ACTION PLAN

(January, 2021 to December, 2021)

NADIA KRISHI VIGYAN KENDRA

Bidhan Chandra Krishi Viswavidyalaya

Indian Council of Agricultural Research

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C O N T E N T

ACTION PLAN – 2021

1. Name of the KVK: Nadia Krishi Vigyan Kendra

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2.Name of host organization:

Address	Telephone		E mail
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Bidhan Chandra Krishi Viswavidyalaya P.O. Mohanpur, Dist. Nadia, West Bengal PIN – 741 252	033-25876048	033-25870523 033-25820465	deebckv@gmail.com Website: www.bckv.edu.in

3.Training programme to be organized (January 2021- to December 2021)

(a) Farmers and farmwomen

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
I. Crop Production														
Weed Management	Integrated weed management for Rice	2	1	OFF	04.03.22 12.03.22	20	5	5	2	25	3	50	10	60
	Integrated weed management for sesame	1	1	OFF	08.04.21 13.04.21	12	3	2	1	10	2	24	6	30
Resource Conservation Technologies														
Cropping Systems														
Crop Diversification	Cultivation of alternative profitable crops	2	1	ON/ OFF	08.02.22 04.11.21	20	5	5	2	25	3	50	10	60
Integrated Farming	Different components of Integrated farming system and their role	1	1	OFF	20.04.21	12	3	2	1	10	2	24	6	30
	Structure of Integrated farming system & their management	2	1	OFF / ON	12.08.21 14.09.21	20	5	5	2	25	3	50	10	60
Micro irrigation/irrigation														
Seed production														
Nursery management	Seedbed preparation of Kharif Rice	1	1	OFF	20.05.21	12	3	2	1	10	2	24	6	30
	Seedbed preparation	2	1	ON/	11.06.21	20	5	5	2	25	3	50	10	60

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	of Kharif Rice			OFF	18.06.21									
	Seedbed preparation of Boro rice	2	1	ON	11.02.20 18.02.20	20	5	5	2	25	3	50	10	60
Integrated Crop Management														
Soil & water conservation														
Integrated nutrient Management	Integrated nutrient management paddy	1	1	OFF	19.06.21	12	3	2	1	10	2	24	6	30
Production of organic inputs														
Others (Production technology)	Cultivation of fodder crops	1	1	OFF	11.01.22	12	3	2	1	10	2	24	6	30
	Retting of Jute	1	1	OFF	14.05.21	12	3	2	1	10	2	24	6	30
	Production technology of Rice	2	1	ON/ OFF	05.07.21 14.07.20	20	5	5	2	25	3	50	10	60
	Intercultural operations of rice	2	1	OFF	06.08.21 03.09.21	20	5	5	2	25	3	50	10	60
	Cultivation practice of mustard	2	1	OFF	15.10.21 28.10.21	20	5	5	2	25	3	50	10	60
	Harvesting and storage of rice	1	1	OFF	04.11.21	12	3	2	1	10	2	24	6	30
	Cultivation practice of Potato	2	1	OFF	12.11.21 26.11.21	20	5	5	2	25	3	50	10	60
	Intercultural operation of potato	2	1	OFF	10.12.21 16.12.21	20	5	5	2	25	3	50	10	60
II. Horticulture														
a) Vegetable Crops														
Production of low volume and high	Production technology of high	1	1	OFF	September	12	3	2	1	10	2	24	6	30

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
value crops	value Vegetables													
Off season vegetables	Off season vegetable cultivation for better economic return	2	1	ON	April, May	20	20	4	2	10	4	34	26	60
Nursery raising	Seed bed and Seedling management of vegetables crops	2	1	ON/ OFF	July, August	20	20	4	2	10	4	34	26	60
Exotic vegetables	Cultivation of exotic vegetables	1	1	ON	November	12	3	2	1	10	2	24	6	30
Grading and standardization	Packaging of fruits and vegetables	1	1	OFF	January	3	2	1	1	5	18	21	9	30
Protective cultivation	Protected cultivation of vegetables	2	1	ON/ OFF	September, December	20	20	4	2	10	4	34	26	60
Others (Production technology)	Advanced Agro techniques for Cultivation of early Solanaceous crop	2	1	ON	September, October	24	6	4	2	20	4	48	12	60
b) Fruits														
Training and Pruning	HDP and Canopy management of fruit crops	2	1	ON/ OFF	March, October	20	20	4	2	10	4	34	26	60
Layout and Management of Orchards	Orchard planning and management	1	1	OFF	July	12	3	2	1	10	2	24	6	30
Cultivation of Fruit	Advanced agro-technique for fruit cultivation: mango, banana, Litchi and Guava	2	1	ON	July, November	20	20	4	2	10	4	34	26	60
Rejuvenation of old orchards	Rejuvenation of old Mango orchards	1	1	ON	March	12	3	2	1	10	2	24	6	30

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Micro irrigation systems of orchards	Micro irrigation practices in fruit plants	1	1	ON	May	12	3	2	1	10	2	24	6	30
Plant propagation techniques	Propagation of major fruit crops	1	1	ON	July	12	3	2	1	10	2	24	6	30
c) Ornamental Plants														
Nursery Management	Nursery management of ornamental crops	1	1	ON	February	12	3	2	1	10	2	24	6	30
Management of potted plants	Pot culture: a new approach of crop production.	1	1	ON	December	12	3	2	1	10	2	24	6	30
Propagation techniques of Ornamental Plants	Methods of Propagation of Ornamental Plants	1	1	ON	February	12	3	2	1	10	2	24	6	30
d) Plantation crops														
Production and Management technology	Propagation of Black Pepper through rapid multiplication method	1	1	ON	August	12	3	2	1	10	2	24	6	30
	Profit maximization through arecanut based Cropping system.	1	1	ON	August	12	3	2	1	10	2	24	6	30
	Profit maximization through coconut based Cropping system	1	1	ON	October	12	3	2	1	10	2	24	6	30
e) Tuber crops														
Production and Management technology	Cultivation of Elephant foot Yam: A high profitable crop	1	1	OFF	April	12	3	2	1	10	2	24	6	30
f) Spices														

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Production and Management technology	Advances production technology of Seed Spices	1	1	OFF	November	12	3	2	1	10	2	24	6	30
III. Soil Health and Fertility Management														
Soil fertility management	Tools for soil health management	3	1	OFF	06.04.21 07.06.21 22.12.21	30	5	0	0	20	5	50	10	60
	Production technology of compost	5	1	OFF	16.04.20 18.05.20 21.10.21 28.12.21 09.02.22	60	15	0	0	40	10	100	25	125
	Nutrient management for Jute	1	1	OFF	18.05.21	10	1	1	1	12	0	23	2	25
	Nutrient management for Kharif paddy	2	1	OFF	15.06.21 18.06.21 08.07.21	37	2	5	2	26	3	68	7	75
	Nutrient management for rabi crops	2	1	OFF	30.10.21 16.12.21	11	2	2	0	9	1	22	3	25
Integrated Nutrient Management	Integrated nutrient management for major vegetable crops	2	1	OFF	12.04.21 21.09.21	22	2	2	0	22	2	46	4	50
Production and use of organic inputs	Production technology of different organic inputs	2	1	OFF	11.05.21 13.08.21	20	2	2	1	22	3	44	6	50
Micro nutrient deficiency in crops	Effect of Zn on rice	2	1	OFF	23.12.21 02.01.22	25	1	3	1	18	2	46	4	50
Nutrient Use Efficiency	Methods for improving nutrient use efficiency	2	2	ON	18.06.21 22.12.21	20	1	0	0	18	1	38	2	40

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Soil & water testing	Methods of soil collection	2	1	ON	18.11.20 03.12.20	20	2	2	1	22	3	44	6	50
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)														
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														

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
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														
VI. Agril. Engineering														
Installation and maintenance of micro irrigation systems														
Use of Plastics in farming practices														

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Production of small tools and implements														
Repair and maintenance of farm machinery and implements														
Small scale processing and value addition														
Post Harvest Technology	Preservation and processing of fruits and vegetables	1	1	OFF	15.04.21	3	8	0	2	3	9	6	19	25
Others, if any														
VII. Plant Protection														
Integrated Pest Management	Integrated pest management of sesame and green gram	1	1	OFF	16.04.21	12	1	2	1	9	0	23	2	25
	Integrated pest management of floricultural crops in poly house	1	1	Off	07.05.21	7	0	1	0	12	0	20	0	20
	Integrated pest management of cucurbitaceous crops	2	1	OFF	04.05.21 21.06.21	20	5	5	0	15	5	40	10	50
	Integrated pest management of early winter season vegetables.	2	1	OFF	05.08.21 26.08.21	26	1	7	2	12	2	45	5	50

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	IPM on kharif paddy	2	1	OFF	19.07.21 31.08.21	22	1	5	2	16	4	43	7	50
	Integrated pest management of boro paddy	2	1	OFF	10.12.21 07.01.22	24	1	5	2	14	4	43	7	50
	Integrated pest management of Rabi oilseeds	1	1	OFF	22.10.21	13	1	1	1	9	0	23	2	25
	Integrated pest management of mango	1	1	OFF	14.02.22	8	1	3	1	10	2	21	4	25
Integrated Disease Management	Integrated disease management of jute	2	1	OFF	10.05.21 14.06.21	25	1	6	2	12	4	43	7	50
	Integrated disease management of cucurbitaceous crops	1	1	OFF	17.05.21	8	2	3	0	10	2	21	4	25
	Integrated disease management of winter vegetables	1	1	OFF	26.10.21	12	2	2	0	9	0	23	2	25
	Integrated disease management Rabi pulses	2	1	OFF	11.11.21 26.11.21	24	1	6	2	13	4	43	7	50

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	Integrated disease management of mango	1	1	OFF	21.03.22	8	1	3	1	10	2	21	4	25
Bio control of pests and diseases	Biological control of fruit fly in mango	1	1	OFF	14.02.22	8	1	3	1	10	2	21	4	25
	Biological control of fruit fly in cucurbitacious crops	1	1	OFF	21.06.21	13	1	1	1	9	0	23	2	25
	Biological control of fruit fly in guava	1	1	OFF	18.06.21	12	2	2	0	9	0	23	2	25
Production of bio control agents and bio pesticides	Small scale production of *Trichoderma viride*	1	1	ON	28.10.21	7	0	1	0	12	0	20	0	20
Others	Nursery management of early winter season crops against pest & diseases	2	1	OFF	06.07.21 2707.21	24	1	6	2	13	4	43	7	50
VIII. Fisheries														
Integrated fish farming														
Carp breeding and hatchery management														
Carp fry and fingerling rearing														
Composite fish culture & fish disease														
Fish feed														

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
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														
IX. Production of Input at site														
Seed Production	Seed production and storage of Elephant Foot Yam	1	1	OFF	16.04.21	12	1	2	1	9	0	23	2	25
	Indigenous methods of storing seeds	1	1	OFF	22.04.21	14	2	2	1	11	0	27	3	30
	Pollination management in	1	1	OFF	13.05.21	12	1	2	1	9	0	23	2	25

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	vegetable seed production													
	Seed Production of Blackgram	2	1	OFF	03.06.21 17.06.21	25	1	6	2	12	4	43	7	50
	Seed Production of Greengram	2	1	OFF	01.07.21 15.07.21	25	1	6	2	12	4	43	7	50
	Seed Production of Mustard	2	1	OFF	05.08.21 12.08.21	24	1	6	2	13	4	43	7	50
	Pollination management in vegetable seed production	1	1	ON	31.08.21	12	1	2	1	9	0	23	2	25
	Seed Production of Lentil	2	1	OFF	03.09.21 09.09.21 16.09.21 23.09.21	24	1	6	2	13	4	43	7	50
	Seed Production of Chickpea	2	1	OFF	07.10.21 21.10.21	24	1	6	2	13	4	43	7	50
	Seed production of paddy	2	1	OFF	02.12.21 09.12.21	24	1	6	2	13	4	43	7	50
	Seed Production of Groundnut	1	1	OFF	10.01.22	12	1	2	1	9	0	23	2	25
	Seed Production of Sesame	2	1	OFF	03.02.22 07.02.22 10.02.22	24	1	6	2	13	4	43	7	50
Planting material production														
Bio fertilizer production														
Vermi compost production	Production technology of vermi	2	1	ON	14.09.21 03.03.22	25	2	0	0	20	3	45	5	50

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	compost													
Organic manures production														
Mushroom production														
Apiculture														
X. Capacity Building and Group Dynamics														
Leadership development														
Group dynamics	Promotion and upliftment of FPOs/FPCs	4	1	OFF	19.04.21 21.05.21 07.08.21 11.11.21	34	13	0	0	57	21	91	34	125
Formation and Management of SHGs														
Mobilization of social capital	Development of human resource through skill development trainings	5	1	OFF	11.04.21 16.05.21 08.08.21 21.09.21 30.11.21	35	10	10	5	70	20	115	35	150
Entrepreneurial development of farmers/youths	Training on food preservation	2	1	OFF	17.05.21 24.09.21	8	12	0	0	15	25	23	27	60
WTO and IPR issues														
Others	Extension interventions, strategies and developmental issues	5	1	OFF	14.04.21 16.05.21 11.08.21 27.09.21 05.11.21	25	10	10	5	35	15	70	30	100

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
XI. Agro forestry														
Production technologies														
Nursery management														
Integrated Farming Systems	Components of integrated farming system	2	1	OFF	08.07.21 23.07.21	20	6	3	1	12	8	35	15	50
	Space/land allocation in Integrated farming system models.	2	1	OFF	05.08.20 28.08.20	20	6	3	1	12	8	35	15	50
	Structure of Integrated farming system	2	1	ON	05.11.20	20	6	3	1	12	8	35	15	50
XII. Others (Pl. Specify)														

Rural youths

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Mushroom	Production technology of mushroom	3	4	ON	15.06.21 12.08.21 07.01.22	30	9	30	9	6	6	66	24	90
Integrated farming system	Management of different component of integrated farming system	1	1	ON	06.05.21	10	4	2	1	10	3	22	8	30
Seed production	Techniques of open pollinated and hybrid seed production of different vegetable crops	2	1	ON	11.09.21 18.09.21	24	10	6	2	23	5	53	17	70
	Hybrid seed production of Rice	2	1	ON	02.12.21 09.12.21	24	10	6	2	23	5	53	17	70
Production of organic inputs	Compost production technologies	2	1	ON	21.07.21 12.02.22	16	3	7	1	10	3	33	7	40
Planting material production	Planting material production of Horticultural crops	1	2	ON	September	5	15	0	2	2	6	7	23	30
Vermiculture	Vermicompost production methodologies	1	2	ON	06.10.21	8	2	3	1	9	2	20	5	25
Commercial fruit production	Production technology of commercial fruits	1	1	ON	May	8	2	3	1	9	2	20	5	25
Protected cultivation	Protected cultivation of vegetable crops	1	2	ON	November	15	3	2	0	10	0	27	3	30
Production of Bio control agents	Production technology of *Trichoderma spp*	1	2	ON	10.12.21	8	2	4	2	2	2	14	6	20
Bee keeping	Scientific bee keeping techniques	4	7	on	03 -09 May, 21	55	0	7	0	38	0	100	0	100

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
					01-07 June, 21 14-20 June, 21 22-24 June , 21									
Integrated nutrient management	Management of Soil health	1	1	ON	21.09.21	7	2	3	1	9	3	19	6	25
Nursery Management	Nursery Management of Horticulture crops	1	2	ON	February	5	15	0	2	2	6	7	23	30
Value addition	Market value based value addition of field crops	1	1	On	April	10	2	2	0	12	4	24	6	30
	Value addition in vegetables and flowers.	1	2	ON	May	5	15	0	2	2	6	7	23	30

(b) Extension functionaries

Thrust area/ Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Month	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Productivity enhancement in field crops	Important cultural practices of different field crops	2	2	ON	12.10.221 16.03.222	18	6	4	1	25	6	47	13	60
Integrated pest management	Integrated pest & disease management of crops	1	1	ON	31.01.22	13	1	1	0	4	1	18	2	20
Value addition	Value addition and preservation of different field crops	2	1	ON	February	22	4	4	2	24	4	50	10	60
	Value addition in vegetables and flowers	2	1	ON	May, November	20	20	4	2	10	4	34	26	60
Protected cultivation	Protected cultivation technology	2	1	ON	February, December	20	20	4	2	10	4	34	26	60
Production and use of organic inputs	Different methods of composting	1	1	ON	25.11.21	9	1	1	0	12	2	22	3	25
	Bio pesticide production	2	1	ON	10.11.21 08.12.21	28	4	4	0	40	4	72	8	80
Seed Production	Seed certification procedure	2	1	ON	27.11.21 18.12.21	20	10	0	0	20	10	40	20	60

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	3	35	5	40	32	8	40	7	3	10	74	16	90
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification	2	25	3	28	20	5	25	5	2	7	50	10	60
Integrated Farming	3	35	5	40	32	8	40	7	3	10	74	16	90
Water management													
Seed production													
Nursery management	5	60	8	68	52	13	65	12	5	17	124	26	150
Integrated nutrient Management	1	10	2	12	12	3	15	2	1	3	24	6	30
Integrated Crop Management													
Fodder production	1	10	2	12	12	3	15	2	1	3	24	6	30
Production of organic inputs													
Others, (cultivation of crops)	12	145	19	164	124	31	155	29	12	41	298	62	360
TOTAL	**27**	**320**	**44**	**364**	**284**	**71**	**355**	**64**	**27**	**91**	**668**	**142**	**810**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	1	10	2	12	12	3	15	2	1	3	24	6	30
Off-season vegetables	2	10	4	14	20	20	40	4	2	6	34	26	60

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
Nursery raising	2	10	4	14	20	20	40	4	2	6	34	26	60
Exotic vegetables like Broccoli	1	10	2	12	12	3	15	2	1	3	24	6	30
Export potential vegetables													
Grading and standardization	1	5	18	23	3	2	5	1	1	2	21	9	30
Protective cultivation (Green Houses, Shade Net etc.)	2	10	4	14	20	20	40	4	2	6	34	26	60
Others, if any (Cultivation of Vegetable)	2	20	4	24	24	6	30	4	2	6	48	12	60
TOTAL	**11**	**75**	**38**	**113**	**111**	**74**	**185**	**21**	**11**	**32**	**219**	**111**	**330**
b) Fruits													
Training and Pruning	2	10	4	14	20	20	40	4	2	6	34	26	60
Layout and Management of Orchards	1	10	2	12	12	3	15	2	1	3	24	6	30
Cultivation of Fruit	2	10	4	14	20	20	40	4	2	6	34	26	60
Management of young plants/orchards													
Rejuvenation of old orchards	1	10	2	12	12	3	15	2	1	3	24	6	30
Export potential fruits													
Micro irrigation systems of orchards	1	10	2	12	12	3	15	2	1	3	24	6	30
Plant propagation techniques	1	10	2	12	12	3	15	2	1	3	24	6	30
Others, if any(INM)													
TOTAL	**8**	**60**	**16**	**76**	**88**	**52**	**140**	**16**	**8**	**24**	**164**	**76**	**240**
c) Ornamental Plants													
Nursery Management	1	10	2	12	12	3	15	2	1	3	24	6	30
Management of potted plants	1	10	2	12	12	3	15	2	1	3	24	6	30
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants	1	10	2	12	12	3	15	2	1	3	24	6	30
Others, if any													
TOTAL	**3**	**30**	**6**	**36**	**36**	**9**	**45**	**6**	**3**	**9**	**72**	**18**	**90**
d) Plantation crops													
Production and Management	3	30	6	36	36	9	45	6	3	9	72	18	90

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
technology													
Processing and value addition													
Others, if any													
TOTAL	**3**	**30**	**6**	**36**	**36**	**9**	**45**	**6**	**3**	**9**	**72**	**18**	**90**
e) Tuber crops													
Production and Management technology	1	10	2	12	12	3	15	2	1	3	24	6	30
Processing and value addition													
Others, if any													
TOTAL	**1**	**10**	**2**	**12**	**12**	**3**	**15**	**2**	**1**	**3**	**24**	**6**	**30**
f) Spices													
Production and Management technology	1	10	2	12	12	3	15	2	1	3	24	6	30
Processing and value addition													
Others, if any													
TOTAL	**1**	**10**	**2**	**12**	**12**	**3**	**15**	**2**	**1**	**3**	**24**	**6**	**30**
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
HORTICULTURE TOTAL	**27**	**215**	**70**	**285**	**295**	**150**	**445**	**53**	**27**	**80**	**575**	**235**	**810**
III. Soil Health and Fertility Management													
Soil fertility management	13	107	19	126	148	25	173	8	3	11	263	47	310
Soil and Water Conservation													
Integrated Nutrient Management	2	22	2	24	22	2	24	2	0	2	46	4	50

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and use of organic inputs	2	22	3	25	20	2	22	2	1	3	44	6	50
Management of Problematic soils													
Micro nutrient deficiency in crops	2	18	2	20	25	1	26	3	1	4	46	4	50
Nutrient Use Efficiency	2	18	1	19	20	1	21	0	0	0	38	2	40
Soil and Water Testing	2	22	3	25	20	2	22	2	1	3	44	6	50
Others, if any													
TOTAL	**23**	**209**	**30**	**239**	**255**	**33**	**288**	**17**	**6**	**23**	**481**	**69**	**550**
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													
Enterprise development													
Value addition													

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
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	1	3	9	12	3	8	11	0	2	2	6	19	25
Others, if any													
TOTAL	**1**	**3**	**9**	**12**	**3**	**8**	**11**	**0**	**2**	**2**	**6**	**19**	**25**
VII. Plant Protection													
Integrated Pest Management	12	97	17	114	132	11	143	29	9	38	258	37	295
Integrated Disease Management	7	54	12	66	77	7	84	20	5	25	151	24	175
Bio-control of pests and diseases	3	28	2	30	33	4	37	6	2	8	67	8	75
Production of bio control agents and bio pesticides	1	12	0	12	7	0	7	1	0	1	20	0	20
Others, if any	2	13	4	17	24	1	25	6	2	8	43	7	50
TOTAL	**25**	**204**	**35**	**239**	**273**	**23**	**296**	**62**	**18**	**80**	**539**	**76**	**615**
VIII. Fisheries													

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
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	19	136	28	164	232	13	245	52	19	71	420	60	480
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production	2	20	3	23	25	2	27	0	0	0	45	5	50
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL	**21**	**156**	**31**	**187**	**257**	**15**	**272**	**52**	**19**	**71**	**465**	**65**	**530**
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics	4	57	21	78	34	13	47	0	0	0	91	34	125
Formation and Management of SHGs													
Mobilization of social capital	5	70	20	90	35	10	45	10	5	15	115	35	150
Entrepreneurial development of farmers/youths	2	15	25	40	8	12	20	0	0	0	23	27	60
WTO and IPR issues													
Others, if any	5	35	15	50	25	10	35	10	5	15	70	30	100
TOTAL	**16**	**177**	**81**	**258**	**102**	**45**	**147**	**20**	**10**	**30**	**299**	**126**	**435**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems	6	36	24	60	60	18	78	9	3	12	105	45	150
TOTAL	**6**	**36**	**24**	**60**	**60**	**18**	**78**	**9**	**3**	**12**	**105**	**45**	**150**
XII. Others (Pl. Specify)													
GRAND TOTAL	**146**	**1320**	**324**	**1644**	**1529**	**363**	**1892**	**277**	**112**	**389**	**3138**	**777**	**3925**

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	6	6	12	30	9	39	30	9	39	66	24	90
Bee-keeping	4	38	0	0	55	0	55	7	0	7	100	0	100
Integrated farming	1	10	3	13	10	4	14	2	1	3	22	8	30
Seed production	4	46	10	56	48	20	68	12	4	16	106	34	140
Production of organic inputs	2	10	3	13	16	3	19	7	1	8	33	7	40
Planting material production	1	2	6	8	5	15	20	0	2	2	7	23	30
Vermi-culture	1	9	2	11	8	2	10	3	1	4	20	5	25
Sericulture													
Protected cultivation of vegetable crops	1	10	0	10	15	3	18	2	0	2	27	3	30
Commercial fruit production	1	9	2	11	8	2	10	3	1	4	20	5	25
Integrated Pest Management													
Integrated disease Management													
Production of bio control agents and bio pesticides	1	2	2	4	8	2	10	4	2	6	14	6	20
Integrated nutrient management	1	9	3	12	7	2	9	3	1	4	19	6	25
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops	1	2	6	8	5	15	20	0	2	2	7	23	30
Training and pruning of orchards													
Value addition	2	14	10	24	15	17	32	2	2	4	31	29	60

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
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													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Enterprise development													
Others if any (ICT application in agriculture)													
TOTAL	**23**	**167**	**53**	**182**	**230**	**94**	**324**	**75**	**26**	**101**	**472**	**173**	**645**

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	25	6	31	18	6	24	4	1	5	47	13	60
Integrated Pest disease Management	1	4	1	5	13	1	14	1	0	1	18	2	20
Bio pesticide production technology	2	40	4	44	28	4	32	4	0	4	72	8	80
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition	4	34	8	42	42	24	66	8	4	12	84	36	120
Protected cultivation technology	2	10	4	14	20	20	40	4	2	6	34	26	60
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													

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
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs	3	52	6	58	37	5	42	5	0	5	94	11	105
Gender mainstreaming through SHGs													
Crop intensification													
Others if any (Seed production)	2	20	10	30	20	10	30	0	0	0	40	20	60
TOTAL	**16**	**185**	**39**	**224**	**178**	**70**	**248**	**26**	**7**	**33**	**389**	**116**	**505**

4. Frontline demonstration to be conducted*:

FLD 1

Crop : Mango
Thrust Area : Judicious application of insecticide
Thematic Area : Plant protection
Season : Summer
Farming Situation : Irrigated orchard

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.)/ ha			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Mango	10.0 ha	Fruit fly management using Methyl euzinol trap	% fruit infestation	Methyl euzinol	1,12,000	1,22,000	7	0	2	0	6	0	15	0	15

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Preparation of Methyl euzinol trap	2	Farmers & farm women	1	OFF	30	2	2	0	18	8	50	10	60
Field Day	Field day on Fruit fly management	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 2

Crop : Guava
Thrust Area : Judicious application of insecticide
Thematic Area : Plant protection
Season : All season
Farming Situation : Irrigated orchard

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.)/ ha			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Guava	5.0 ha	Fruit fly management using Methyl euzinol trap	% fruit infestation	Methyl euzinol	1,35,000	1,52,000	10	0	0	0	5	0	15	0	15

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Preparation of Methyl euzinol trap	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field Day	Field day on Fruit fly management	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 3

Crop : Cucurbitacious vegetables
Thrust Area : Judicious application of insecticide
Thematic Area : Plant protection
Season : Rainy
Farming Situation : Irrigated vegetable based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Cucurbits	5.0 ha	Fruit fly management using Cuelure trap	% fruit infestation	Cuelure	1,05,000	1,17,000	14	2	2	1	16	0	32	3	35

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Preparation of Methyl Cuelure trap	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field Day	Field day on Fruit fly management	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	2	Farmers & farm women	1	OFF	8	2	4	2	10	4	22	8	30

FLD 4

Crop : Chilli
Thrust Area : Judicious application of insecticide
Thematic Area : Plant protection
Season : Rabi
Farming Situation : Irrigated vegetable based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Chilli	3.0 ha	Yellow mite management: Spraying with Spiromesifen	yield	Spiromesifen	1,27,000	1,35,000	5	1	1	0	7	1	13	2	15

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Yellow mite management	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 5

Crop : Banana
Thrust Area : Judicious application of insecticide
Thematic Area : Plant protection
Season : kharif
Farming Situation : Irrigated vegetable based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Banana	2.0 ha	Panama wilt management through Sucker treatment	Yield	Carbendazim	2,25,000	2,37,000	7	1	0	0	12	0	19	1	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Panama wilt management	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field Day	Field day on Panama wilt management	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 6

Crop : Cauliflower
Thrust Area : Judicious application of nutrients
Thematic Area : Integrated nutrient management
Season : Rabi
Farming Situation : Irrigated farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ha			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Cauliflower	2.0 ha	Micronutrient application (Boron)	Yield	Boron	120000	110000	8	0	2	0	10	0	20	0	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Micronutrient deficiency and recommendation	2	Farmers & farm women	1	OFF	30	2	2	0	18	8	50	10	60
Field Day	Field day on micronutrient application	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 7

Crop : Paddy
Thrust Area : Judicious application of nitrogenous fertilizer
Thematic Area : Integrated nutrient management
Season : All season
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Paddy	10.0	Leaf Colour Chart	Yield and decrease in amount of nitrogenous fertilizer	LCC	4500	-	10	2	0	0	15	3	25	5	30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Tool for increasing Nitrogen Use Efficiency	2	Farmers & farm women	1	OFF	30	2	2	0	18	8	50	10	60
Field Day	Use of LCC in paddy	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	2	Farmers & farm women	1	OFF	8	2	4	2	10	4	22	8	30

FLD 8

Crop : All crops
Thrust Area : Judicious application of nutrients
Thematic Area : Integrated nutrient management
Season : All season
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	All crops	6 units	Composting techniques	Yield and % decrease in use of fertilizer	Novcom solution	600 per unit	-	10	2	0	0	15	3	25	5	30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Preparation of compost heap and organic inputs	2	Farmers & farm women	1	OFF	30	2	2	0	18	8	50	10	60
Field Day	Preparation of compost heap and organic inputs	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	2	Farmers & farm women	1	OFF	8	2	4	2	10	4	22	8	30

FLD 9

Crop : Kharif Paddy
Thrust Area : Improvement of soil health
Thematic Area : Integrated nutrient management
Season : Kharif
Farming Situation : Irrigated farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Kharif paddy	2.0	Green manuring	Yield and soil properties	Dhaincha seed	92000	90000	10	2	0	0	15	3	25	5	30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Effect of green manuring on soil health	2	Farmers & farm women	1	OFF	30	2	2	0	18	8	50	10	60
Field Day	Process of green manuring	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	2	Farmers & farm women	1	OFF	8	2	4	2	10	4	22	8	30

FLD 10

Crop : Paddy
Thrust Area : Judicious application of nutrients
Thematic Area : Integrated nutrient management
Season : Rabi
Farming Situation : Irrigated up and mid land based farming situation

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Paddy	6.0 ha	Spraying with micronutrient	Yield	Zinc	50000	45000	25	1	3	1	18	2	46	4	50

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Integrated Nutrient management for Paddy	1	Farmers & farm women	1	OFF	28	2	5	1	22	3	55	5	60
Field Day	Integrated Nutrient management for Paddy	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 11

Crop : All crops
Thrust Area : Use of biological inputs
Thematic Area : Integrated nutrient and pest management
Season : All season
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	All crops	10 units	Microbial consortium (Waste Decomposer)	Soil health and yield of crop	Plastic drum, jaggery, Waste Decomposer	10000	-	10	2	0	0	15	3	25	5	30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Waste decomposer solution and its use	2	Farmers & farm women	1	OFF	30	2	2	0	18	8	50	10	60
Field Day	Preparation of waste decomposer	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	2	Farmers & farm women	1	OFF	8	2	4	2	10	4	22	8	30

FLD 12

Crop : Jute
Thrust Area : Promotion of retting process of Jute
Thematic Area : Crop production
Season : Pre-kharif
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Jute	2.0 ha	Improved retting process of Jute using NINFET Sathi	Yield of fibre	NINFET Sathi	46000	45000	7	1	4	2	5	1	16	4	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Cultivation practice of Jute	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 13

Crop : Sesame
Thrust Area : Judicious application of nutrients
Thematic Area : Integrated nutrient management
Season : Summer
Farming Situation : Irrigated up and mid land based farming situation

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Sesame	2.0 ha	Spraying with micronutrient (Boron)	Yield	Boron	34000	32000	5	2	1	0	12	0	18	1	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Integrated Nutrient management in Oil seed crops	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 14

Crop : Boro Paddy
Thrust Area : Judicious application of agro chemical (Herbicide)
Thematic Area : Crop production: Weed management
Season : Rabi
Farming Situation : Irrigated up and mid land based farming situation

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Boro Paddy	2.0 ha	Spraying of herbicide	Yield	Herbicide (Pretilachlor @ 360 ml/acre)	62000	60000	9	1	1	1	4	4	14	6	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Judicious use of herbicide	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 15

Crop : Mustard
Thrust Area : Judicious application of nutrients
Thematic Area : Integrated nutrient management
Season : Rabi
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Mustard (YSH-0401)	2.0 ha	Spraying with micronutrient (Boron)	Yield	Boron	33000	31000	6	1	0	0	13	0	19	1	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Nutrient management for mustard	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 16

Crop : Vegetables (Solanaceous and cole crops)
Thrust Area : Quality seedling/ planting material production
Thematic Area : Horticulture: Nursery raising
Season : Kharif
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Vegetables	20 units	Seedlings raising in plug trays	Yield	Plug Tray	20250	13500	7	7	1	1	3	1	11	9	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Technique for Seedlings raising in plug trays	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 17

Crop : Banana
Thrust Area : Promotion of quality of fruit crops
Thematic Area : Horticulture: Value addition
Season : Pre & Post Kharif
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Banana	3.0 ha	Polypropelene bunch cover	% of scar free finger	Bunch cover	33000	24000	7	7	1	1	3	1	11	9	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Role of Bunch cover in Banana	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field Day	Impact of Bunch cover in Banana	2	Farmers & farm women	1	OFF	10	2	4	2	16	6	30	10	40
Field visit	Field visit	2	Farmers & farm women	1	OFF	8	2	4	2	10	4	22	8	30

FLD 18

Crop : Leafy vegetables (Palak, Coriander and Radish)
Thrust Area : Year round production of vegetable crops
Thematic Area : Horticulture: Off season cultivation of vegetables
Season : Pre Kharif & Kharif
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1	Leafy vegetables	20 units	Off season vegetable cultivation using low cost protected structure	Yield	Vegetable seeds	30000	15000	7	7	1	1	3	1	11	9	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Off season vegetable cultivation	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field Day	Off season leafy vegetables cultivation	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 19

Crop : Cucumber
Thrust Area : Profitability enhancement through increasing production
Thematic Area : Horticulture: Improved production technology of vegetable
Season : Summer & Kharif
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ ha			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Cucumber	3.0	Production technology through use of ethrel @ 150 ppm at 2-4 leaf stage	Yield	Ethrel	2,12,700	2,01,900	7	7	1	1	3	1	11	9	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Field Day	Production technology of Cucumber	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 20

Crop : Elephant foot yam
Thrust Area : Promotion of production of tuber crops
Thematic Area : Horticulture: Cultivation of tuber crop
Season : Summer & Kharif
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)/ ha			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Elephant foot yam	1.0 ha	Improved Variety: Bidhan Kusum	Yield	Seed tuber	170000	148000	7	7	1	1	3	1	11	9	20

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Cultivation of tuber crops	1	Farmers & farm women	1	OFF	10	2	5	0	10	3	25	5	30
Field Day	Field day on elephant foot yam cultivation	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15

FLD 21

Crop : Blackgram
Thrust Area : Promotion of pulse based cropping system through quality seed production
Thematic Area : Seed treatment
Season : *Kharif*
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Blackgram (PU 31, IPU-02-43)	5.0 ha	Seed treatment with biofertilizer and foliar spray	Yield, germination %, seed vigour, Net Return, B:C Ratio	biofertilizer and 12:61:0	29250	28500	25	0	0	0	15	0	40	0	40

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Seed Production of Blackgram with application of Biofertilizer and foliar spray	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field Day	Field day on Seed Production of Blackgram	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field visit	Field visit	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40

FLD 22

Crop : Lentil
Thrust Area : Promotion of pulse based cropping system through quality seed production
Thematic Area : Seed treatment
Season : *Rabi*
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Lentil (Moitree)	5.0 ha	Seed treatment with biofertilizer and foliar spray	Yield, germination %, seed vigour, Net Return, B:C Ratio	biofertilizer and micronutrient	29250	28500	25	0	0	0	15	0	40	0	40

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Seed Production of Blackgram with application of Biofertilizer and foliar spray	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field Day	Field day on Seed Production of Blackgram	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field visit	Field visit	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40

FLD 23

Crop : Green gram
Thrust Area : Promotion of pulse based cropping system through quality seed production
Thematic Area : Seed treatment
Season : Summer
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Green gram (Samrat)	5.0 ha	Seed treatment with biofertilizer and foliar spray	Yield, germination %, seed vigour, Net Return, B:C Ratio	biofertilizer and 12:61:0	29250	28500	25	0	0	0	15	0	40	0	40

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Seed Production of Blackgram with application of Biofertilizer and foliar spray	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field Day	Field day on Seed Production of Blackgram	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field visit	Field visit	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40

FLD 24

Crop : Sesame
Thrust Area : Promotion of oil based cropping system through quality seed production
Thematic Area : Seed treatment
Season : Summer
Farming Situation : Irrigated up and mid land based farming situation

Sl.No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Sesame (Savitri)	5.0 ha	Seed treatment with chemicals and foliar spray	Yield, germination %, seed vigour, Net Return, B:C Ratio	PPC and 12:61:0 and Sulphur	29250	28500	25	0	0	0	15	0	40	0	40

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Seed Production of Blackgram with application of Biofertilizer and foliar spray	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field Day	Field day on Seed Production of Blackgram	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40
Field visit	Field visit	1	Farmers & farm women	1	OFF	25	0	0	0	15	0	40	0	40

FLD 25

Enterprise : Backyard Poultry rearing
Thrust Area : Promotion of improved breed of poultry
Thematic Area : Livestock Production and Management
Season : All season
Farming Situation : NA

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.)/ chicks			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
1	Backyard Poultry rearing	300 nos.	Kadaknath breed of chicks	Live weight, Net Return, B:C Ratio	Chicks, feed and vaccine	150	100	5	20	0	0	2	3	7	23	30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration (Days)	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Training	Improved management practices of Kadaknath breed rearing	2	Farmers & farm women	1	OFF	10	40	0	0	4	6	14	46	60
Animal health camp	Creation of awareness and vaccination scheduling	1	Farmers & farm women	1	OFF	5	20	0	0	2	3	7	23	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 (q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy	IET-4786	June-Nov, 2020	0.4	Seed	12.0	20,000.00	35,000.00	15,000.00
Elephant foot yam	Bidhan Kusum	April-Nov, 2020	0.4	Seed	40.0	45,000.00	1,00,000.00	55,000.00
Blackgram	PU-31	Aug-Nov, 2020	0.13	Seed	1.5	5,000.00	9,000.00	4,000.00
Greengram	Samrat	Feb-May, 2020	0.13	Seed	1.5	5,000.00	9,000.00	4,000.00
Sesame	Savitri	Feb-May, 2020	0.13	Seed	1.5	5,000.00	8,000.00	4,000.00
Different Planting Materials	-	Round the year	-	Seedling & Saplings	1,00,000 Nos.	2,60,000.00	4,00,000.00	1,40,000.00

(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	IET-4786	June-Nov, 2020	13.3	100	Seed	480.0	5,00,000.00	9,60,00.00	4,60,000.00
Lentil	Moitree	Nov,20-Mar-20	10.0	75	Seed	112.0	4,50,000.00	7,84,000.00	3,34,000.00
Blackgram	PU-31	Aug-Nov, 2020	10.0	75	Seed	112.0	4,50,000.00	7,84,000.00	3,34,000.00
Greengram	Samrat	Feb-May, 2020	5.0	35	Seed	60.0	2,75,000.00	4,50,000.00	1,75,000.00
Sesame	Savitri	Feb-May, 2020	10.0	75	Seed	112.0	4,35,000.00	6,72,000.00	2,37,000.00

6. Extension Activities:

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	M	F	Total	M	F	Total
Field Day	20	300	100	400	45	30	5	35	330	105	435
KisanMela	01	1200	700	1900	42	100	30	130	900	330	2030
Kisan Ghosthi	10	200	100	300	45	12	4	16	212	104	316
Exhibition	04	400	300	700	40	12	5	17	412	305	717
Film Show	05	250	50	300	40	8	3	11	258	53	311
Method Demonstrations	05	86	17	103	38	12	8	20	98	25	123
Farmers Seminar	01	100	30	130	40	5	1	6	105	31	136
Workshop	-	-	-	-	-	-	-	-	-	-	-
Group meetings	05	35	12	47	42	6	2	8	41	14	55
Lectures delivered as resource persons	40	1000	300	1300	35	35	5	40	1035	305	1340
Advisory Services	450	1600	400	2000	38	400	50	450	2000	450	2450
Scientific visit to farmers field	180	850	150	1000	40	210	30	240	1060	180	1240
Farmers visit to KVK	250	4000	2000	6000	40	400	80	480	4400	2080	6480
Diagnostic visits	100	90	10	100	42	70	30	100	160	40	200
Exposure visits	30	500	275	775	35	40	5	45	540	280	820
Ex-trainees Sammelan	01	26	16	42	40	6	2	8	32	18	50
Soil health Camp	01	32	12	44	36	4	2	6	36	14	50
Animal Health Camp	06	247	81	328	75	18	4	22	265	85	350
Agri mobile clinic	-	-	-	-	-	-	-	-	-	-	-
Soil test campaigns	25	875	72	947	42	62	14	76	937	86	1023
Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-
Self Help Group Conveners meetings	07	100	50	150	44	18	6	24	118	56	174
Mahila Mandals Conveners meetings	03	48	22	70	46	2	6	8	50	28	78

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	M	F	Total	M	F	Total
Celebration of important days (World soil day, Kishan Day, Ghandi Jayanti, World Women day, World coconut day)	05	100	50	150	40	16	5	21	116	55	171
Sankalp Se Siddhi	-	-	-	-	-	-	-	-	-	-	-
Swatchta Hi Sewa	28	324	220	544	45	78	22	100	402	242	644
Mahila Kisan Divas	01	0	30	30	40	4	1	5	4	35	39
Any Other (Communicated from time to time)	05	250	100	350	45	12	4	16	262	104	366
Total	1183	12613	5097	17710	42.3	1560	324	1884	13773	5025	19598

7. Revolving Fund (in Rs.):

Opening balance of 2019-20 (As on 01.04.2020)	Amount proposed to be invested during 2021	Expected Return
41,07,300.00	**5,00,000.00**	**8,00,000.00**

8. Expected fund from other sources and its proposed utilization:

Project	Source	Amount to be received (Rs. in lakh)
Short term Research	ATMA	5.00
Demonstration, Farmers-Scientist Interaction	ATMA	3.00
DAESI	Input Dealers through Dept. of Agriculture	16.00
Technology Week/ Kishan Mela	NABARD	1.00

9. On-farm trials to be conducted*:

OFT-1

1	Season	*kharif* .
2	Title of OFT	**Assessment of efficiency of some chemicals in management of blast of paddy**
3	Thematic area	**Integrated disease management**
4	Problem diagnosed	Heavy loss in paddy due to blast disease.
5	Important cause	Paddy is the most important crop and this crop is cultivated mainly in kharif and rabi season. But it is badly affected by blast disease caused by *Pyricularia oryzae*. It may cause up to 20% loss of the crop in kharif season.
6	Production system	Paddy based production system.
7	Micro-farming situation	Irrigated crop
8	Technology for testing	IPM: seed treatment and spraying with fungicide
9	Existing practice	Indiscriminate use of fungicide after appearance of blast disease.
10	Hypothesis	Seed treatment removes seed born diseases and helps to grow healthy seedlings and fungicides helps to control the disease.
11	Objective	To increase crop productivity with the disease control.
12	Treatments	**Farmers' practice:** Indiscriminate use of pesticide fungicide like carbendazim, mancozeb **Technology option 1:** Seed treatment with Thiram 75% @ 2.5 g/ Kg of seed and Spraying with Tricyclozole 75 WP @ 1.5 g/L after initiation of infestation **Technology option 2:** Seed treatment with Thiram 75% @ 2.5 g/ Kg of seed and Spraying with Azoxystrobin 25 Sc @ 1.5 ml/L after initiation of infestation
13	Critical inputs	Fungicide
14	Unit size	0.133
15	No. of replication	7
16	Unit cost	Rs. 1000.00
17	Total cost involved	Rs. 7000.00
18	Monitoring indicator	Percent disease index (before and after treatment), total production, total income, B:C
19	Source of Technology (ICAR/ AICRP/ SAU/ Other	BCKV.

OFT-2

1	Season	*Kharif*
2	Title of OFT	**Assessment of efficiency of some chemicals for management of Downy mildew in cucumber**
3	Thematic area	**Integrated disease management**
4	Problem diagnosed	Heavy loss of yield in cucumber due downy mildew disease infestation.
5	Important cause	Cucumber is a major vegetable of Nadia District, being a profitable crop, a large number of farmers prefer to grow this crop, but they face huge loss due to downy mildew disease. It reduces 15-55% yield and it sometime becomes difficult to manage the infestation.
6	Production system	Vegetable based production system.
7	Micro-farming situation	Irrigated crop
8	Technology for testing	Efficacy of some chemicals.
9	Existing practice	Random use of fungicide like carbendazim, mancozeb etc.
10	Hypothesis	Some fungicide can effectively control the growth and sporulation of the causal organism *Peronospora spp.*
11	Objective	To increase crop productivity with effective management of the disease.
12	Treatments	**Farmers' practice:** Indiscriminate use of pesticide fungicide like carbendazim, mancozeb, propiconazole **Technology option 1:** seedling raising in poly packet under 60 mesh insect proof net, spraying with cymoxanil 8% + Mancozeb 50% @ 2.0 g/L after initiation of infestation. **Technology option 2:** seedling raising in poly packet under 60 mesh insect proof net, spraying with Azoxystrobin 23% SC @ 1.5ml/L after initiation of infestation.
13	Critical inputs	Fungicide
14	Unit size	0.133
15	No. of replication	7
16	Unit cost	Rs. 1000.00
17	Total cost involved	Rs. 7000.00
18	Monitoring indicator	No. of plant infested in terms of percent disease index (PDI) before and after treatment, total production, total income, B:C
19	Source of Technology (ICAR/ AICRP/ SAU/ Other	BCKV.

OFT-3

1	Season	*Rabi*
2	Title of OFT	**Evaluation of different biological inputs for improving the soil health and productivity of lentil**
3	Thematic area	Integrated Nutrient Management
4	Problem diagnosed	Soil health, particularly the biological properties of the soil are degrading every moment with over use of synthetic products. Lentil is the most neglected crop with minimum management practices followed in this region therefore having low yield but having high potential.
5	Important cause	There is lack of knowledge, skill and as well as the farmers haven't much option to choose the proper methodology of preparing and using biological inputs.
6	Production system	Jute-Kharif Paddy-lentil
7	Micro-farming situation	Irrigated low-medium land.
8	Technology for testing	Waste Decomposer solution and Jiwamitra application on soil and crop
9	Existing practice	Indiscriminate and imbalanced use of synthetic fertilizer without addition of any organic inputs.
10	Hypothesis	Waste Decomposer and Jiwamtira application will improve the soil biological as well as physico-chemical properties and improve soil health towards sustainable productivity.
11	Objective	To access the best biological inputs in terms of soil quality indicator and yield for the most potential but highly neglected pulse crop, lentil under irrigated farming situation of New Alluvial Zone, Nadia district.
12	Treatments	**Farmers' practice:** Imbalanced or no use of fertilizer without any organic input **Technology option 1:** Application of Waste Decomposer solution (During each irrigation @200L solution for 1 Acre + Foliar spray in 1:3 ratio with water at 15 days interval) **Technology option 2:** Application of Jiwamitra solution (During each irrigation @200L solution for 1 Acre + Foliar spray @10% solution at 15 days interval)
13	Critical inputs	Waste Decomposer, Cow dung, Cow urine, Jaggery, pulse flour
14	Unit size	0.133 ha
15	No. of replication	7
16	Unit cost	Rs.1,000/-
17	Total cost involved	Rs. 7,000/-
18	Monitoring indicator	Plant Height, No. of primary branches/plant, Pod/plant, Seed/pod, 1000 seed weight, Seed yield, Soil properties, Cost of cultivation, Gross return, Net return
19	Source of Technology (ICAR/ AICRP/ SAU/ Other	National Centre of Organic Farming, Gaziabad, Zero Budget Natural Farming

OFT-4

1	Season	*Kharif*
2	Title of OFT	**Evaluation of integrated nutrient management practice through use of bio-fertilizer for Kharif paddy**
3	Thematic area	Nutrient Management
4	Problem diagnosed	The soils of the area are lacking with organic matter content and the farmers are habituated with such a cultivation practice where there is no or minimum use of any organic inputs in soil. Fertilizers are used randomly without maintaining proper dose. Therefore, the yield of paddy crop is diminishing with deterioration of soil health.
5	Important cause	Indiscriminate and imbalanced fertilizer use without addition of organic inputs in soil.
6	Production system	Paddy-Mustard-Paddy
7	Micro-farming situation	Medium/Low land
8	Technology for testing	Different methodologies to enhance integrated nutrient management
9	Existing practice	Nitrogenous fertilizer, particularly urea is applied in an indiscriminate way, simultaneous application of phosphorus and potassium fertilizers with proper dose haven't been maintained. No organic matter is applied in the fields.
10	Hypothesis	Use of BIO-NPK fertilizer can enhance the soil health condition with higher yield performance.
11	Objective	To evaluate the best option towards increased integrated nutrient management practice for Kharif paddy under rainfed farming situation of New Alluvial Zone, Nadia district.
12	Treatments	**Farmers' practice:** Imbalanced and indiscriminate nitrogen use **Technology option 1:** Recommended dose of fertilizer **Technology option 2:** BIO-NPK liquid bio-fertilizer + 75% of the recommended dose of fertilizer **Technology option 3:** BIO-NPK liquid bio-fertilizer + 50% of the recommended dose of fertilizer
13	Critical inputs	BIO-NPK liquid bio-fertilizer
14	Unit size	0.133 ha
15	No. of replication	5
16	Unit cost	Rs.1000/-
17	Total cost involved	Rs.5000/-
18	Monitoring indicator	Agronomic traits, Yield (t/ha), Soil physic-chemical properties, C:B ratio
19	Source of Technology (ICAR/ AICRP/ SAU/ Other)	National Bureau of Agriculturally important Micro-organisms, ICAR

OFT-5

1	Season	*Rabi*
2	Title of OFT	**Evaluation of different spacing of transplanted pot culture seedling of mustard during rabi season**
3	Thematic area	Crop production
4	Problem diagnosed	Decreasing productivity of mustard due to broadcasting and late planting
5	Important cause	Late sowing
6	Production system	Paddy-Mustard-Sesame
7	Micro-farming situation	Medium/Low land
8	Technology for testing	Different spacing for transplanted pot culture seedling of mustard
9	Existing practice	Broadcasting
10	Hypothesis	Maintaining proper planting distance for transplanted seedling may result higher growth and yield
11	Objective	To find out the best planting distance for transplanted mustard
12	Treatments	**Farmers' practice:** Broadcasting **Technology option 1:** Pot culture seedling (Spacing – 75 cm X 35 cm) **Technology option 2:** Pot culture seedling (Spacing – 50 cm X 50 cm) **Technology option 3:** Pot culture seedling (Spacing – 50 cm X 40 cm)
13	Critical inputs	Seed, pot
14	Unit size	0.133 ha
15	No. of replication	7
16	Unit cost	Rs.1000/-
17	Total cost involved	Rs. 7000/-
18	Monitoring indicator	Yield (t/ha)
19	Source of Technology (ICAR/ AICRP/SAU/Other)	State Govt.

OFT-6

1	Season	*Pre Kharif*
2	Title of OFT	**Evaluation of different sowing methods for increasing the productivity of Jute**
3	Thematic area	Crop production
4	Problem diagnosed	Decreasing productivity of jute associated with improper sowing methods
5	Important cause	Improper sowing methods of jute
6	Production system	Jute-Paddy-Lentil/Mustard
7	Micro-farming situation	Medium land
8	Technology for testing	Different sowing methodologies to enhance the productivity of Jute
9	Existing practice	Broadcasting of jute seed
10	Hypothesis	Proper sowing methods can enhance the productivity of Jute
11	Objective	To evaluate the best sowing method towards increased the productivity of Jute
12	Treatments	**Farmers' practice:** Improper sowing method (Broadcasting) **Technology option 1:** Line sowing with tine **Technology option 2:** Line sowing with seed drill
13	Critical inputs	Jute seed drill
14	Unit size	0.133 ha
15	No. of replication	7
16	Unit cost	Rs.1000/-
17	Total cost involved	Rs. 7000/-
18	Monitoring indicator	Plant height, dry matter, stem girth, disease pest incident, yield
19	Source of Technology (ICAR/ AICRP/SAU/Other)	BCKV

OFT-7

1	Season	*Summer*
2	Title of OFT	**Assessment of different bio products for increasing summer tomato production**
3	Thematic area	Horticulture
4	Problem diagnosed	Low profitability due to poor production of summer tomato (Var. Himsona/ Himshikhar) because of several adverse effect in summer season
5	Important cause	Production of tomato during summer season sometimes affected due to several adverse climatic as well as bio-stress condition prevailing during high temperature
6	Production system	Vegetable based cropping system
7	Micro-farming situation	Irrigated, medium to upland.
8	Technology for testing	Different kinds of bio products
9	Existing practice	Use of organic and chemical fertilizers without any Bio products
10	Hypothesis	The bio products may help more intake of nutrients, increase beneficial microorganisms in the soil, more growth and vigour of the crop, developing disease resistance and thereby to increase crop yield and quality products.
11	Objective	To identify suitable Bio product for increasing growth and yield of summer tomato
12	Treatments	**Farmers Practice:** Traditional practice without application of Bio products **Technology option-I:** Application of Arka Microbial Consortium as soil drenching mixed with water @ 20 g/L applied near to the root zone at 10th day after transplanting **Technology option-II:** Application of Activzyme @ 1 ml/L during vegetative, flowering, fruit-set and fruit development stages **Technology option-III:** Application of Agri Gold @ 2 g/L during vegetative, flowering, fruit-set and fruit development stages ****Spraying of Vegetable special (Zn, B, Mo) @ 1.5 g/L during flowering and fruiting is common to all treatments**
13	Critical inputs	Bio products (AMC, Activzyme, Agri-Gold) and micronutrient
14	Unit size	0.067 ha
15	No. of replication	7
16	Unit cost	1500.00
17	Total cost involved	10,500.00
18	Monitoring indicator	Plant height, No. of fruits/plant, fruit weight, Yield, Net return, B:C ratio
19	Source of Technology (ICAR/ AICRP/ SAU/ Other)	ICAR-IIHR, Modicare, Vestige

OFT-8

1	Season	*Rabi*
2	Title of OFT	**Effect of Mulching, border crops and sea weed extract on seed quality of Chilli (Variety: Bidhan Chilli-4).**
3	Thematic area	Seed Production
4	Problem diagnosed	Chilli is an often cross pollinated crop, where the extend of cross pollination is upto 7 to 36 %.Farmers save their own seed for OP varieties like Chilli, which are not 100% genetically pure. Minimum isolation distance required for Chilli is 400 m for foundation and hybrid seed and 200 m for certified seed production are necessary. But in Farmers field condition it's very tough to maintain such long isolation. To solve this problem we use 40 mesh sieve net cover for individual plant along with double row Sweet corn border.
5	Important cause	Seed quality plays an important role in the production of any crops. Characteristics such as 100% genetically pure seeds with high germination percentage, purity, vigor, and appearance are important to farmers. Achieving and maintaining high seed quality is the goal of this simple technical intervention.
6	Production system	Vegetable based production system
7	Micro-farming situation	Irrigated high/medium land.
8	Technology for testing	Two foliar spray of sea weed extract @ 2ml / *l* of water at 15 DAT and at flower initiation stage.
9	Existing practice	Farmers saved their own seed without any precautionary measure.
10	Hypothesis	Border row can prevent out crossing as well as pest-disease attack, 40 mesh sieve net maintain genetic purity.
11	Objective	Quality seed production
12	Treatments	**Farmer Practice :** Variety: Bidhan Chilli-4 with normal cultivation practices generally followed by the farmers. **Technology option1 :** 25 micron poly mulch + Crop border + 40 mesh sieve net cover for individual plant (10-15 plants only). **Technology option 2:** 25 micron poly mulch + Crop border + 40 mesh sieve net cover for individual plant (10-15 plants only) + two foliar spray of sea weed extract @ 2ml / *l* of water at 15 DAT and at flower initiation stage. **For Technology option 1 and Technology option 2:** Seed treatment- Carbendazim @ 2g per kg of seed. 450 *l of* water is required for spraying one hectare of land. In double row Sweet corn border the sweet corn seed will be sown on the same day of Chilli seed sowing i.e. in 1st week of August.

		Date of sowing 1st week of August and transplanting 1st week of September. Spacing: 50 cm X 50 cm Seed rate: 300-350 g/ ha Fertilizer : 60:60:60 basal and Water soluble fertilizer (18-18-18) @ 4 g/ *l* of water at 30-35 DAT and 50-55 DAT. Sea weed extract @ 2ml / *l* of water at 15 DAT and at flower initiation stage.
13	Critical inputs	Seed, 25 micron poly mulch, 40 mesh sieve net, Sea weed extract.
14	Unit size	0.133 ha
15	No. of replication	7
16	Unit cost	Rs.3,100/-
17	Total cost involved	Rs.21,700.00
18	Monitoring indicator	Plant height, No. of primary branches/plant, Fruit/plant, Fruit weight, Seed/fruit, 1000 seed weight, Seed yield, , Seed germination %, Seed vigour, Cost of cultivation, Gross return, Net return, BC ratio.
19	Source of Technology (ICAR/ ICRP/SAU/ Other	AICRP on Vegetable Crops, BCKV

Seaweed extracts: In biological agriculture and horticulture diluted **extracts** of **seaweed** are applied to promote growth, prevent pests and diseases and improve the quality of the products. The efficacy of the **extracts** is probably based upon plant hormones (mainly cytokinins) and trace nutrients present in the **extracts**. **Seaweed** contains phosphorous, which helps **plants** develop healthy and strong root systems. Seaweed and seaweed-derived products have been widely used as bio stimulants in crop production due to presence of multiple growth regulators such as cytokinin, auxins, gibberellins, betaines, as well as presence of macronutrients such as Ca, K, P, and micronutrients like Fe, Cu, Zn, B, Mn, Co and Mo, which are necessary for plant growth and development. Numerous studies have revealed a wide range of beneficial effects of seaweed extract on plants, such as early seed germination and establishment, better crop performance and yield, inducing resistance to biotic and abiotic stress and many more. This paper is an effort to review the importance of seaweed extract on germination, production, improvement of nutritional quality of agricultural crops which helps in further study of sea weed in agriculture.

OFT-9

1	Season	*Rabi*
2	Title of OFT	**Performance evaluation of foliar spray of Nutrients at flower initiation stage on Lentil**
3	Thematic area	Seed Production
4	Problem diagnosed	Low productivity of local cultivars during *Rabi* season under irrigated farming situation of high humid New Alluvial Zone, Nadia.
5	Important cause	Low production potentiality of **Lentil** due to neglected cultivation.
6	Production system	**Jute-Paddy-Lentil**
7	Micro-farming situation	Irrigated high/medium land.
8	Technology for testing	Foliar spray of urea @ 2g/ *l* of water at flower initiation stage Foliar spray of DAP @ 2g/ *l* of water at flower initiation stage
9	Existing practice	Local cultivars cultivated during *Rabi* season without any nutrients.
10	Hypothesis	**Lentil** required nitrogen during flowering stage due to reduced activity of *Rhizobium.*
11	Objective	To identify the best possible Management practice for *Rabi* season under irrigated farming situation of high humid New Alluvial Zone, Nadia.
12	Treatments	**Farmer Practice:** No foliar Spray of Nutrients **Technology option1:** Foliar spray of urea @ 2g/ *l* of water at flower initiation stage **Technology option 2:** Foliar spray of DAP @ 2g/ *l* of water 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) to T-1 & 2 **450 *l of* water** is required for spraying one hectare of land
13	Critical inputs	Neem coated Urea, DAP, *Rhizobium*, PSB
14	Unit size	0.133 ha
15	No. of replication	7
16	Unit cost	Rs.300/-
17	Total cost involved	Rs.6,300.00
18	Monitoring indicator	Plant Height, No. of primary branches/plant, Pod/plant, Seed/pod, 1000 seed weight, Seed yield, Cost of cultivation, Gross return, Net return, BC ratio, Seed germination %.
19	Source of Technology (ICAR/ ICRP/SAU/ Other	ATARI-Kolkata

OFT-10

1	Season	*Rabi*
2	Title of OFT	**Evaluation on impact of different microbial consortium on in situ crop residue decomposition**
3	Thematic area	Natural Resource Management
4	Problem diagnosed	Timely management of crop residue after harvesting of Kharif paddy is a serious concern for the farmers. They are compelled to burn the stubbles of the paddy crop which creates serious soil health deterioration and environmental hazard.
5	Important cause	Delayed sowing hampers the proper management practices ultimately reducing the crop yield.
6	Production system	Paddy-Mustard-Paddy
7	Micro-farming situation	Medium/Low land
8	Technology for testing	Different microbial consortium
9	Existing practice	Residue burning after Kharif paddy harvesting.
10	Hypothesis	Use of different microbial consortium under optimum soil moisture condition can decompose the crop residue in-situ within a short period of time.
11	Objective	To evaluate the best option towards speedy decomposition of crop residue after harvest.
12	Treatments	**Farmers' practice:** Burning of crop residues after harvest **Technology option 1:** Use of waste decomposer solution @500 lt/ha **Technology option 2:** Use of IARI microbial inoculant @ 3kg/ha along with urea @30kg/ha
13	Critical inputs	Waste decomposer and IARI microbial inoculants
14	Unit size	0.133 ha
15	No. of replication	7
16	Unit cost	Rs.1000/-
17	Total cost involved	Rs.7000/-
18	Monitoring indicator	Time of decomposition Soil physico-chemical and biological properties Labour cost User friendly technology Impact on succeeding crop management
19	Source of Technology (ICAR/ AICRP/ SAU/ Other)	National Centre of Organic Farming, Gaziabad and Indian Agricultural Research Institute (ICAR), Pusa, New Delhi.

OFT 11

1.	Season	All season
2.	Title of OFT	Assessment on impact of homemade compost on different cropping system
3.	Thematic area	Impact study
4.	Problem diagnosed	Indiscriminate use of chemical fertilizers vis-à-vis pesticides not only deteriorate soil health but also increase the cost of cultivation in various cropping systems. Besides, the traditions and belief behind use of chemical inputs in a broad spectrum hampers the environment as a whole. On the other hand, residue management of different field crops after crop cutting is also a grave concern now a day. These identified problems are kept in mind the present study on impact of homemade compost on different cropping system is laid out.
5.	Important cause	Improper waste management is a common practice which is not safe and can be replaced with safer waste management method such as composting. As a form of organic fertilizer, composting can play a significant role in improving environmental and human health.
6.	Production system	Crops and orchard
7.	Micro-farming situation	Irrigated/rainfed-Upland/medium land/low land
8.	Technology for testing	To identify the impact of homemade compost over chemical fertilizers in different cropping system
9.	Existing practice	No use of homemade compost in different cropping system
10.	Hypothesis	To find out the superior practice of farming between chemical inputs and homemade compost
11.	Objective	To identify the cost effective, eco-friendly and sustainable approach between chemical inputs and homemade compost
12.	Treatments	**Existing practice:** No use of homemade compost in different cropping system **Technology option 1:** Use of homemade compost in orchard based cropping system **Technology option 2:** Use of homemade compost in horticultural crops
13.	Critical inputs	NA
14.	Unit size	1
15.	No. of replication	7
16.	Unit cost	NA
17.	Total cost involved	NA
18.	Monitorable indicator	Percent decrease in chemical fertilizer use, Percent decrease in chemical pesticide use, Change in keeping quality, Percent increase in waste recycling, Percent increase in yield, Change in price of the produce
19.	Source of technology (ICAR/AICRP/SAU/Other)	BCKV

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.	DAESI	16,00,000.00
2.	ATMA funded Short term Research	5,00,000.00

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

1) Income generation through Mushroom production
2) Use of Waste decomposer as organic inputs

12. Scientific Advisory Committee:

Date of SAC meeting held during 2020-21	Proposed date during 2021
06.03.2021	September, 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	250	150	7	7	0	84	2	241	9	250	20	250
Water Samples	20	12	0	0	0	8	0	20	0	20	5	-
Other (Please specify)	-	-	-	-	-	-	-	-	-	-	-	-
Total	270	162	7	7	0	92	2	261	9	270	25	250

14. Fund requirement and expenditure (Rs.)*:

Heads	Expenditure (last year) (Rs.)	Expected fund requirement (Rs.) for F.Y. 2021-22
Pay & allowances	86,18,190.00	1,76,53,000.00
TA	30,461.00	1,00,000.00
HRD	10,540.00	50,000.00
Contingency	8,39,229.00	14,00,000.00
Non-recurring	-	-
Total	94,98,420.00	1,92,03,000.00

* 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:

Technology	Short details of the technology	Horizontal spread
Protected cultivation technology	Use of shadenet, naturally ventilated polyhouse and low cost structures to produce high quality flowers (Gerbera, Orchid), vegetables (Colored capsicum, off season leafy vegetable)	243 units of protected structures covering nearly 1,90,000 sq.m. area.
Adoption of banana bunch cover for increasing quality	50 micron white non-oven polypropylene cover of 80 cm breath and 120 cm length , both side open cover for banana bunch	More than 130 ha of land
Cultivation of nematode resistant variety of tuberose-prajjal	Tuberose variety Prajjal released from IIHR, having good nematode resistant character with good yield both as loose or stick harvest.	More than 1000 ha of land
Fruit fly management in fruit crops- like Mango, Guava and ber and vegetables like cucurbits.	Use of Methyl Euzinol trap for fruit crops and cuelure trap for vegetables crops.	More than 135 ha of land

Sr. Scientist & Head
Nadia KVK, BCKV