Action Plan
2021

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PROFORMA FOR ACTION PLAN 2021

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3.Training programme to be organized (December 2021)

(a) Farmers and farmwomen

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
I Crop Production														
Production technology	Improved production technology of jute in jute based cropping system	2	1	Off	Mar, 2021	12	0	0	0	38	20	50	20	70
Post-harvest management	Improved retting methodology of jute	2	1	Off	August, 2021	12	0	0	0	38	20	50	20	70
Resource Conservation Technologies	Rice cultivation through SRI in jute-rice cropping system	2	1	Off	June., 2021	10	0	0	0	60	10	70	10	80
Conservation agriculture	Sustainable crop production	1	1	Off	September, 2021	0	0	0	0	20	10	20	10	30

	through conservation agriculture in jute based cropping system													
Production technology	Improved production technology of mustard (FLD training) in jute based cropping system	2	1	Off	September, 2021	20	10	0	0	50	10	70	20	90
Production technology	Improved production technology of pulses (FLD training) in jute based cropping system	2	1	Off	Oct., 2021	12	12	0	0	56	0	68	12	80
Production technology	Improved production technology of rabi groundnut (FLD training) in jute based cropping system	2	1	Off	June., 2021	15	0	0	0	60	05	75	5	80
Production technology	Oilseed and pulse cultivation in jute-rice-oilseed/pulse system using residual moisture	1	1	Off	June., 2021	15	0	0	0	15	0	30	0	30
II. Soil Health and Fertility Management														
Soil fertility management	Role of nutrient vis-à-vis crop production in jute-rice-mustard cropping system	2	1	Off and On	July, 2021	20	0	0	0	40	0	60	0	60
Integrated Nutrient Management	Benefits of INM in field crops in jute-rice-pulses	1	1	Off	July, 2021	10	0	0	0	20	0	30	0	30

	cropping system													
Production and use of organic inputs	Need for composting and different types of compost preparation for enriching soil health in jute based cropping system	2	1	Off and On	August, 2021	20	0	0	0	40	0	60	0	60
Micro nutrient deficiency in crops	Role of micronutrient in soil and crop health in jute based cropping system	2	1	On	December, 2021	20	0	0	0	40	0	60	0	60
III. Horticulture														
Vegetable cultivation	Cultivation techniques of solanaceous vegetable in jute based cropping system	3	1	On	17.09.21, 20.09.21, 25.09.21	40	50	0	0	0	0	40	50	90
Orchards development	Layout and Management of Orchards	1	1	Off	11.06.21	15	15	0	0	0	0	15	15	30
Water management	Micro irrigation systems in jute based cropping system	1	1	On	16.06.21	15	15	0	0	0	0	15	15	30
Cultivation of Fruit	Improved cultivation of tissue culture banana	1	1	Off	18.07.21	15	15	0	0	0	0	15	15	30
Plant propagation techniques	Plant propagation techniques of sub-tropical fruit crops	1	1	On	06.08.21	15	15	0	0	0	0	15	15	30
Production and	Improved	1	1	Off	10.09.21	15	15	0	0	0	0	15	15	30

Management technology	production technology of potato in jute based cropping system													
Production and Management technology	Improved production technology of kharif onion in jute based cropping system	1	1	Off	19.07.21	15	15	0	0	0	0	15	15	30
IV. Crop Protection														
Crop protection	Disease management in Mustard	1	1	Off	28.01.2021	5	5					5	5	10
Crop protection	Disease management in Cole crops	1	1	Off	29.01.2021	5	5					5	5	10
Crop protection	Disease management in Tomato	1	1	Off	29.01.2021 (A/N)	2	8					2	8	10
Crop protection	Disease Management in Cucurbits in Integrated Farming System	1	1	Off	09.03.2021	6	4					6	4	10
Crop protection	Integrated Pest Management in Boro paddy in Integrated Farming System	1	1	On	10.03.2021	7	3					7	3	10
Crop protection	Integrated Pest Management in	1	1	On	23.06.2021	6	2	0	0	12	10	18	12	30

	Integrated Farming System													
Crop protection	Disease Management in Rice in Jute Based Farming System	1	1	Off	27.07.2021	6	2	0	0	14	8	20	10	30
Crop protection	Disease management in Brinjal in Integrated Farming System	1	1	Off	10.08.2021	6	2	4	4	10	4	20	10	30
Crop protection	Disease management in Mustard in Integrated Farming System	1	1	Off	05.11.2021	4	2	2	2	12	8	18	12	30
Crop protection	Disease management in Cole crops in Integrated Farming System	1	1	Off	08.12.2021	10	0	0	0	20	0	30	0	30
Integrated pest management	Integrated pest management in aman paddy	1	1	on	16.07.2021	15	15					15	15	30
Integrated pest management	Integrated pest management in aman paddy	1	1	off	21.07.2021	15	15					15	15	30
Integrated pest management	Integrated pest management in boro paddy	1	1	on	25.04.2021	15	15					15	15	30

Integrated pest management	Integrated pest management in jute crop	1	1	off	15.04.2021	15	15					15	15	30
Pest management in crops	Insect pest management in jute crop	1	1	Off	09.06.2021	15	15					15	15	30
Pest management in crops	Insect pest management in brinjal	1	1	On	14.10.2021	15	15					15	15	30
Pest management in crops	Insect pest management in tomato	1	1	Off	20.10.2021	15	15					15	15	30
Pest management in crops	Insect pest management in cucurbits	1	1	On	14.09.2021	15	15					15	15	30
Pest management in crops	Insect pest management in mustard	1	1	off	31.01.2021	5	5					5	5	10
TOTAL		**49**	**38**			**478**	**320**	**6**	**6**	**545**	**105**	**1029**	**431**	**1460**

(b) Rural youths

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**
Production and use of organic inputs	Vermicompost production at farmers level	2	1	On	August, 2021	20	0	0	0	40	0	60	0	60
Seed production	Seed production of different field crops	2	1	Off	July, 2021	20	0	0	0	40	0	60	0	60

Production of bio control agents and bio pesticides	Preparation of organic pesticides and its application in jute based cropping system	1	1	Off	01.11. 21	15	15	0	0	0	0	15	15	30
Post harvest technology	Post harvest technology of horticultural crops	1	1	Off	04.03.21	0	30	0	0	0	0	0	30	30
Mushroom Production	Improved Production Technology of Oyster mushroom	1	(2courses each of 2 days duration) *Same participants for both days	On	(21.012021 – 22.01.2021)	4	6					4	6	10
Mushroom Production	Improved Production Technology of Oyster mushroom	1	(2courses each of 2 days duration) *Same participants for both days	On	(30.012021 – 31.01.2021)	0	10					0	10	10
Mushroom Production	Improved Production Technology of Oyster mushroom in Jute Based Farming System	1	(2courses each of 2 days duration) *Same participants for both	On	(15.12.2021 – 16.12.2021)	4	4	2	0	12	8	18	12	30

			days											
Bee-keeping	Bee-keeping for better pollination and alternative livelihood	1	1	On	23.01.2021	7	3					7	3	10
Bee-keeping	Bee-keeping for better pollination and alternative livelihood	1	1	On	30.01.2021	2	8					2	8	10
Bee-keeping	Bee-keeping for better pollination and alternative livelihood in Integrated Farming System	1	1	On	28.09.2021	4	4	2	2	12	6	18	12	30
Bee-keeping	Bee-keeping for better pollination and alternative livelihood in Integrated Farming System	1	1	On	17.11.2021	8	8	2	2	5	5	15	15	30
TOTAL		**13**	**14**			**84**	**88**	**6**	**4**	**109**	**19**	**219**	**91**	**310**

(c) Extension functionaries

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**
Others	Climate change and effect on agriculture vis-à-vis role of jute	2	1	On	December, 2021 August, 2021	10	10	0	0	40	0	50	10	60

Seed production	Seed production of Vegetable crops in jute based cropping system	2	1	On	29.01.21, 05.03.21	39	21	0	0	0	0	39	21	60
TOTAL		**4**	**2**			**49**	**31**	**0**	**0**	**40**	**0**	**89**	**31**	**120**

(d) Vocational training

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**
Rural Crafts	Kantha Stitch preparation & Jute Handicrafts	1	7	On	19.01.21	0	20	0	0	0	0	0	20	20
Value addition	Making of jute handicrafts	1	7	On	Dec., 2021	0	10	0	0	0	10	0	20	20

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

Farmers and Farm women

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
I. Crop Production													
Weed Management													
Resource Conservation Technologies	3	80	20	100	10	0	10	0	0	0	90	20	110
Cropping Systems	7	141	50	191	59	10	69	0	0	0	200	60	260
Crop Diversification	2	56	0	56	12	12	24	0	0	0	68	12	80
Integrated Farming	2	60	5	65	15	0	15	0	0	0	75	5	80
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)													
TOTAL	**13**	**322**	**75**	**397**	**81**	**22**	**103**	**0**	**0**	**0**	**403**	**97**	**500**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	0	0	0	15	15	30	0	0	0	15	15	30
Others, if any (Cultivation of Vegetable)	5	0	0	0	70	80	150	0	0	0	70	80	150
TOTAL	**6**	**0**	**0**	**0**	**85**	**95**	**180**	**0**	**0**	**0**	**85**	**95**	**180**
b) Fruits													
Training and Pruning													
Layout and Management of Orchards	1	0	0	0	15	15	30	0	0	0	15	15	30
Cultivation of Fruit	1	0	0	0	15	15	30	0	0	0	15	15	30
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques	1	0	0	0	15	15	30	0	0	0	15	15	30
Others, if any(INM)													
TOTAL	**3**	**0**	**0**	**0**	**45**	**45**	**90**	**0**	**0**	**0**	**45**	**45**	**90**
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management	2	40	0	40	20	0	20	0	0	0	60	0	60
Soil and Water Conservation													
Integrated Nutrient Management	1	20	0	20	10	0	10	0	0	0	30	0	30
Production and use of organic inputs	2	40	0	40	20	0	20	0	0	0	60	0	60
Management of Problematic soils													
Micro nutrient deficiency in crops	2	40	0	40	20	0	20	0	0	0	60	0	60
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any													
TOTAL	**7**	**140**	**0**	**140**	**70**	**0**	**70**	**0**	**0**	**0**	**210**	**0**	**210**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	6	12	10	22	73	65	138	0	0	0	85	75	160
Integrated Disease Management	8	56	20	76	44	28	72	6	6	12	106	54	160
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any	5	0	0	0	65	65	130	0	0	0	65	65	130
TOTAL	**19**	**68**	**30**	**98**	**182**	**158**	**340**	**6**	**6**	**12**	**256**	**194**	**450**
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
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													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. Specify)													
TOTAL	**49**	**545**	**105**	**650**	**478**	**320**	**798**	**6**	**6**	**12**	**1029**	**431**	**1460**

Rural youth

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	3	12	8	20	8	20	28	2	0	2	22	28	50
Bee-keeping	4	17	11	28	21	23	44	4	4	8	42	38	80
Integrated farming													
Seed production	2	40	0	40	20	0	20	0	0	0	60	0	60
Production of organic inputs	1	0	0	0	15	15	30	0	0	0	15	15	30
Planting material production													
Vermi-culture	2	40	0	40	20	0	20	0	0	0	60	0	60
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
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													
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													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Post Harvest Technology	1	0	0	0	0	30	30	0	0	0	0	30	30
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	**13**	**109**	**19**	**128**	**84**	**88**	**172**	**6**	**4**	**10**	**199**	**111**	**310**

Extension functionaries

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2	0	0	0	39	21	60	0	0	0	39	21	60
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													

Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any	2	40	0	40	10	10	20	0	0	0	50	10	60
TOTAL	**4**	**40**	**0**	**40**	**49**	**31**	**80**	**0**	**0**	**0**	**89**	**31**	**120**

4. Frontline demonstration to be conducted*

FLD 1:

- **Crop**: Jute
- **Thrust Area**: Augmentation of productivity of field crops
- **Thematic Area**: Improved production technology
- **Season**: Pre Kharif 2021
- **Farming Situation**: Irrigated medium upland

FLD 2:

- **Crop**: Rice
- **Thrust Area**: Augmentation of productivity of field crops
- **Thematic Area**: Integrated crop management
- **Season**: Kharif 2021
- **Farming Situation**: Irrigated medium upland

FLD 3 (CFLD):

- **Crop**: Mustard
- **Thrust Area**: Augmentation of productivity of field crops
- **Thematic Area**: Nutrient management
- **Season**: Rabi 2021
- **Farming Situation**: Irrigated medium upland

FLD 4 (CFLD):

- **Crop**: Groundnut
- **Thrust Area**: Augmentation of productivity of field crops
- **Thematic Area**: Secondary and micronutrient management

- **Season**: Kharif 2021
- **Farming Situation**: Irrigated medium upland

FLD 5 (CFLD):

- **Crop**: Lentil
- **Thrust Area**: Augmentation of productivity of field crops
- **Thematic Area**: Integrated nutrient management
- **Season**: Rabi 2021
  Farming Situation: Irrigated medium upland

FLD 6

- **Crop**: Tissue cultured Banana
- **Thrust Area**: Production Technology
- **Thematic Area**: Cultivation of Fruit
- **Season**: Kharif, 2021
- **Farming Situation**: Irrigated Medium/ upland

FLD 7

- **Crop**: Onion
- **Thrust Area**: Yield increment
- **Thematic Area**: Cultivation of Vegetable
- **Season**: Kharif, 2021
- **Farming Situation**: Irrigated Medium/ upland

FLD 8

- **Crop / Enterprise:** Vegetable seedlings transplanter and pluck tray/potray
- **Thrust Area**: Use of Plastics in farming practices along with efficient labour management
- **Thematic Area**: Nursery management of vegetables (cauliflower)
- **Season**: Rabi, 2022
  Farming Situation: Irrigated Medium/ upland

FLD 9

- **Crop**: Oyster Mushroom (in Integrated Farming System)
- **Thrust Area**: Augmentation of productivity
- **Thematic Area**: Improved production technology
- **Season**: Rabi, 2021-2022
- **Month**: Dec, 2021

- **Farming Situation**: Conventional method

FLD 10

- **Crop**: Brinjal
- **Thrust Area**: Augmentation of productivity
- **Thematic Area**: Integrated Pest management
- **Season**: Rabi, 2022 (November 2021)
- **Farming Situation**: Irrigated medium/ upland

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	Jute; JRO 204	10	Seed treatment+ Use of seed drill/cycle weeder+ 60:30:30 NPK+retting with CRIJAF SONA	Plant height, base diameter, yield	Seed	63000	66000	10	0	0	0	15	0	25	0	25
2	Rice; MTU 7029	10	16-18 day old seedling + 10'x10' spacing + chemical weeding + 80:40:40:20 NPKS	No. of tiller/hil, test weight, yield	Seed, Fertilizers	48000	47000	25	0	0	0	0	0	25	0	25
3	Mustard; JD 6/Keshari	10	Soil test based N, P, K + 30 kg S/ha+ two foliar spray of boron along with micronutrient mixture (Aquacal)	No. of pods/plant, test weight, oil content yield	Seed, Sulfur, boron	30000	29000	10	0	0	0	15	0	25	0	25
4	Kharif Groundnut; TG51	10	Improved variety with secondary and micronutrient management	No. of pods/plant, yield	Seed of TG 51	42000	40000	10	0	0	0	15	0	25	0	25
5	Lentil; WBL 77	10	Treatment of seed with	No. of pods/plant,	Seed, sulfur, micronutrien	26000	25000	10	0	0	0	15	0	25	0	25

			rhizobium; 15:40:20 N:P:K and 30 kg S/ha; Soil application of $ZnSO_4$ @ 10 kg/ha; 2 foliar spray of boron @ pre and post flowering	yield	t											
6	Tissue cultured Banana Var. Grand Naine	2	Tissue cultured plantlets (Var. Grand Naine)	Yield, B:C ratio	Tissue cultured plantlets	160000	135000	5	10					5	10	15
7	Onion, Var Agrifound Dark Red	3	Variety (Seeds) (Var Agrifound Dark Red)	Yield, B:C ratio	Seeds	105000	Replacement of upland and medium land paddy	10	10					10	10	20
8	Cauliflower	3	Vegetable seedlings transplanter and pluck tray/potray	Seedling mortality, Labour requirement, B:C ratio	Vegetable seedlings transplanter and pluck tray/potray	132000	148000	5	5					5	5	10
9	Mushroom Var. Oyster	20 nos. beneficiaries	Improved production technology	Yield, B: C ratio	Mushroom spawn, poly packets, chemicals	5490	5000	5	5	0	0	5	5	10	10	20
10	Brinjal Var. Local	1	Integrated pest management on *Leucinodes orbonalis* 1. Install pheromone traps 10/acre for mass trapping at 10 m distance from 20 DAT, the pheromone septa should be changed at regular	Yield, B:C ratio	Pheromone trap 10/ acre for mass trapping and spray azadirachtin 0.03% neem oil	50000	47000	15	5					15	5	20

			interval. 2. Spray azadirachtin 0.03% (300 ppm) neem oil based WSP @ 1000-2000 ml in 200-400 l of water/acre													
TOTAL		**79**						**105**	**35**	**0**	**0**	**65**	**5**	**170**	**40**	**210**

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	Improved production technology of jute	1	PF	1 day	Off	10	0	0	0	15	0	25	0	25
	ICM of rice	1	PF	1 day	Off	10	0	0	0	15	0	25	0	25
	Improved production technology of rabi groundnut	2	PF	1 day	Off	15	0	0	0	60	05	75	05	80
	Nutrient management of mustard	2	PF	1 day	Off	20	10	0	0	50	10	70	20	90
	INM on lentil	1	PF	1 day	Off	20	10	0	0	20	0	40	10	50
	Improved cultivation of	1	PF	1 day	Off	15	15	0	0	0	0	15	15	30

	tissue culture banana													
	Improved production technology of kharif onion	1	PF	1 day	Off	15	15	0	0	0	0	15	15	30
	Improved production technology of Oyster Mushroom	1	RY and Farm women	1	Off	5	5	0	0	5	5	10	10	20
Field visits	Field visit	20	PF	Half day each	Off	190	65	0	0	310	10	500	75	575
Field day	Feld day on all crops	12	PF	Half day each	Off	228	78	0	0	372	12	600	90	690
	Field day on Banana, Onion , cauliflower	3	PF	Half day each	Off	15	0	15	0	60	0	90	0	90
	Improved production technology of Oyster Mushroom	1	RY and Farm women	1	Off	5	5	0	0	10	10	15	15	30

* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

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.)**

Rice	MTU 7029	June – Dec, 2021	4	Foundation seed	210	400000	1000000	600000
Rice	Satabdi	June – Dec, 2021	1	Foundation seed	20	40000	100000	60000
Fruit saplings	Mango, Guava, Citrus	June to Sept	-	Saplings	3000 nos	40000	120000	80000
Vegetable seedlings	Tomato, brinjal	June to Sept	-	Seedlings	50000 nos	15000	40000	25000

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.)
Rice	MTU 7029	June – Dec, 2021	100	250	TL seed	4500	4800000	9000000	4200000

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	15	690	90	780	30	4	0	4	694	90	784
2.	Kisan Mela	1	256	44	300	30	0	0	0	256	44	300
3.	Kisan Ghosthi	5	112	38	150	35	0	0	0	112	38	150
4.	Exhibition											
5.	Film Show	20	327	73	400	30	0	0	0	327	73	400
6.	Method Demonstrations	10	124	26	150	40	0	0	0	124	26	150
7.	Farmers Seminar	1	24	6	30	30	0	0	0	24	6	30
8.	Workshop											
9.	Group meetings	4	100	30	130	60				100	30	130
10.	Lectures delivered as resource persons	8	70	10	80	30	90	30	120	160	40	200

11.	Advisory Services	20	50000	9000	59000	30	0	0	0	50000	9000	59000
12.	Scientific visit to farmers field	40	550	50	600	30	0	0	0	550	50	600
13.	Farmers visit to KVK	200	760	140	900	30	0	0	0	760	140	900
14.	Diagnostic visits	10	54	13	67	21	0	0	0	54	13	67
15.	Exposure visits	1	24	6	30	30	0	0	0	24	6	30
16.	Ex-trainees Sammelan	1	25	5	30	30				25	5	30
17.	Soil health Camp	6	273	9	282	15	10	3	13	283	12	295
18.	Animal Health Camp	1	35	15	50	30	0	0	0	35	15	50
19.	Agri mobile clinic											
20.	Soil test campaigns	6	100	12	112	24	0	0	0	100	12	112
21.	Farm Science Club Conveners meet	1	25	5	30	30	0	0	0	25	5	30
22.	Self Help Group Conveners meetings	1	25	10	35	30	0	0	0	25	10	35
23.	Mahila Mandals Conveners meetings	1	0	40	40	30	0	0	0	0	40	40
24.	Celebration of important days (specify)	8	210	40	250	30	0	0	0	210	40	250
25.	Sankalp Se Siddhi											
26.	Swatchta Hi Sewa	6	50	10	60	30	0	0	0	50	10	60
27.	Mahila Kisan Diwas	1	0	35	35	30	0	0	0	0	35	35
28.	Any Other (World Soil Day)	1	40	10	50	100	0	0	0	40	10	50
	Total	**368**	**53774**	**9687**	**63461**	**745**	**104**	**33**	**137**	**53878**	**9720**	**63598**

7. Revolving Fund (in Rs.)

Opening balance of 2020-2021	Amount proposed to be invested during 2021-2022	Expected Return
15.96	**5.00**	**8.00**

8. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
CFLD	**NFSM**	**7.40**
ATMA	**Purba Bardhaman, Paschim Bardhaman**	**10.00**
MGNREGAS		**2.5**

9. On-farm trials to be conducted*

OFT 1:

Sl no.	Particulars	Details
1	**Season**	Summer 2021
2	**Title of the OFT**	Assessment of different production system of jute for system productivity and profitability under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Integrated crop management
4	**Problem Diagnosed**	Low system yield coupled with high cost of cultivation leading to low profitability of jute
5	**Important Cause**	Single cropping of jute leading to low profitability owing to high cost of production
6	**Production System**	Jute based production system
7	**Micro farming System**	Sole cropping of jute
8	**Technology for Testing**	Intercropping and mixed cropping with jute using mechanical means
9	**Existing Practice**	Sole cropping of jute with broadcasting
10	**Hypothesis**	Intercropping and mixed cropping with jute using mechanical means should lead to higher system productivity and enhanced profitability
11	**Objective(s)**	1. Improve system productivity of jute cropping system 2. Enhanced profitability using mechanical means
12	**Treatments:**	**Farmers Practice (FP):** Sole cropping of jute with broadcasting **Technology option-I (TO-I):** Mixed cropping of Jute + Red/green amaranthus with broadcasting **Technology option-II (TO-II):** Mixed cropping of Jute + Red/green amaranthus with line sowing of jute using seed drill **Technology option-III (TO-III):** Jute + Greengram intercropping (3:2) using seed drill + mixed cropping of Red/green amaranthus in jute rows **Technology option-IV (TO-IV):** Jute + Red/green amaranthus mixed cropping using nail weeder

13	**Critical Inputs**	Seed, seed drills, nail weeder
14	**Unit Size**	0.007 ha
15	**No of Replications**	10
16	**Unit Cost**	--
17	**Total Cost**	Rs. 10000
18	**Monitoring Indicator**	System productivity, benefit:cost ratio
19	**Source of Technology**	ICAR-CRIJAF, Barrackpore

OFT 2 (2nd Year):

Sl no.	Particulars	Details
1	**Season**	Kharif 2021
2	**Title of the OFT**	**Assessment of efficacy of different herbicides on weed control of transplanted rice during kharif season under medium upland situation of Burdwan district**
3	**Thematic Area**	Weed management
4	**Problem Diagnosed**	Infestation of weed leading to reduction in yield
5	**Important Cause**	Improper land preparation coupled with inefficient weed control
6	**Production System**	Rice based production system
7	**Micro farming System**	Transplanted rice farming under medium upland situation
8	**Technology for Testing**	Application of selective herbicides
9	**Existing Practice**	Non application on inefficient application of herbicide
10	**Hypothesis**	Application of improved herbicide for efficient control of weed should lead to augmented productivity
11	**Objective(s)**	Increasing productivity of paddy
12	**Treatments:**	**Farmers Practice (FP):** Application of butachlor 50% EC @ 1.25 kg. a.i./ha **Technology option-I (TO-I):** Application of pyrazosulfuron ethyl 10 % WP @ 160 g a.i./ ha within 4 DAT **Technology option-II (TO-II):** Application of Bispyribac sodium 10% SC @25 g a.i./ ha 15-20 DAT. **Technology option-III (TO-III):** Application of penoxulum 21.7 % SC @ 20 g a.i./ ha at 15-20 DAT
13	**Critical Inputs**	pyrazosulfuron ethyl 10 % WP, Bispyribac sodium 10% SC, penoxulum 21.7 % SC
14	**Unit Size**	0.13 ha
15	**No of Replications**	6
16	**Unit Cost**	Rs. 1500
17	**Total Cost**	Rs. 9000
18	**Monitoring Indicator**	Yield, weed density
19	**Source of Technology**	BCKV, Mohanpur

OFT 3:

Sl no.	Particulars	Details
1	**Season**	Rabi
2	**Title of the OFT**	Weed management of onion
3	**Thematic Area**	Production technology

4	**Problem diagnosed**	Weed infestation is a major problem in onion cultivation particularly at the early stage of crop growth leading to reduction in yield
5	**Important Cause**	Lower return due to high cost of manual hand weeding operation
6	**Production system**	Jute-Paddy- vegetable cropping system
7	**Micro farming system**	Irrigated Medium Land
8	**Technology for Testing**	ICAR- CRIJAF Nail Weeder and Cycle weeder
9	**Existing Practice**	Hand weeding
10	**Hypothesis**	Use of ICAR- CRIJAF Nail Weeder and Cycle weeder may reduce cost of cultivation and improve B:C ratio
11	**Objective(s)**	Significant yield improvement as well as increase in income
12	**Treatments:**	**Farmers Practice (FP):** Three hand weeding **Technology option-I (TO-I):** One hand weeding + weeding by ICAR- CRIJAF Nail Weeder (2 times) **Technology option-II (TO-II):** One hand weeding + weeding by ICAR- CRIJAF Cycle Weeder (2 times) **Technology option-III (TO-III):** Application of Pre emergence herbicides (Pendimethalin) + weeding by ICAR-CRIJAF Cycle weeder (2 times)
13	**Critical Inputs**	ICAR- CRIJAF Nail Weeder, Cycle weeder and pendimethalin
14	**Unit Size**	0.1 ha
15	**No of Replications**	7
16	**Unit Cost**	4000
17	**Total Cost**	Rs.28000
18	**Monitoring Indicator**	Yield, no of man days for weeding, cost benefit ratio
19	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	ICAR- CRIJAF

OFT 4:

Sl no.	**Particulars**	**Details**
1	**Season**	Rabi
2	**Title of the OFT**	Assessment of sulphur and boron application on curd quality and yield in cauliflower
3	**Thematic Area**	Vegetable cultivation
4	**Problem diagnosed**	Browning and hollow stem is common problem in cauliflower associated with lower yield with lack of flavor
5	**Important Cause**	Browning and hollow stem is common problem in cauliflower due to boron deficiency and lower yield with lack of flavor is also common due to sulphur deficiency
6	**Production system**	Vegetable- Jute-rice cropping system
7	**Micro farming system**	Irrigated Medium Land
8	**Technology for Testing**	Sulphur and boron
9	**Existing Practice**	Application of only primary fertilizers
10	**Hypothesis**	Application of Sulphur improves the yield and flavor of the curds and boron can considerably check browning or hollow stem in cauliflower

11	**Objective(s)**	Control of browning with increase yield and quality of curd.
12	**Treatments:**	**Farmers Practice (FP):** Recommended dose of NPK **Technology option-I (TO-I):** Recommended dose of NPK+ Sulphur 20 Kg/ha as basal **Technology option-II (TO-II):** Recommended dose of NPK+ Sulphur 20 Kg/ha as basal+ 10 kg borax/ha as basal **Technology option-III (TO-III):** Recommended dose of NPK+ Sulphur 20 Kg/ha as basal+ Foliar spray of boron(3 times)
13	**Critical Inputs**	Sulphur, borax and boron for foliar spray
14	**Unit Size**	0.1 ha
15	**No of Replications**	10
16	**Unit Cost**	1800
17	**Total Cost**	18000
18	**Monitoring Indicator**	Percent of browning/hollow stem, curd yield and B:C ratio
19	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	TNAU

OFT 5:

Sl no.	**Particulars**	**Details**
1	**Season**	Rabi
2	**Title of the OFT**	Varietal trial of Hybrid tomato
3	**Thematic Area**	Production technology
4	**Problem diagnosed**	Abhilash is being cultivated for several years; Yield of Tomato is not upto its potential due to multiple disease infestations like leaf curl, wilt and blight.
5	**Important Cause**	Lower yield due to high infestation of disease particularly leaf curl
6	**Production system**	Jute- vegetable cropping system
7	**Micro farming system**	Irrigated Medium Land
8	**Technology for Testing**	Newly released Hybrid varieties
9	**Existing Practice**	Abhilash
10	**Hypothesis**	Newly released multi disease resistant varieties may improve yield
11	**Objective(s)**	Significant yield improvement as well as increase in income
12	**Treatments:**	**Farmers Practice (FP):** Abhilash **Technology option-I (TO-I):** Arka Samrat **Technology option-II (TO-II):** Arka Rakshak
13	**Critical Inputs**	Seeds
14	**Unit Size**	**0.05 ha**
15	**No of Replications**	7
16	**Unit Cost**	2000
17	**Total Cost**	**Rs.14000**
18	**Monitoring Indicator**	Yeld, disease infestation, cost benefit ratio
19	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	ICAR IIHR

*Repeat the same format for EACH OFT being proposed.

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	Cereal System Initiative for South Asia	160000

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

- Entrepreneurship development with seed production of groundnut
- Sustainable production and income augmentation from mustard cultivation
- Seed production of paddy in seed village mode

12. Scientific Advisory Committee

Date of SAC meeting held during 2020-21	Proposed date during 2021-2022
30.03.2021	**December, 2021**

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	50	10	0	0	0	90	0	100	0	100	10	200
Water Samples												
Other (Please specify)												
Total												

14. Fund requirement and expenditure (Rs.)*

Heads	Expenditure (last year) (Rs.) up to Nov, 2020	Expected fund requirement (Rs.)
Salary	**94,90,748.00**	**1,62,00,000.00**
T.A	**60,041.00**	**1,50,000.00**
Contingency SCSP	**5,86,810.00**	**13,00,000.00**
Contingency Normal	**2,43,078.00**	**8,00,000.00**
Equipment & furniture (Non recurring)	**--**	**2,00,000.00**
Works (Non recurring)		
Threshing Floor		**2,50,000.00**
Poly House		**4,00,000.00**
Repairing of implement shed		**3,00,000.00**
Poultry/duckery unit		**2,50,000.00**
Maintenance of trainees' hostel and administrative building		**3,00,000.00**
Vehicle	**--**	**8,00,000.00**
Two wheeler		**1,30,000.00**

Total	**1,03,80,677.00**	**2,10,80,000.00**

* 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