ACTION PLAN

(January, 2022 to December, 2022)

NADIA KRISHI VIGYAN KENDRA

Bidhan Chandra Krishi Viswavidyalaya

Indian Council of Agricultural Research

Gayeshpur, Nadia, West Bengal,PIN – 741 234

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C O N T E N T

ACTION PLAN – 2022

1. Name of the KVK:

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2. Name of host organization:

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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 2022- to December 2022)

(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														
Weed Management	Integrated weed management for Rice	2	1	OFF	March	20	5	5	2	25	3	50	10	60
	Integrated weed management for sesame	1	1	OFF	April	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	February November	20	5	5	2	25	3	50	10	60
Integrated Farming Micro irrigation/irrigation Seed production	Different components of Integrated farming system and their role	1	1	OFF	April	12	3	2	1	10	2	24	6	30
	Structure of Integrated farming system & their management	2	1	OFF / ON	August September	20	5	5	2	25	3	50	10	60
Nursery management	Seedbed preparation of Kharif Rice	1	1	OFF	May	12	3	2	1	10	2	24	6	30
	Seedbed preparation of Kharif Rice	2	1	ON/ OFF	June June	20	5	5	2	25	3	50	10	60
Integrated Crop	Seedbed preparation of Boro rice	2	1	ON	February	20	5	5	2	25	3	50	10	60

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
Management Soil & water conservation														
Integrated nutrient Management	Integrated nutrient management paddy	1	1	OFF	June	12	3	2	1	10	2	24	6	30
Production of organic inputs														
Others (Production technology)	Cultivation of fodder crops	1	1	OFF	January	12	3	2	1	10	2	24	6	30
	Retting of Jute	1	1	OFF	May	12	3	2	1	10	2	24	6	30
Weed Management	Production technology of Rice	2	1	ON/ OFF	July	20	5	5	2	25	3	50	10	60
	Intercultural operations of rice	2	1	OFF	August September	20	5	5	2	25	3	50	10	60
	Cultivation practice of mustard	2	1	OFF	October	20	5	5	2	25	3	50	10	60
	Harvesting and storage of rice	1	1	OFF	October	12	3	2	1	10	2	24	6	30
	Cultivation practice of Potato	2	1	OFF	November	20	5	5	2	25	3	50	10	60
	Intercultural operation of potato	2	1	OFF	December	20	5	5	2	25	3	50	10	60
	Integrated weed management for Rice	2	1	OFF	March	20	5	5	2	25	3	50	10	60
	Integrated weed management for sesame	1	1	OFF	April	12	3	2	1	10	2	24	6	30
II. Horticulture														
a) Vegetable Crops														
Vegetables: Production and management technology	Advanced Agro techniques for Cultivation of	1	1	ON	18.08.22	03	01	02	01	30	03	35	03	40

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
	solanaceous vegetables													
Vegetables: Production and management technology	Advanced Agro techniques for Cultivation of summer cole crops	1	1	ON	25.02.22	5	3	2	1	8	6	15	10	25
Vegetable: Nursery Management	Seed bed and Seedling management of vegetables crops	1	1	ON/OFF	08.07.22	5	3	2	1	8	6	15	10	25
Vegetable production	Techniques of organic vegetable production	1	1	ON	18.02.22	3	0	1	0	13	02	17	03	20
Vegetables: Production of low volume and high value crops	Agro techniques for off season vegetables cultivation	2	1	ON/OFF	14.01.22 24.06.22	3	1	2	1	25	3	30	5	35
Vegetable: Nutrition Garden	Women empowerment through nutrition garden	1	1	ON	18.03.22	0	6	0	1	0	23	0	30	30
Vegetables: Off-season vegetables	Planning and management of off season leafy vegetables for better economic return	1	1	OFF	10.06.22	5	3	2	1	8	6	15	10	25
Protective cultivation (Green Houses, Shade Net etc.)	Protected cultivation practices for flowers and vegetables	1	1	ON/OFF	13.12.22	5	3	2	1	8	6	15	10	25
Post-Harvest value addition	Value addition to fruits and vegetables	1	1	ON	18.05.22	5	3	2	1	8	6	15	10	25

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
B) Cultivation of Fruit														
Fruits: Training and Pruning	HDP and structural canopy management in fruits	1	1	ON/OFF	22.04.22	5	3	2	1	8	6	15	10	25
Cultivation of Fruit	Advanced agro-technique for fruit cultivation: mango, banana, Litchi and Guava	1	1	ON	13.06.22	5	3	2	1	8	6	15	10	25
Fruit cultivation	Flower and fruit setting management of Mango	1	1	OFF	16.03.22	05	01	02	0	20	02	27	03	30
Ornamental Plants : Nursery Management	Nursery management of ornamental crops.	1	1	ON	13.07.22	5	3	2	1	8	6	15	10	25
Floriculture	Advances in open field flower cultivation	1	1	ON	09.09.22	5	3	2	1	8	6	15	10	25
Plantation crops: Production and Management technology	Advances in production technology of Palms and betel vine.	1	1	ON	03.08.22	5	3	2	1	8	6	15	10	25
IFS: Production and Management technology	Profit maximization through multi-tier/ mixed/integrated farming system	1	1	ON/OFF	11.10.22	5	3	2	1	8	6	15	10	25
Medicinal & Aromatic Plants	Cultivation of Medicinal and Aromatic plants	1	1	ON	16.11.22	5	3	2	1	8	6	15	10	25
Spices : Production	Onion & Garlic: the	1	1	OFF	29.11.22	5	3	2	1	8	6	15	10	25

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
and Management technology	advances in production technology.													
III. Soil Health and Fertility Management														
Soil fertility management	Tools for soil health management	3	1	OFF	07.04.22 06.06.22 22.12.22	30	5	0	0	20	5	50	10	60
	Production technology of compost	5	1	OFF	12.04.22 17.05.22 19.09.22 24.10.22 28.12.22	60	15	0	0	40	10	100	25	125
	Nutrient management for Jute	1	1	OFF	19.05.22	10	1	1	1	12	0	23	2	25
	Nutrient management for Kharif paddy	2	1	OFF	15.06.22 20.06.22 08.07.22	37	2	5	2	26	3	68	7	75
	Nutrient management for rabi crops	2	1	OFF	28.10.22 23.11.22	11	2	2	0	9	1	22	3	25
Nutrient Use Efficiency	Methods for improving nutrient use efficiency	2	2	ON	01.06.22 12.12.22	20	1	0	0	18	1	38	2	40
Integrated Nutrient Management	Integrated nutrient management for major vegetable crops	2	1	OFF	12.04.22 13.09.22	22	2	2	0	22	2	46	4	50
Production and use of organic inputs	Production technology of different organic inputs	2	1	OFF	11.05.22 02.01.22	20	2	2	1	22	3	44	6	50

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
Micro nutrient deficiency in crops	Effect of Zn on rice	2	1	OFF	18.01.22 26.01.22	25	1	3	1	18	2	46	4	50
Soil & water testing	Methods of soil collection	2	1	ON	18.11.22 03.02.22	20	2	2	1	22	3	44	6	50
IV. Agril. Engineering														
V. Plant Protection														
Integrated Pest Management	Integrated pest management of sesame and green gram	1	1	OFF	15.04.22	12	1	2	1	9	0	23	2	25
	Integrated pest management of floricultural crops in poly house	1	1	Off	05.05.22	7	0	1	0	12	0	20	0	20
	Integrated pest management of cucurbitaceous crops	2	1	OFF	04.05.22 21.06.22	20	5	5	0	15	5	40	10	50
	Integrated pest management of early winter season vegetables.	2	1	OFF	04.08.22 26.08.22	26	1	7	2	12	2	45	5	50
	IPM on kharif paddy	2	1	OFF	19.07.22 30.08.22	22	1	5	2	16	4	43	7	50
	Integrated pest management of boro paddy	2	1	OFF	08.12.22 09.01.23	24	1	5	2	14	4	43	7	50
	Integrated pest	1	1	OFF	12.10.22	13	1	1	1	9	0	23	2	25

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
	management of Rabi oilseeds													
	Integrated pest management of mango	1	1	OFF	10.02.23	8	1	3	1	10	2	21	4	25
Integrated Disease Management	Integrated disease management of jute	2	1	OFF	10.05.22 14.06.22	25	1	6	2	12	4	43	7	50
	Integrated disease management of cucurbitaceous crops	1	1	OFF	17.05.22	8	2	3	0	10	2	21	4	25
	Integrated disease management of winter vegetables	1	1	OFF	27.10.22	12	2	2	0	9	0	23	2	25
	Integrated disease management Rabi pulses	2	1	OFF	11.11.22 24.11.22	24	1	6	2	13	4	43	7	50
	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	21.06.22	13	1	1	1	9	0	23	2	25
	Biological control of fruit fly in guava	1	1	Off	17.06.22	12	2	2	0	9	0	23	2	25
Production of bio control agents and bio pesticides	Small scale production of *Trichoderma*	1	1	on	28.10.22	7	0	1	0	12	0	20	0	20

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
	viride													
Others	Nursery management of early winter season crops against pest & diseases	2	1	OFF	15.07.22 25.07.22	24	1	6	2	13	4	43	7	50
VI. Production of Input at site														
Seed Production	Seed production and storage of Elephant Foot Yam	1	1	OFF	April	12	1	2	1	9	0	23	2	25
	Indigenous methods of storing seeds	1	1	OFF	April	14	2	2	1	11	0	27	3	30
	Pollination management in vegetable seed production	1	1	OFF	May	12	1	2	1	9	0	23	2	25
	Seed Production of Blackgram	2	1	OFF	June	25	1	6	2	12	4	43	7	50
	Seed Production of Greengram	2	1	OFF	July	25	1	6	2	12	4	43	7	50
	Seed Production of Mustard	2	1	OFF	August	24	1	6	2	13	4	43	7	50
	Pollination management in vegetable seed production	1	1	ON	August	12	1	2	1	9	0	23	2	25
	Seed Production of Lentil	2	1	OFF	September	24	1	6	2	13	4	43	7	50
	Seed Production of Chickpea	2	1	OFF	October	24	1	6	2	13	4	43	7	50
	Seed production of paddy	2	1	OFF	December	24	1	6	2	13	4	43	7	50

Thematic area	Title of Training	No.	Duration	Venue On/Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
	Seed Production of Groundnut	1	1	OFF	January	12	1	2	1	9	0	23	2	25
	Seed Production of Sesame	2	1	OFF	February	24	1	6	2	13	4	43	7	50
Planting material production														
Bio fertilizer production														
Vermi compost production	Production technology of vermi compost	2	1	ON	30.08.2022 10.11.2022	25	2	0	0	18	3	43	5	48
Organic manures production														
Mushroom production														
Apiculture														
VII. Capacity Building and Group Dynamics														
Leadership development														
Group dynamics	Development of extension communication perspective	1	1	ON/OFF	03.07.2022	14	4	0	0	14	8	28	12	40
Formation and Management of SHGs														
Mobilization of social capital	Development of household livelihood status	1	1	ON/OFF	17.08.2022	10	5	0	0	17	8	27	13	40
Entrepreneurial development of farmers/youths	Development of entrepreneurial skills	2	1	ON/OFF	09.12.2022	10	6	0	0	21	3	31	09	40
WTO and IPR														

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
issues														
Others														
IX. Agro forestry														
Integrated Farming Systems	Components of integrated farming system	2	1	OFF	July	20	6	3	1	12	8	35	15	50
	Space/land allocation in Integrated farming system models.	2	1	OFF	August	20	6	3	1	12	8	35	15	50
	Structure of Integrated farming system	2	1	ON	November	20	6	3	1	12	8	35	15	50

(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
Mushroom	Production technology of mushroom	3	4	ON	15.06.20 14.08.20 15.10.20	30	9	30	9	6	6	66	24	90
Integrated farming system	Management of different component of integrated farming system	1	1	ON	May	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	September	24	10	6	2	23	5	53	17	70
	Hybrid seed production of Rice	2	1	ON	December	24	10	6	2	23	5	53	17	70
Production of organic inputs	Compost production technologies	2	2	ON	19.07.22 06.03.23	16	3	7	1	10	3	33	7	40
	Preparation of Vermicompost	2	1	ON	08.07.2020	20	7	4	2	22	5	46	14	60
Planting material production	Planting material production of Horticultural crops	1	2	ON	24.09.20	5	15	0	2	2	6	7	23	30
Vermiculture	Vermicompost production methodologies	1	2	ON	21.03.23	8	2	3	1	9	2	20	5	25
Protected cultivation	Protected cultivation of vegetable crops	1	4	On	13.12.22 to 16.12.22	5	3	2	1	8	6	15	10	25
Production of Bio control agents	Production technology of *Trichoderma spp*	1	2	ON	28.09.22	8	2	0	0	8	2	16	4	20
Bee keeping	Scientific bee keeping techniques	1	7	on	20.06.22-26.06.22	12	1	0	0	10	2	22	3	25
Integrated nutrient management	Management of Soil health	1	1	ON	18.09.20 10.03.20	7	2	3	1	9	3	19	6	25
Nursery Management	Nursery Management of Horticulture crops	1	4	On	12.07.22 to 15.07.22	5	3	2	1	8	6	15	10	25

Thematic area	Title of Training	No.	Duration	Venue On/ Off	Tentative Date	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Value addition	Value addition in vegetables and flowers.	1	4	On	17.05.22 to 20.05.22	0	7	0	2	0	21	0	30	30

(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
Productivity enhancement in field crops	Important cultural practices of different field crops	3	2	ON	October, March	18	6	4	1	25	6	47	13	60
Integrated pest management	Integrated pest & disease management of crops	1	1	ON	31.10.22	9	1	1	0	8	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
Production and use of organic inputs	Different methods of composting	1	1	ON	08.12.22	9	1	1	0	12	2	22	3	25
	Bio pesticide production	2	1	ON	12.11.22 08.12.22	28	4	4	0	40	4	72	8	80
Seed Production	Seed certification procedure	2	1	ON	November December	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													
Integrated Farming	5	60	8	68	52	13	65	12	5	17	124	26	150
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	**19**	**200**	**50**	**0**	**45**	**19**	**0**	**225**	**31**	**0**	**470**	**100**	**570**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water 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
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	3	24	18	42	15	9	24	6	3	9	45	30	75
Off-season vegetables	2	16	12	28	10	6	16	4	2	6	30	20	50
Nursery raising	2	16	12	28	10	6	16	4	2	6	30	20	50
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)	1	1	8	6	14	5	3	8	2	1	3	15	10
Others, if any (Cultivation of Vegetable by Women)	2	16	12	28	10	6	16	4	2	6	30	20	50
TOTAL													
b) Fruits													
Training and Pruning	1	8	6	14	5	3	8	2	1	3	15	10	25
Layout and Management of Orchards													
Cultivation of Fruit	2	16	12	28	10	6	16	4	2	6	30	20	50
Management of young													

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
plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
TOTAL													
c) Ornamental Plants													
Nursery Management	1	8	6	14	5	3	8	2	1	3	15	10	25
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any	1	8	6	14	5	3	8	2	1	3	15	10	25
TOTAL													
d) Plantation crops													
Production and Management technology	1	8	6	14	5	3	8	2	1	3	15	10	25
Processing and value													

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
addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology	1	8	6	14	5	3	8	2	1	3	15	10	25
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology	1	8	6	14	5	3	8	2	1	3	15	10	25
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology	1	8	6	14	5	3	8	2	1	3	15	10	25
Post harvest technology and value addition													
Others, if any													
TOTAL	**19**	**79**	**48**	**127**	**33**	**16**	**49**	**192**	**111**	**303**	**304**	**174**	**480**
III. Soil													

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
Health and Fertility Management													
Soil fertility management	11	97	17	114	133	22	155	8	3	11	238	42	280
Soil and Water Conservation													
Integrated Nutrient Management	2	22	2	24	22	2	24	2	0	2	46	4	50
Production and use of organic inputs	4	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**	**79**	**48**	**127**	**33**	**16**	**49**	**192**	**111**	**303**	**304**	**174**	**480**
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)													

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
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													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													

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
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	12	97	17	114	132	11	143	29	9	38	258	37	295
Integrated Disease Management	7	54	12	66	77	7	84	20	2	25	151	21	172
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													

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
pesticides													
Others, if any	2	13	4	17	24	1	25	6	2	8	43	7	50
TOTAL	**25**	**273**	**23**	**296**	**62**	**18**	**80**	**204**	**35**	**239**	**539**	**76**	**615**
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													

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
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	1	12	0	12	7	0	7	1	0	1	20	0	20
Bio-fertilizer production													
Vermi-compost production	2	25	2	27	0	0	0	18	3	21	43	5	48
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	**22**	**264**	**15**	**279**	**53**	**19**	**72**	**166**	**31**	**197**	**483**	**65**	**548**
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics	1	14	8	22	14	4	18	0	0	0	28	12	40
Formation and Management of SHGs													

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
Mobilization of social capital	1	17	8	25	10	5	15	0	0	0	27	13	40
Entrepreneurial development of farmers/youths	2	21	3	24	10	6	16	0	0	0	31	09	40
WTO and IPR issues													
Others, if any													
TOTAL	**4**	**34**	**15**	**49**	**0**	**0**	**0**	**52**	**19**	**71**	**86**	**34**	**120**
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems	6	60	18	78	9	3	12	36	24	60	105	45	150
TOTAL	**6**	**60**	**18**	**78**	**9**	**3**	**12**	**36**	**24**	**60**	**105**	**45**	**150**
XII. Others (Pl. Specify)													
GRAND TOTAL	**117**	**1158**	**202**	**1360**	**218**	**81**	**299**	**1072**	**281**	**1353**	**2448**	**563**	**3013**

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	1	10	2	12	12	1	13	0	0	0	22	3	25
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	4	32	8	33	23	30	23	9	7	16	79	21	100
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	14	0	14	2	0	2	0	0	0	16	0	16
Commercial fruit production													
Production of bio control agents and bio pesticides	1	8	2	10	8	2	10	0	0	0	16	4	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	14	0	14	2	0	2	0	0	0	16	0	16
Training and pruning of orchards													
Value addition	1	14	0	14	2	0	2	0	0	0	16	0	16
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental													

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
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	**20**	**174**	**78**	**252**	**65**	**25**	**90**	**148**	**75**	**223**	**387**	**178**	**565**

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	3	25	6	31	18	6	24	4	1	5	47	13	60
Integrated Pest disease Management	1	8	1	9	9	1	10	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													
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													

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
Crop intensification													
Others if any (Seed production)	2	20	10	30	20	10	30	0	0	0	40	20	60
TOTAL	**11**	**106**	**26**	**132**	**14**	**3**	**17**	**129**	**27**	**156**	**249**	**56**	**305**

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.)			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 through Methyl euzinol trap	% fruit infestation	Methyl euzinol	1.12 lakh	1.22 lakh	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.)			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 through Methyl euzinol trap	% fruit infestation	Methyl euzinol	1.35 lakh	1.52 lakh	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 through Cuelure trap	% fruit infestation	Cuelure	1.05 lakh	1.17 lakh	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 : 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 lakh	2.37 lakh	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 5

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 6

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 7

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 8

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 9

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								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	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 10

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 Day	Application of nutrient	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 : 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 12

Crop : Mustard
Thrust Area : Judicious application of pesticide
Thematic Area : Integrated pest 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	2.0 ha	Spraying with bio-pesticide	Yield	Neem oil	33000	31000	13	2	0	0	4	1	17	3	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	Pest management of mustard	1	Farmers & farm women	1	OFF	5	2	5	0	5	3	15	5	30
Field visit	Field visit	1	Farmers & farm women	1	OFF	4	1	2	1	5	2	11	4	15
Field Day	Preparation of spray solution	1	Farmers & farm women	1	OFF	5	1	2	1	8	3	15	5	20

FLD 13

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	30	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 14

Crop : All
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	10 units	Composting techniques	Yield and % decrease in use of fertilizer	Novcom solution	600 per unit	-	40	10	0	0	30	10	70	20	90

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 15

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 16

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 17

Crop : All
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	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 18

Crop : Toamto
Thrust Area : Promotion of improved varieties in vegetable crops
Thematic Area : Horticulture
Season : Rabi
Farming Situation : Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
								SC		ST		Other		Total		
					Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T
1.	Tomato	2.0 ha	Improved production technology with variety 'Arka Samrat'	No. of fruits per plant and yield	Seedlings	2,000	--	10	0	5	0	15	0	30	0	30

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No. of Participants								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
1.	Training	2	Farmers	1 hr	1ON 1 OFF	15	0	10	0	35	0	60	0	60
2.	Field Day	1	Farmers	2 hr	OFF	5	0	5	0	10	0	20	0	20
3.	Field visit	1	Farmers	2 hr	OFF	5	0	5	0	10	0	20	0	20

FLD 19

Crop : Bitter gourd
Thrust Area : Promotion of improved varieties in vegetable crops
Thematic Area : Horticulture
Season : Summer
Farming Situation : Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
10.	Bitter gourd	1.0 ha	Improved production technology with variety 'Meghnad-2'	No. of fruits per plant and yield	Seed	12,000	--	5	0	5	0	10	0	20	0	20

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
1.	Training	2	Farmers	1 hr	1ON 1 OFF	10	0	5	0	25	0	40	0	60
2.	Field Day	1	Farmers	2 hr	OFF	5	0	5	0	10	0	20	0	20
3.	Field visit	1	Farmers	2 hr	OFF	5	0	5	0	10	0	20	0	20

FLD-20

Crop:	Vegetables (Solanaceous and cole crops)
Thrust Area:	Quality seedling/planting material
Thematic Area:	Nursery raising: Seedling raising in plug tray
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
	Vegetables (Solanaceous and cole crops)	10 unit of 10,000 capasity	Seedling raising in plug tray	No. of healthy seedlings	Plug tray	10000	--	5	10	-	5	10	40	15	55	70

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
1.	Training	2	Farmers	1 hr	1ON 1 OFF	5	10	-	5	10	40	15	55	70
2.	Field Day	1	Farmers	2 hr	OFF	1	4	-	3	02	10	03	17	20
3.	Field visit	1	Farmers	2 hr	OFF	1	4	-	3	02	10	03	17	20

FLD 21

Crop : Mango
Thrust Area : Promotion of improved production technology of fruit crops
Thematic Area : Horticulture
Season : Rabi
Farming Situation : Irrigated

Sl. No.	Crop & variety / Enterprises	Proposed Area (ha)/ Unit (No.)	Technology package for demonstration	Parameter (Data) in relation to technology demonstrated	Cost of Cultivation (Rs.)			No. of farmers / demonstration								
					Name of Inputs	Demo	Local	SC		ST		Other		Total		
								M	F	M	F	M	F	M	F	T
12.	Mango	1.0 ha	Improved production technology with use of Mango Special and Planofix	Fruit weight and yield	Mango Special and Planofix	15000	--	5	0	5	0	10	0	20	0	20

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
1.	Training	2	Farmers	1 hr	1ON 1 OFF	20	0	10	0	30	0	60	0	60
2.	Field Day	1	Farmers	2 hr	OFF	5	0	5	0	10	0	20	0	20
3.	Field visit	1	Farmers	2 hr	OFF	5	0	5	0	10	0	20	0	20

FLD-22

Crop:	Banana
Thrust Area:	Cultivation of good quality fruits
Thematic Area:	Value addition: Banana bunch cover (polypropelene)
Season:	Pre & Post Monsoon.
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**
	Banana	1 ha	Banana bunch cover (polypropelene) for quality finger	% of scar & length-breath ratio	Bunch cover	10000	--	2	-	-	-	5	0	7	-	7

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**
1.	Training	1	Farmers	1 hr	1 OFF	2	-	-	-	5	0	7	-	7
2.	Field Day	1	Farmers	2 hr	OFF	4	1	3	-	10	2	17	03	20
3.	Field visit	1	Farmers	2 hr	OFF	4	1	3	-	10	2	17	03	20

(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.)
Elephant Foot yam	*Bidhan Kusum*	April to November – December	0.33	Seed tuber	70	50,000.00	2,10,000.00	1,60,000.00
Sesame	*Sabitri*	March - June	0.4	Seed	3	8,000.00	15,000.00	7,000.00
Green gram	*Virat*	March - June	0.13	Seed	1.5	4000.00	6750.00	2750.00
Summer vegetables	Different crops	February to March	0.13	Planting materials	20,000 nos	10,000.00	25,000.00	15,000.00
Mango	*Himsagar, Amrapalli*	June - August	0.07	Planting materials	2000 nos	25,000.00	80,000.00	55,000.00
Aman Paddy	*IET 4786*	June – November	0.4	Seed	2	18,000.00	24,000.00	6,000.00
Kharif onion	*Agrifound Dark Red*	July - November	0.13	Planting materials	60,000 nos	8,000.00	19,000.00	11,000.00
Lentil	*Moitree*	November	0.13	Seed	1.2	4000.00	5,400.00	1400.00
Winter vegetables	Different crops	October - March	0.2	Planting materials	25,000 nos	11,000.00	35,000.00	24,000.00
Flower crops	Different crops	July - November	0.07	Planting materials	10,000 nos	5000.00	10,000.00	5,000.00

(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, 2022	13.3	100	Seed	480.0	--	--	--
Lentil	PL-4717	Nov,22-Mar-23	5.0	40	Seed	60.0	--	--	--
Blackgram	PU-31	Aug-Nov, 2022	5.0	40	Seed	50.0	--	--	--
Greengram	Virat	Feb-May, 2022	5.0	40	Seed	50.0	--	--	--
Sesame	Savitri	Feb-May, 2022	5.0	40	Seed	60.0	--	--	--

5. Extension Activities:

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	2	57	18	75	24	2	1	3	59	19	78
KisanMela	2	380	20	400	32	13	7	20	393	27	420
KisanGhosthi											
Exhibition	1	718	150	868	22				718	150	868
Film Show	1	42	6	48	14	4	3	7	46	9	55
Method Demonstrations	2	7	3	10	70	0	0	0	7	3	10
Farmers Seminar	5	356	156	512	62				356	156	512
Workshop											
Group meetings	8	145	28	173	32	14	2	16	159	30	189
Lectures delivered as resource persons	1	15	13	28	20	17	3	20	32	16	48
Advisory Services	4	75	3	78	34	16	3	19	91	6	97
Scientific visit to farmers field	21	172	29	201	68	3	2	5	175	31	206
Farmers visit to KVK											
Diagnostic visits	5	280	28	308	64	2	3	5	282	31	313
Exposure visits	1	29	7	36	18	2	0	2	31	7	38

Ex-trainees Sammelan	4	141	16	157	25	2	3	5	143	19	162
Soil health Camp	1	20	0	20	22	4	1	5	24	1	25
Animal Health Camp											
Agri mobile clinic											
Soil test campaigns	1	78	22	100	33	2	3	5	80	25	105
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (specify)	3	189	64	253	45	7	2	9	196	66	262
Sankalp Se Siddhi											
Swatchta Hi Sewa											
MahilaKisan Divas											
Any Other (Phone Call)	38	520	92	612	49	0	0	0	520	92	612
Total	**100**	**3224**	**655**	**3879**	**634**	**103**	**42**	**145**	**3312**	**688**	**4000**

6. Revolving Fund (in Rs.):

Opening balance of 2022 (As on 01.01.2022) (Un-audited)	Amount proposed to be invested during 2022	Expected Return
37.79	**4.50**	**5.00**

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

Project	Source	Amount to be received (Rs. in lakh)
Short term Research	ATMA	4.50
DAESI	Input Dealers through Dept. of Agriculture	16.00
Technology Week/ Kishan Mela	NABARD	NA

9. On-farm trials to be conducted*:

OFT-1

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	Production system	Paddy-Mustard-Sesame
6	Micro-farming situation	Medium/Low land
7	Technology for testing	Different spacing for transplanted pot culture seedling of mustard
8	Existing practice	Broadcasting
9	Objective	To find out the best planting distance for transplanted mustard
10	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)
11	Critical inputs	Seed, pot
12	Unit size	0.133 ha
13	No. of replication	7
14	Unit cost	Rs.1000/-
15	Total cost involved	Rs. 7000/-
16	Monitoring indicator	Yield (t/ha)
17	Source of Technology (ICAR/ AICRP/SAU/Other)	State Govt.

OFT-2

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	Production system	Jute-Paddy-Lentil/Mustard
6	Micro-farming situation	Medium land
7	Technology for testing	Different sowing methodologies to enhance the productivity of Jute
8	Existing practice	Broadcasting of jute seed
9	Objective	To evaluate the best sowing method towards increased the productivity of Jute
10	Treatments	**Farmers' practice:** Improper sowing method (Broadcasting) **Technology option 1:** Line sowing with tine **Technology option 2:** Line sowing with seed drill
11	Critical inputs	Jute seed drill
12	Unit size	0.133 ha
13	No. of replication	7
14	Unit cost	Rs.1000/-
15	Total cost involved	Rs. 7000/-
16	Monitoring indicator	Plant height, dry matter, stem girth, disease pest incident, yield
17	Source of Technology (ICAR/ AICRP/SAU/Other)	BCKV

OFT 3			
i.	**Season**	**:**	Year the round
ii.	**Title of the OFT**	**:**	Weather forecast based climate resilient vegetable production with mixed/staggered planting.
iii.	**Thematic Area**	**:**	Crop Diversification
iv.	**Problem diagnosed**	**:**	Frequent occurrence of off season and heavy rainfall causing huge loss to vegetable cultivation and subsequent low availability of harvestable produce.
v.	**Important Cause**	**:**	Lack of information about weather based forecast and non-adaptation of climate resilient cultivation methods.
vi.	**Production system**	**:**	Vegetable based (solanaceous/ summer cole crops-cole crops in early kharif/kharif- cole crops in rabi)
vii	**Micro farming system**	**:**	Irrigated medium land
viii	**Technology for Testing**	**:**	Climate resilient cultivation methods
ix.	**Existing Practice**	**:**	Cultivation of F1 hybrids with single day transplanting and non-adaptation of any climate resilient methods.
x.	**Hypothesis**	**:**	Mixed/staggered planting of F1 hybrids with climate resilient measures may be helpful for mitigation of weather hazards and subsequent yield loss.
xi.	**Objective(s)**	**:**	To identify most suitable climate resilient vegetable production methods with mixed/staggered planting.
xii	**Treatments**	**:**	**Farmers Practice (FP):** Cultivation of F1 hybrids with single day transplanting. **Technology option-I (TO-I):** Cultivation of F1 hybrids with mixed/staggered planting with double row planting. **Technology option-II (TO-II):** Cultivation of F1 hybrids with mixed/staggered planting and formation of micro water-shed based water use/drainage group for management of climate hazards ** . **Technology option-III (TO-III):** Cultivation of F1 hybrids with mixed/staggered planting and in-situ 3-4 ft depth pond excavation (5% model) to accommodate drainage water during heavy rainy days.
xiii	**Critical Inputs**	**:**	Vegetable seeds
xiv	**Unit Size**	**:**	1333 sq.m.
xv.	**No of Replications**	**:**	7
xvi	**Unit Cost**	**:**	5000
xvi	**Total Cost**	**:**	35000
xvii	**Monitoring Indicator**	**:**	Weather Data, Yield Parameters, BC ratio
xix	**Source of Technology**	**:**	BCKV
** The water user group will closely co-ordinate with concerned scientist for weather updates (SMS/Whattapp) and co-share the loss of low lying field.			

OFT 4			
i.	**Season**	**:**	Year the round
ii.	**Title of the OFT**	**:**	Introduction of low cost poly walking tunnel for year round off season cultivation.
iii.	**Thematic Area**	**:**	Off season / high tech cultivation
iv.	**Problem diagnosed**	**:**	Seasonal glut is causing very low return and results the venture as huge loss.
v.	**Important Cause**	**:**	Cultivation of same type crop at the same time by the majority of farmers.
vi.	**Production system**	**:**	Vegetable based (Cucurbits-solanaceous-cole crops)
vii	**Micro farming system**	**:**	Irrigated medium land
viii	**Technology for Testing**	**:**	Off season / high tech cultivation
ix.	**Existing Practice**	**:**	Cultivation of season specific vegetable
x.	**Hypothesis**	**:**	Poly walking tunnel may be helpful for off season vegetable cultivation.
xi.	**Objective(s)**	**:**	To identify most suitable off season crop sequence under poly walking tunnel.
xii	**Treatments**	**:**	**Farmers Practice (FP):** Rabi: Cole crops(cauliflower)- Summer/kharif: curcurbits (ridge gourd/ pointed gourd) **Technology option-I (TO-I):** Rabi: Ridge gourd- Summer: cauliflower/cabbage- Kharif: Leafy vegetable **Technology option-III (TO-III):** Rabi: Pointed gourd- Summer: cauliflower/cabbage- Kharif: Leafy vegetable
xiii	**Critical Inputs**	**:**	Vegetable seeds
xiv	**Unit Size**	**:**	200 sq.m.
xv	**No of Replications**	**:**	7
xvi	**Unit Cost**	**:**	5000
xvi	**Total Cost**	**:**	35000
xvii	**Monitoring Indicator**	**:**	Yield, BC ratio
xix	**Source of Technology**	**:**	BCKV

OFT-5

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-6

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 inoculant
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-7

1	Season	*kharif* .
2	Title of OFT	**Assessment of efficiency of integrated approach against collar rot of chilli**
3	Thrmatic area	**Integrated disease management**
4	Problem diagnosed	Heavy loss in chilli due to collar rot.
5	Important cause	Chilli is one of the most important crops and this crop is cultivated mainly in pri kharif and rabi season. But it is badly affected by collar rot disease (mainly in rainy seasin) caused by *Sclerotium rolfsii*. It may cause up to 16-80 % loss of the crop in kharif season.
6	Production system	Vegetable based production system.
7	Micro-farming situation	Irrigated crop
8	Technology for testing	IPM: seed treatment and application of bio pesticide
9	Existing practice	Indiscriminate use of fungicide after appearance of collar rot disease.
10	Hypothesis	Seed treatment removes seed born diseases and helps to grow healthy seedlings and some bio pesticides controles soil boarn diseases
11	Objective	To increase crop productivity with the disease control.
12	Treatments	**Farmers' practice:** Indiscriminate use of fungicide like carbendazim, mancozeb, propiconazole etc. **Technology option 1:** Deep ploughing during land preparation**,**Seed treatment with Thiram 75% @ 2.5 g/ Kg of seed, pit filling with organic manute treated with *Trichoderma viride* and need based application of Chlirothalonil 2 g+ Thiophenate methyl 1 g/ l of water **Technology option 2:** Deep ploughing during land preparation , Seed treatment with Thiram 75% @ 2.5 g/ Kg of seed, pit filling with organic manute treated with *Trichoderma harzianum* and need based application of Chlirothalonil 2 g+ Thiophenate methyl 1 g/ l of water
13	Critical inputs	*T. viride, T. harzianum*, 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 (through out the crop season), total production, total income, B:C
19	Source of Technology (ICAR/ AICRP/ SAU/ Other	BCKV.

OFT-8

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-9

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 quality enhancement
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. 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.
5	Production system	Vegetable based production system
6	Micro-farming situation	Irrigated high/medium land.
7	Technology for testing	Two foliar spray of sea weed extract @ 2ml / *l* of water at 15 DAT and at flower initiation stage.
8	Existing practice	Farmers saved their own seed without any precautionary measure.
9	Objective	Quality seed production
10	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. **<u>For Technology option 1 and Technology option 2:</u>** Seed treatment- Carbendazim @ 2g per kg of seed. 450 *l of* water is required for spraying one hectare of land. In double row Maize border the Maize 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.
11	Critical inputs	Seed, 25 micron poly mulch, 40 mesh sieve net, Sea weed extract.
12	Unit size	0.133 ha
13	No. of replication	7
14	Unit cost	Rs.3,100/-
15	Total cost involved	Rs.21,700.00
16	Monitoring indicator	Plant height, Fruit/plant, Fruit weight, Seed/fruit, 1000 seed weight, Seed yield, , Seed germination %, Seed vigour, Cost of cultivation, Gross return, Net return, BC ratio.
17	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-10

1	Season	*Rabi*
2	Title of OFT	**Performance evaluation of foliar spray of Nutrients at flower initiation stage on Greengram**
3	Thematic area	Seed quality enhancement
4	Problem diagnosed	Low productivity of local cultivars during *Summer* season under irrigated farming situation of high humid New Alluvial Zone, Nadia. Low production potentiality of Greengram is due to neglected cultivation.
5	Production system	Greengram-Vegetables
6	Micro-farming situation	Irrigated high/medium land.
7	Technology for testing	Foliar spray of water soluble fertilizers 18:18:18 @ 2g/ *l* of water at flower initiation stage (25-30 DAS) + Micronutrients @ 2g/ *l* of water at 35-40 DAS Foliar spray of water soluble fertilizers 12:61:0 and 13:0:45 both @ 1g/ *l* of water at flower initiation stage (total 2g/*l*) (25-30 DAS) + Micronutrients @ 2g/ *l* of water at 35-40 DAS
8	Existing practice	Local cultivars cultivated during *Summer* season without any nutrients.
9	Objective	To identify the best possible Management practice for *Summer* season under irrigated farming situation of high humid New Alluvial Zone, Nadia.
10	Treatments	**Farmer Practice:** No foliar Spray of Nutrients **Technology option1:** Foliar spray of water soluble fertilizers 18:18:18 @ 2g/ *l* of water at flower initiation stage (25-30 DAS) + Micronutrients @ 2g/ *l* of water at 35-40 DAS **Technology option 2:** Foliar spray of water soluble fertilizers 12:61:0 and 13:0:45 both @ 1g/ *l* of water at flower initiation stage (total 2g/*l*) (25-30 DAS) + Micronutrients @ 2g/ *l* of water at 35-40 DAS **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
11	Critical inputs	water soluble fertilizers 18:18:18 , 12:61:0 and 13:0:45, *Rhizobium*, PSB, Micronutrients
12	Unit size	0.133 ha
13	No. of replication	7
14	Unit cost	Rs.600/-
15	Total cost involved	Rs.4,200.00
16	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 %.
17	Source of Technology (ICAR/ ICRP/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
2.	ATMA funded Short term Research	4.50

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 2021	Proposed date during 2022
06.03.21	1st week of March

13. Soil and water testing:

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	200	100	7	7	0	84	2	191	9	200	20	200
Water Samples	20	12	0	0	0	8	0	20	0	20	5	-
Other (Please specify)	-	-	-	-	-	-	-	-	-	-	-	-
Total	220	162	7	7	0	92	2	261	9	270	25	250

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

Heads	Expenditure (last year) (Rs.) up to 31.12.2021	Expected fund requirement (Rs.) for F.Y. 2022
Pay & allowances	142.69346	230.00
TA	-	1.20
HRD	-	0.30
Contingency	3.91260	27.00
Non-recurring	-	8.10
Total	146.60606	266.60

* 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 in G- 9 variety	50 micron white non-oven polypropylene cover of 80 cm breath and 120 cm length , both side open cover for G-9 banana	More than 127 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