Dragon Fruit
Thrust Area: Poor yield
Thematic Area: Nutrient Management, Organic cultivation, Flower cultivation
Season: Kharif
Farming Situation: 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								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Bitter gourd	0.5	Application of PGRs in bitter gourd	Yield, B:C ratio	Seeds and PGRs	142500.00	131250.00	2	3	10	0	12	3	24	6	30
2	Cabbage, Cauliflower	0.5	Organic vegetable cultivation	Yield, B:C ratio	Seedling	93750.00	82500.00	3	2	6	4	8	7	17	13	30
3	Gladiolus	0.25	Gladiolus cultivation	Yield	Corm	195800.00	170580.00	3	2	5	10	6	4	14	16	30
4	Marigold (Local Variety)	0.5	Marigold cultivation	Yield	Cuttings	157500.00	145500.00	2	3	10	0	12	3	24	6	30
5	Dragon fruit	0.20	Dragon Fruit Cultivation	Yield	Cuttings	159600.00	-	3	2	5	10	6	4	14	16	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	Application of PGRs in bitter gourd	1	PF	1 Day	Off	2	3	10	0	12	3	24	6	30
Training	Organic vegetable cultivation	1	PF	1 Day	Off	3	2	6	4	8	7	17	13	30
Training	Gladiolus cultivation	1	PF	1 Day	Off	3	2	5	10	6	4	14	16	30
Training	Marigold cultivation	1	PF	1 Day	Off	2	3	10	0	12	3	24	6	30
Training	Dragon Fruit cultivation	1	PF	1 Day	Off	3	2	5	10	6	4	14	16	30

Discipline – Plant protection

Crop: Paddy, Bottle guard, Potato
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	Paddy, MTU 7029	02 ha./ 07 Units	Control of Blast disease of Paddy	% of disease infestation, Efficacy of pesticides, yield	Fungicide	35000 /ha.	32000/ha.	1	1	2	2	2	2	5	5	10
2	Brinjal, High yielding	02 ha./ 07 Units	Control of Brinjal Fruit and shoot Borer	% of Pest infestation, Efficacy of pesticides, yield	Insecticides	120000 /ha.	110000/ha.	1	1	2	2	2	2	5	5	10
3	Mustard, Kesari Gold	02 ha./ 07 Units	Control of aphid in Mustard	% of Pest infestation, Efficacy of pesticides, yield	Insecticides	70000 /ha.	60000/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 Blast disease of Paddy.	01	Practicing Farmers	01 day	On	01	01	02	02	02	02	05	05	10
Field Days	Effect of technology for controlling Blast of Paddy.	02	Do	02 days	Off	04	08	04	10	08	16	16	34	50
Training	Control of Brinjal Fruit and shoot Borer	01	Do	01 day	On	01	01	02	02	02	02	05	05	10
Field Days	Effect of technology for controlling Brinjal Fruit and shoot Borer,	02	Do	02 days	Off	04	08	04	10	08	16	16	34	50
Training	Control of aphid in Mustard.	01	Do	01 day	On	01	01	01	01	03	03	05	05	10
Field Days	Effect of technology for controlling aphid in Mustard.	02	Do	02 days	Off	04	08	04	10	08	16	16	34	50

Discipline – Agricultural Engineering

Crop: Paddy, Vegetables, Cereals, Groundnut
Thrust Area: Small Farm mechanization
Thematic Area: Care and maintenance of Crop Production Machinery and Implements
Season:Kharif/Rabi/Summer
Farming Situation: Medium and low land of Jhargram district

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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1.	Paddy,	1.0	Conoweeder, Naveen Sickles	Field capacity Labour reduction Cost reduction	FIM as on CHC basis	24360	31610	02	00	05	01	07	00	14	01	15
2.	Vegetables & other Cereals	1.0	Hand operated Wheel Hoe, Ridger & Seed drill	Field capacity Labour reduction Cost reduction	FIM as on CHC basis	27935	31610	01	00	05	00	08	00	14	00	14
3.	Groundnut	1.0	Groundnut Srtipper cum Decorticator	Field capacity Labour reduction Cost reduction	FIM as CHC basis	42875	31610	01	00	05	00	08	00	14	00	14
4.	Sprayer	2.0	Battery operated Sprayer	Field capacity Labour reduction Cost reduction	FIM as CHC basis	24350	31610	03	01	05	00	00	00	08	01	09
	Total	**5.0**						**07**	**01**	**20**	**01**	**23**	**00**	**50**	**02**	**52**

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	Use and maintenance of Paddy production machinery	01	PF/PFW/RY	02	On	05	02	07	03	05	00	17	05	22
Training	Operation And Maintenance of improved farm implements and machinery	04	PF/PFW/RY	02	Off	04	02	09	05	10	03	23	10	33
Training	Operation And Maintenance of improved farm implements and machinery	02	PF/PFW/RY	02	0n	05	02	07	03	05	00	17	05	22
Field Days	Hand operated Wheel Hoe, Ridger & Seed drill	04	PF/PFW/EF	06	Off	07	03	12	10	10	05	29	18	47

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								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								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 after Paddy cultivation	Yield, B:C ratio	Lime	28000	25000	3	2	6	4	8	7	17	13	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	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 after Paddy cultivation	1	PF	1 Day	OFF	3	3	9	2	12	2	24	6	30

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	June 2023-January-2024	.04	Quality Veg. & Flower Seedlings	50,000 No.	25,000.00	40,000.00	15,000.00
Saplings	Improved	Do	Do	Quality saplings of different fruit plants	1,500	30,000.00	45,000.00	15,000.00

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	July2023-Decembar2024	02	10	TL	40	1,00,000.00	1,50,000.00	50,000.00
Ground - nut	TAG-24 & TAG-51	Nov2023-Feb2024	02	30	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	13	130	132	262	51	13	02	15	143	134	277
2.	KisanMela	1	250	245	495	45	25	05	30	275	250	525
3.	KisanGhosthi	3	31	23	54	48	3	0	3	34	23	57
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	15	25	27	52	50				25	27	52
11.	Advisory Services	100	112	55	167	55				112	55	167
12.	Scientific visit to farmers field	54	125	75	200	56	05	01	06	130	76	206
13.	Farmers visit to KVK	155	250	210	460	50				250	210	460
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.	MahilaMandals 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	**394**	**1419**	**1121**	**2540**		**64**	**15**	**79**	**1482**	**1137**	**2619**

7. Revolving Fund (in Rs.)

Opening balance of 2021-2022 (As on 01.04.2022)	Amount proposed to be invested during 2022-2023	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)
CFLD on Pulse	NFSM, ICAR-ATARI	90,000.00	Demonstration
Kisan Bhagidari Campaign	ICAR-ATARI	95,900.00	Awareness Campaign
Garib Kalyan Sammelan	ICAR-ATARI	85,890.00	
NABARD IFS	ICAR-ATARI	12,000.00	Data Collection
Swachhta Action Plan	ICAR-ATARI	17,250.00	Awareness Campaign
Natural Farming	ICAR-ATARI	10,69,058.00	

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 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-2023
Title of OFT	**Weed management of kharif paddy**
Thematic area	**Weed management**
Problem Diagnosed	Heavy loss in kharif paddy due to weed
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 Water melon (*Citrullus lanatus*) 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 'Arka Muthu' **Technology option-II:** Cultivation of the variety 'Arka Manik' **Technology option-III:** Cultivation of the variety 'Arka Akash'
xii.	**Critical Inputs:** Seed
xiii.	**Unit Size:** 0.5 ha
xiv.	**No of Replications:** 10 farmers
xv.	**Unit Cost:** Rs. 700.00/-
xvi.	**Total Cost:** Rs. 7,000/-
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):** Pitchaimuthu, M., Swamy, K.R.M.,Rao, S., & Hebbar, S. (2018). Arka Muthu: new dwarf watermelon variety. *Indian Horticulture*, 63(**1**).

ON FARM TESTING – 4 (Horticulture)

Sl. No.	Season: Kharif
i.	**Title of the OFT: Introduction and** Assessment of yield performance of different Tuberose (*Polianthes tuberosa* L) varieties in the red and lateritic zone of Jhargram.
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):** Cultivation of 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 Fruit Flies in Ridge Guard by using different Pesticides**
Thematic area	IPM
Problem Diagnosed	Damage of Ridge Guard due to severe attack of Fruit Flies
Important Causes	Attack of Fruit Flies
Production System	Rice – Vegetables,
Micro farming situation	Rain fed Medium land
Technology for testing	Application of different **pesticides to control the Fruit Flies**
Existing practice	Application of different pesticides as per directives of the local input dealers
Hypotheses	Low yield of fresh ridge guard
Objectives	To control the Pest effectively and enhance the yield of fresh ridge guard
Treatments	**Farmers practice:** Application of different pesticides as per directives of the local input dealers **Technology Option-I:** Application of Spinosad 45 SC @ 0.25 ml. / lt. water at 10 days interval during fruiting season. **Technology Option-II:** Application of Emamectin benzoate 5 SG @ 1 gm / lt. water at 10 days interval during fruiting season. **Technology Option-III:** Application of Deltamethrin 2.8 EC @ 1.25 ml. / lt. water at 10 days interval during fruiting season.
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	International Journal of Chemical Studies 2018; 6(5): 2428-2432

ON FARM TESTING – 6 (Plant Protection)

Season	**Rabi Season**
Title of OFT	**Control of Leaf Minor in Ground-nut by using different insecticides**
Thematic area	IPM
Problem Diagnosed	Yield loss in Ground-nut due to severe attack of Leaf Minor
Important Causes	Attack of **Leaf Minor**
Production System	Rice – Oilseeds / Vegetables
Micro farming situation	Rain fed Medium land
Technology for testing	Application of different **insecticides to control the Leaf Minor**
Existing practice	Application of pesticides as per directives of the local input dealers
Hypotheses	Low yield of **Ground-nut**
Objectives	To control the Pest effectively for save the crops and enhance the yield of **Ground-nut**
Treatments	**Farmers practice:** Application of pesticides as per directives of the local input dealers **Technology Option-I:** Application of Acephate 50% + Imidacloprid 1.8% SP @ 1 gm. / lt. water at 12 days interval starting from initial stage of attack. **Technology Option-II:** Application of Ethiprole 40% + Imidacloprid 40% WP @ 1 gm. /3 lt. water at 12 days interval starting from initial stage of attack. **Technology Option-III:** Alternate Application of Acetamiprid 20 % SP @ 1 gm. / 5 lt. water & Thiamethoxam 25 % WG @ 1 gm. / 3 lt. water at 12 days interval starting from initial stage of attack.
Critical inputs	Seed and insecticides
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	AICRP (RRS, BCKV, Jhargram)

ON FARM TESTING – 7 (Agricultural Engineering)

Season	*Rabi- summer* -2023
Title of OFT	Effect of Mechanical Transplanting on Growth and Yield of Paddy Cultivation in Medium Low Land of Jhargram, district
Thematic area	Conservation Tillage Technology
Problem Diagnosed	Loss of natural resources, higher input cost of cultivation
Important Causes	Transplanting practices is laborious, time consuming and capital-intensive process
Production System	Rain fed rice based small production System
Micro farming situation	Medium land
Technology for testing	Self Propelled 4 Row Rice Transplanter
Existing practice	Transplanting on puddle soil, weeding by manual
Hypotheses	Transplanting by self-propelled paddy transplanters will reduce the cost of cultivation and protect soil profile for following crops
Objectives	To protect the natural resource and to provide economic leverage
Treatments	**Farmers Practice (FP):** Conventional- tillage puddling and manual transplanting and weeding **Technology option-I (TO-I):** Puddling by conventional tillage and transplanting by paddy transplanter and weeding chemical or mechanical **Technology option-II (TO-II):** Wet land transplanting weeding by chemical or mechanical
Critical inputs	Paddy Transplanters, mat type nursery raising, conoweeder, weedicides, seeds
Unit size / Plot size	200m./Plot
No. of Replications	10
Design	
Unit cost	Rs.2000/ Farmer
Total cost	Rs.20000/-
Monitoring indicators	Fuel consumption/ha, labour requirement man hour/ha on land preparation, transplanting and weeding, cost of land preparation, transplanting weeding, yield and yield attributes, economic productivity B:C Ratio
Source of technology	Prabhat Kumar Guru et-all. Oryza Vol.55 No.1,2018(100-106)

ON FARM TESTING – 8 (Agricultural Engineering)

Season	Rabi 2023
Title of OFT	Assessment of Performance of Zero Tillage Machines in Medium Land of Red and Lateritic Soil of Jhargram district
Thematic area	Conservation tillage technology
Problem Diagnosed	Medium land remains fallow after kharif paddy cultivation
Important Causes	Lack of availability of conservation tillage technology, lack of judicious use of residual moisture, high input cost
Production System	Rice based Production System.
Micro farming situation	Medium land
Technology for testing	Zero tillage machines.
Existing practice	Fallow land.
Hypotheses	By using zero tillage medium land be brought under doubled cropping area
Objectives	To ensure double cropping of medium land and provide economic leverage
Treatments	**Farmers Practice (FP):** Fallow or mustard crop by conventional tillage and broad casting **Technology option-I (TO-I):** crop cultivation through zero tillage machines **Technology option-II (TO-II):** crop cultivation by direct conventional tillage behind sowing
Critical inputs	Zero tillage machine trailed by 35 bhp tractor, seeds
Unit size / Plot size	$100m^2$ /Plot
No. of Replications	10
Design	
Unit cost	Rs.2000/farmer
Total cost	Rs. 20000/
Monitoring indicators	Efficiency, labour saving yield attributes, Yield in qt. B.C ratio
Source of technology	Performance of zero tillage ferti seed drill in comparison to conventional and reduced tillage Dr. Pappu Singh et-all, International Journal of Scientific and Research Publication, volume4, issue 8, june2014

ON FARM TESTING – 9 (Soil Science)

Season	Kharif 2023
Title of OFT	**Assessing the effect of Organic and Inorganic fertilization on 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 input of Chemical fertilizer and reducing yield
Hypotheses	By using Organic farming techniques a huge amount of cost of production can be brought down along with conserving and increasing the quality of soil
Objectives	To implement Organic farming techniques and reducing the dependence on chemical fertilizer
Treatments	**Farmers Practice (FP):** Conventional methods of fertilizers application in Groundnut **Technology option-I:** Application of Cow urine@10% and Panchakavya @3% each at 45 and 60 DAS **Technology option-II:** Application of N:P:K (20:60:40) + 25kg/ha Sulphur at Pegging stage + Application of Gypsum @400kg/ha on two split doses (200kg/ha at 30 DAS and 200kg/ha at Flowering stage) **For Technology option 1 and Technology Option 2** **Seed Treatment :** Inoculation of seed with *Trichoderma* (*Trichoderma* @4-5/kg)
Critical inputs	Gypsum, Sulphur. Seeds (JL 24/ TG 51)
Unit size / Plot size	$100m^2$ /Plot
No. of Replications	10
Design	
Unit cost	4000/farmer
Total cost	40000
Monitoring indicators	Yield/Ha, B:C Ratio and Economics.
Source of technology	TNAU, ATARI- Kolkata

ON FARM TESTING – 10 (Plant Protection)

Season	**Rabi 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 severe attack of Stem Rot
Important Causes	Attack of **Stem Rot**
Production System	Rice – Oilseeds / Vegetables
Micro farming situation	Rain fed Medium land
Technology for testing	Application of different **control measures 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	Seed and 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 disease infestation, efficacy of treatments, yield per ha. Net return per unit area and Benefit cost ratio
Source of technology	AICRP (RRS, BCKV, Jhargram)

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	5,00,000.00

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

12. Scientific Advisory Committee

Date of SAC meeting held during 2021	Proposed date during 2022
Nil	Second week of March 2023

13. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	200	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	210	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 31.03.2023 (Rs.)	Expected Fund Requirement from 01.04.2023 to 31.03.2024	Recommended by BE/SMD
A.	***RECURRING:***			
	Pay & Allowances	**1,52,68,045.00**	1,90,00,000.00	
	TA/DA	**2,18,503.00**	2,50,000.00	
	H.R.D.	**4749.00**	30,000.00	
	Contingencies:			
	(a) Stationary, Telephone, Electricity, etc.	3,18,234.00	4,00,000.00	
	(b) POL, Repairing of Vehicle/Tractor, etc.		2,00,000.00	
	(c) Trg. of Farmers/Farm Women		1,00,000.00	
	(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	3,39,705.00	18,00,000.00	
	(k) Soil & Water Testing Lab	-	80,00,000.00	
	Total (A)	**1,61,49,236.00**	**3,13,50,000.00**	

B.	***NON-RECURRING*:**			
	Boundary Wall	-	1,00,00,000.00	
	Equipments/Furniture	-	4,00,000.00	
	Library	-	10,000.00	
	Admn. Building	50,00,000.00	94,00,000.00	
	Farmers' Hostel (Sm)	-	1,50,00,000.00	
	Staff Quarter	-	-	
	Vehicle & Implementation Shed	-	15,00,000.00	
	New Vehicle (Tractor 42 HP for hard soil)	-	11,00,000.00	
	Road Formation	-	-	
	Implement Shed+ Farm Pond+ Land Levelling	7,00,000.00	-	
	TOTAL (B):	**57,00,000.00**	**3,74,10,000.00**	
	GRAND TOTAL (A+B):	**2,18,49,236.00**	**6,87,60,000.00**	

* Any additional requirement may be suitably justified.

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