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	For the Year 2023
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	Pusa, Samastipur-II, 848 209

KVK, Samastipur –II -2023

REVISED PROFORMA FOR ACTION PLAN 2023

1. Name of the KVK: Krishi Vigyan Kendra, LADA, Samastipur-II

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KrishiVigyan Kendra, Lada, Samastipur-II (Bihar)	06287797166	-	head.kvk.lada@rpcau.ac.in

2.Name of host organization :

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3.Training programme to be organized (Jan. 2023 to Dec. 2023)

(a) Farmers and farm women (ON CAMPUS)

				No. o	f parti	cipants	
Discipline	Thematic Area	Title	Duration	SC	ST	Oth.	Tota l
		I Quarter (Jan. 2023 to M	farch 2023)				
	Lay out and management of orchard	Management and Rejuvenation of old orchards	2	10	-	40	50
Horticulture	Production and Mgt. of Tuber crops	Production and management of Turmeric	1	05	-	20	25
	Repair and	Operation, care, maintenance of multi-crop thresher	2	10	-	40	50
AgrilEngg	maintenance of farm machinery and implements	Repair and maintenance of Zero-till machine	1	05	-	20	25
Vet. & Ani.	Dairy management	Management of dairy animals for better production	2	10	-	40	50
Science	Disease management	Management of mastitis in dairy animals and their prevention and control	1	05	-	20	25
Home Science	Kitchen gardening	Development of kitchen garden beside house.	2	10	-	40	50
	Minimum cost diet	To prepare nutritious diet by using local food.	1	05	-	Oth. 40 20 40 20 40 20 40 20	25

	Integrated	Seed Treatment of Paddy :	2	10	-	40	50
	Disease	Method & Benefits					
Plant	Management						
Protection	Bio control of	Use of trichoderma in seed	1	05	-	20	25
	pest and diseases	s treatment					
Сгор	Weed	Weed management in rabi	1	05	-	20	25
Production	Management	crops					
	Resource	Conservation agriculture	2	10	-	40	50
	Conservation						
	Technologies						
		Total	18	90		360	450
		II Quarter (April 2023 to			1		
	Ornamental plants	Propagation techniques of	2	10	-	40	50
		ornamental plants					
Horticulture	Protective	Protective Cultivation of	1	05	-	20	25
	Cultivation	capsicum, tomato and					
	(Greenhouses, shade, Net etc.)	cucumber					
	Soil & water	Importance of soil and water	2	10	_	40	50
	management	conservation					
Agril Engg	Irrigation water	Installation, and maintenance	1	05	-	20	25
	management	of micro irrigation system					
	Disease	Commercial goat farming and	2	10	-	40	50
Vet. & Ani.	management	entrepreneurship development					
Science	Feed and fodder	Backyard Poultry	1	05	-	20	25
	management	entrepreneurship development					
	Designing and	Preparation of nutritious diet	2	10	-	40	50
	development of high nutrients	for pregnant women					
Home	deficiency diet						
Science	Minimization of	Methods of processing to save	1	05	-	20	25
	nutrients loss of	nutrient loss					
	processing		2	10		40	50
Plant Protection	Mushroom Production	Mushroom production	2	10	-	40	50
11010011011	Integrated Pest	Pest Management of Paddy :	1	05		20	25
	Management	Method & Benefits	1	05		20	23
Crop	Integrated	Principles of integrated	2	10	_	40	50
Production	Farming	farming	-				20
	Importance of	<i>Kharif</i> millet cultivation	1	05	_	20	25
	millets		Ŧ			20	20
	milleto	Total	10	00		260	450
		III Quarter (July 2023 t	18 o Sent, 2023	90	<u> </u>	360	450
	Spices	Scientific cultivation of seed	2 2 2 2 2 2	10	_	40	50
Horticulture	1	spices	-	10			50

	Vegetable	Scientific cultivation of	1	05	_	20	25
	vegetable		1	05	-	20	23
		Solanaceous crops		10		40	50
	Production of	Types of hand hoe and its utility	2	10	-	40	50
	small tools and						
AgrilEngg	implements						
	Irrigation	Irrigation methods for vegetable	1	05	-	20	25
	management	cultivation					
	Feed and fodder	Dairy Farmingconservation	2	10	-	40	50
Vet. & Ani.	management	methods of green fodder					
Science	Dairy	Causes of infertility and their	1	05	-	20	25
	management	management					
	Storage lose	Storage techniques of different	2	10	-	40	50
Home	minimization	foods.					
Science	lose techniques						
Belence	Women child	Preparation of weaning food using	1	05	-	20	25
	care	locally available food material					
Plant	Integrated Pest	Integrated pest management of	2	10	-	40	50
Protection	Management	Rabi pulse crops	1	0.5		20	25
	Integrated	Integrated Disease Management	1	05	-	20	25
	Disease	in potato					
Course	Management	Same of more dimensification in	2	10		40	50
Crop Production	Crop	Scope of crop diversification in <i>kharif</i> season	2	10	-	40	50
Froduction	Diversification	Ū.	1	0.5		20	25
	Importance of	Importance of cultivation of	1	05	-	20	25
	millets	millets					
		Total	18	90		360	450
		IVquarter (Oct. 2023 to	Dec. 2023)				
Horticulture	Cultivation of	Propagation of fruit crops	2	10	-	40	50
	fruits						
	Fruits	Scientific cultivation of Fruits	1	05	-	20	25
AgrilEngg	Repair and	Care and maintenance of	2	10	-	40	50
888	maintenance of	irrigation pumps					
	farm machinery						
	and implements						
	Feed and fodder	Computation of feed by locally	1	05	-	20	25
	management	available in gradients for dairy					
Vet. & Ani.		animals					
Science	Feed and fodder	Preparation of balance	2	10	-	40	50
	management	concentrated mixture from locally					
		available feed ingredients					
	Dairy	Mastitis management among	1	05	-	20	25
	management	dairy animals.		10			50
Home	Women child	Low cost food preparation for	2	10	-	40	50
Science	care	children	1	05			25
	Capacity	Cutting stitching and value	1	05	-	20	25
D1 4	building Discontrol of	addition.	2	10		40	50
Plant Protection	Bio control of	Use of Bio agents to manage pest of Pulses	2	10	-	40	50
Frotection	pest and diseases						
	uiseases	l					

	Integrated Pest	Integrated pest management of	1	05	-	20	25
	Management	Fruit crops					
Crop	Soil fertility	Improvement of soil properties	2	10	-	40	50
Production	management	through different approaches					
	Cropping	Importance of inclusion of	1	05	-	20	25
	Systems	legumes in existing cropping					
	5	system					
		Total	18	90		360	450

(b) Farmers and farm women (OFF CAMPUS)

Discipline	Thematic Area	Title	Duration	No	. of pa	rticipan	ts
r				SC	ST	Oth.	Total
		I Quarter (Jan 2023	to March 20	23)			
Horticultu re	Cultivation of fruits	Management of fruit drop in mango	2	10	-	40	50
	Cultivation of fruits	Management of fruit cracking in Litchi	1	05	-	20	25
AgrilEngg	Farm mechanization	Harvesting equipment for wheat	2	10	-	40	50
	Post harvest technology	Safe storage techniques of grains	1	05	-	20	25
Vet. & Ani.	Poultry management	Backyard poultry farming for income generation	2	10	-	40	50
Science	IFS	Animal based integrated farming system	1	05	-	20	25
Home Science	Capacity building	Upkeeping of woolen garment	2	10	-	40	50
	Capacity building	Weaving of woolen garment	1	05	-	20	25
Plant Protection	Bio control of pest and diseases	Use of tricoderma in seed treatment	2	10	-	40	50
	Integrated Pest Management	IPM in green gram	1	05	-	20	25
Crop Production	Organic inputs production	Production techniques of vermicompost and vermi- culture	2	10	-	40	50
	Soil testing	Soil testing and its importance	1	05	-	20	25
		Total	18	90		360	450
	•	II Quarter (April 202	3 to June 20	23)			
Horticultu re	Nursery raising	Nursery raising of Cole vegetable crop	2	10	-	40	50
	Ornamental Plants	Scientific cultivation of gerbera	1	05	-	20	25
AgrilEngg	Sowing technique	Procedure of DSR cultivation by seed drill	2	10	-	40	50

	Installation, and	Micro-irrigation :	1	05	-	20	25
	maintenance of	Installation and operation	1	05		20	23
	micro irrigation						
	system						
Vet. &	Goat farming	Feeding management in	2	10	-	40	50
Ani.		goat					
Science	Disease management	Importance of vaccination	1	05	-	20	25
		in animals and					
		vaccination programme for cattle					
Home	Capacity building	Upkeeping of silk	2	10		40	50
Science	Capacity building	garment	2	10	-	40	50
Science	Drudgery reduction	Making smoklesschulha	1	05	-	20	25
Plant	Integrated Disease	IDM in paddy	2	10	-	40	50
Protection	Management	12101 in paday	-	10		10	50
	Bio control of pest	Use of Bio agents to	1	05	_	20	25
	and diseases	manage pest of pigeon	1	05		20	23
		pea					
Crop	Integrated Farming	Principles of integrated	2	10	-	40	50
Production		farming					
	Importance of	Kharif millet cultivation	1	05	-	20	25
	millets						
		Total	18	90		360	450
		III Quarter (July 2023 to	Sept. 2023)		11	
Horticultu	Ornamental plants	Management of potted	2	10	-	40	50
re		ornamental plants					
	Ornamental plants	Scientific cultivation of	1	05	-	20	25
	1	gladiolus					
AgrilEngg	Sowing technique	Advantages of row sowing	2	10	-	40	50
8 88		for rabi crops					
	Repair and	Operation, care and	1	05	-	20	25
	maintenance of farm	maintenance of zero-till					
	machinery and	seed drill					
Vot 9-	implements Cost farming	Caro and management of	2	10		40	50
Vet. & Ani.	Goat farming	Care and management of goat and their kids in winter		10	-	40	50
Science	Green fodder	Azolla culture	1	05	-	20	25
Science	production		1	05		20	25
Home	Storage loss	Making storage structure by	2	10	-	40	50
Science	minimization	local materials					
Plant	Integrated Disease	Integrated Disease	1	05	-	20	25
Protection	Management	Management in potato					
	Bio control of pest	Use of Bio agents to	2	10	-	40	50
	and diseases	manage pest of vegetable					
Сгор	Fodder production	Fodder production	1	05	-	20	25
Production	_	technology					
	Soil management	Soil fertility management	2	10	-	40	50
	<u> </u>	Total	18	90		360	450
	l	1.000	10	90	I	300	450

		IVquarter (Oct. 2023	to Dec. 20	023)			
Horticultu re	Cultivation of fruits	Management of flower drop in litchi	2	10	-	40	50
	Yield Increment	Use of growth hormone to increase the yield in vegetable	1	05	-	20	25
AgrilEngg	Mechanization of orchard	Mechanization of fruit orchard	2	10	-	40	50
	Repair and maintenance of farm machinery and implements	Care and maintenance of farm equipment	1	05	-	20	25
Vet. & Ani.	Poultry farming	Broiler management during winter season	2	10	-	40	50
Science	Poultry farming	Backyard poultry/alternative species faming	1	05	-	20	25
Home Science	Value addition	Preservation of seasonal fruits and vegetable.	2	10	-	40	50
	Capacity building	Upkeeping of house hold	1	05	-	20	25
Plant Protection	Integrated disease management on vegetable crops	Method to control pest and diseases using integrated approaches	2	10	-	40	50
	Integrated disease management on vegetable crops	Method to control pest and diseases using integrated approaches	1	05	-	20	25
Crop Production	Conservation agriculture	Importance of conservation agriculture in context of sustainable agriculture	2	10	-	40	50
	Importance of millets	Rabi millet cultivation	1	05	-	20	25
		Total	18	90		360	450

(c) Rural youths

Discipline	Thematic Area*	Title	Duration	Ν	o. of p	articipa	ints
Discipline	Thematic Area	Inte	Duration	SC	ST	Oth.	Total
	Ι	Quarter (Jan. 2023 to Marc	h 2023)				
Horticultu	Nursery management	Gardening and nursery	4	05	-	20	25
re	of horticulture crops	management of ornamentals					
AgrilEngg	Custom hiring	Custom hiring of farm mechanization	4	05	-	20	25
Vet. & Ani. Science	Goat farming	Scientific goat rearing for self employment	4	05	-	20	25
Home Science	Rural craft	Fabric Painting	4	05	-	20	25
Plant	IPM & IDM	Management of pest and	4	05	-	20	25

Protection		diseases in farmers field								
Crop	Integrated	Integrated farming	4	05	-	20	25			
Production	farming	5 5								
	B	Total	24	25	-	100	125			
		II Quarter (April 2023				100	125			
	N					20	25			
Horticultu re	Nursery management of horticulture crops	Nursery raising techniques vegetables and fruit	4	05	-	20	25			
AgrilEngg	Irrigation technique	Solar irrigation pump	4	05	-	20	25			
	<u> </u>	system		0.7		•	~ ~ ~			
Vet. &	Poultry	How to establish a poultry	4	05	-	20	25			
Ani. Science		farm for employment generation								
Home	Rural craft	Preparation of soft toys and	4	05	_	20	25			
Science	Kulai clait	value addition	4	05	-	20	23			
Plant	Mushroom	Techniques of all type of	4	05	-	20	25			
Protection	Production	mushroom production								
Crop	Integrated nutrient	Integrated nutrient	4	05	-	20	25			
Production	management	management								
		Total :	24	25	-	100	125			
	III Quarter (July 2023 to Sept. 2023)									
Horticulture	Commercial fruit	Commercial fruit	4	05	-	20	25			
	production	production								
Agril. Engg	Small scale	Fabrication hand tools	4	05	-	20	25			
	entrepreneurship	including hoe								
Vet. & Ani.	IFS	Different models of IFS	4	05	-	20	25			
Science		based on animal husbandry	4	07		20	25			
Home Science	Capacity building	Mithila painting	4	05	-	20	25			
Plant	Bee keeping	Management of bee colony	4	05	-	20	25			
Protection	Dee weeping	in different seasons	·	00		20	20			
Сгор	Production of	Vermicomposting	4	05	-	20	25			
Production	organic inputs	I I I G				_	-			
		Total	24	25	-	100	125			
		IVquarter (Oct. 202	3 to Dec. 20		l		-			
Horticulture	Training and	Training and pruning of	4	05	-	20	25			
	pruning of orchard	orchard								
Agril. Engg	Custom hiring	Custom hiring of agro	4	05	-	20	25			
0 00	<u> </u>	based sprayer in orchards								
Vet. & Ani.	Dairy farming	Dairy management of	4	05	-	20	25			
Science		animals	4	07		20				
Home Science	Capacity building	Cutting & stitching of lady	4	05	-	20	25			
Science		garments								
Plant	Mushroom	Techniques of all type of	4	05	-	20	25			
Protection	Production	mushroom production	-							
Сгор	Soil testing	Soil sampling, testing and	4	05	-	20	25			
Production		soil health management								

Tota	1 24	25	-	100	125
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(d) Extension Functionaries

D:		714	D (1	N	o. of pa	rticipan	ts
Discipline	Thematic Area*	Title	Duration	SC	ST	Oth.	Total
	I Q	uarter (Jan. 2023 to Marc	ch 2023)				
Horticulture	Protected cultivation	Protected cultivation of	1	05	-	20	25
	technology	horticultural crops					
AgrilEngg	Post harvest technology	Advances in harvesting equipments	1	05	-	20	25
Vet. & Ani. Science	Feed and Fodder management	Scientific fodder production during kharif season	1	05	-	20	25
Home Science	Women and child care	How to prepare low cost weaning food	1	05	-	20	25
Plant Protection	Integrated Pest Management	New molecules for pest management in Kharif crops	1	05	-	20	25
Crop Production	Integrated nutrient management	Integrated nutrient management	1	05	-	20	25
		Total	6	30		120	150
		II Quarter (April 2	023 to June 2	023)			
Horticulture	Value addition	Value addition of ornamental crops	1	05	-	20	25
AgrilEngg	Sowing mechanization	Promotion of DSR using seed drill and hand hoe	1	05	-	20	25
Vet. & Ani. Science	Dairy management	Scientific dairy farming	1	05	-	20	25
Home Science	Women and child care	Care of low weight baby	1	05	-	20	25
Plant Protection	Integrated Pest Management in Paddy	New molecules for pest management in Paddy	1	05	-	20	25
Crop Production	Weed management	Integrated weed management	1	05	-	20	25
		Total	6	30		120	150
		III Quarter (July 20	23 to Sept. 2		- <u> </u>		-
Horticulture	Landscaping	Landscaping of public places	1	05	-	20	25
Agril. Engg	Farm mechanization	Types of hand hoe and its utility	1	05	-	20	25
Vet. & Ani.	Management in	Vaccination schedule	1	05	-	20	25

Science	farm animal	and procedure					
Home Science	Women and child care	Nutrition for child care	1	05	-	20	25
Plant Protection	Integrated Pest Management	New molecules for pest management in Kharif crops	1	05	-	20	25
Crop Production	Soil fertility management	Technologies for improving soil health	1	05	-	20	25
		Total	6	30		120	150
		IVquarter (Oct. 2	2023 to Dec.	2023)	L		
Horticulture	Flower production	Commercial production of flower crops	1	05	-	20	25
AgrilEngg	Farm mechanization	Ploughs and ploughing methods for summer ploughing	1	05	-	20	25
Vet. & Ani. Science	Low cost and nutrient efficient diet designing	Food for old age people.	1	05	-	20	25
Home Science	Women and child care	How to prepare low cost weaning food	1	05	-	20	25
Plant Protection	Integrated Pest Management	New molecules for pest management in Summer crops	1	05	-	20	25
Crop Production	Production of organic inputs	Vermicomposting	1	05	-	20	25
		Total	6	30		120	150

(e) Vocational

			Duratio		No. of	participai	nts
Discipline	Thematic Area*	Title	n	SC	ST	Other s	Total
Horticulture	Ornamental crops	Commercial cultivation of loose flowers (rose, marigold, tuberose)	5	05	-	20	25
Agril. Engg	Farm mechanization	Farm machinery operation & maintenance	5	05	-	20	25
Vet. & Ani. Science	Dairy management	Feeding of dairy animals during pregnancy	5	05	-	20	25
Home Science	Income generation	Bangle making from lah	5	05	-	20	25
Plant Protection	IPM	Integrated pest and disease management	5	05	-	20	25
Crop Production	Integrated nutrient management	Integrated nutrient management	5	05	-	20	25

Total 20 20 120 120					
10tal 30 30 120 150	Total	30	30	120	150

Frontline demonstration to be conducted

		Propose		Parameter	Cost of Cu	ltivation (Rs	.)	No. of	farmers	/ demo	nstratio	1				
SI.	Crop &	d Area	Technology	(Data) in		,	Í	SC		ST		Other	•	Total		
No.	variety / Enterprises	(ha)/ Unit (No.)	package for demonstration	relation to technology demonstrated	Name of Inputs	Demo	Loc al	М	F	М	F	М	F	М	F	Т
1	Fruit fly trap in Mango Orchard	4.0	Fruit fly Trap	Yield,B:C ratio	Fruit fly Trap	15000		4	1	-	-	15	5	19	6	25
2	Demonstratio n of Pheromone trap in brinjal field against fruit and shoot borer	4.0	Pheromone trap	Yield,B:C ratio	Pheromo ne Trap	20000		4	1	-	-	15	05	19	6	25
3	Poultry	500 Nos	Poultry backyard	Mortality, B;C ratio	Vanraja chicks & pre starter	25000		05	05	-	-	10	05	15	10	25
4	Goatery	50 Nos	Mineral supplement in Goats	Body Growth	Mineral Mixture formulate d for goats	18000		5	2			15	3	20	5	25
5	Bhima Super (Onion variety)	1.0	Varietal	Yield, B:C ratio	Seed	10000		03	02	-	-	10	05	13	07	20
6	Kashi Lalima(Okra)	1.0	Varietal	Yield, B:C ratio	Seed	10000		02	01	-	-	15	12	17	13	30
7	Improved CIAE sickle for manual harvesting of crops	1.0	Improved CIAE sickle for manual harvesting of crops	Yield, B:C ratio	Machine demo	10000		03	02	-	-	15	05	18	07	25
8	Grubber for weeding operation	1.0	Grubber for weeding operation	Yield, B:C ratio	Machine demo	10000		03	02	-	-	15	05	18	07	25
9	Nutrigarden	6.0	Bag Method	Yield, B:C ratio	Bag method	10000		03	02	-	-	15	05	08	07	25

10	Mushroom production	25	Oyster Mushroom production	Yield, ratio	B:C	Mushroo m bag	15000	03	02	-	-	15	05	18	07	25
11	Biofortified wheat (Rajendra gehu 2	2.5	Varietal evaluation	Yield, ratio	B:C	Seed	20000	03	02	-	-	15	05	18	07	25
12	Barley(DWR B-137)	2.5	Varietal evaluation	Yield, ratio	B:C		20000	05	-	-	10	05	15	10	25	05
						Total :									10	28
							183000	43	22		10	160	75	193	7	0

Extension and Training activities under FLD:

	Title of				Venue	No. of Participants								
Activity	Activity	No.	Clientele	Duration	On/Off	S	С	5	ST	Ot	her	To	tal	
	incurrey					Μ	F	Μ	F	Μ	F	Μ	F	Т
Training	-	12	Farmers farm women	01	Off	60	60			180	180	240	240	480
Field day	-	112	Farmers farm women	01	Off	120	120			300	300	420	420	840

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

4. a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the		Period			Deta	uls of Production	ı	
Crop / Enterprise	Variety / Type		Area (ha.)	Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy			3.0	FS	120.0	-	-	-
Paddy			5.0	CS	200.0	-	-	-
		From 01.01.2022	0		0	-	-	-
		to 31.12.2022	0		0	-	-	-
Wheat			5	FS	150.0	-	-	-
			0	FS	0	-	-	-

Lentil		3	CS	24	-	-	-
	Total	16		494.0			

SI No.	Planting material target	
51 110.	Сгор	No.
1	Paddy	
2	Wheat	400q
3	Lentil	
4	Vegetable seedling	25000
	Total	

b) Village Seed Production Programme: As per university target NA

Name of	Variety /	Period		No. of	Details of Production							
the Crop / Enterprise	Туре	From to	(ha.)	farmers	Type of Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)			
-	-	-	-	-	-	-	-	-	-			
-	-	-	-	-	-	-	-	_	-			

5. Extension Activities

	No. of			Farmers			Extension Officials			Total		
Sl. No.	Activities/ Sub- activities	activities proposed	Μ	F	Т	SC/ST (% of total)	Male	Female	Total	Male	Female	Total
1.	Field Day	12	310	100	410	43	15	05	20	325	105	430
2.	KisanMela	02	500	200	700	76	50	10	70	550	210	760
3.	KisanGhosthi	10	310	100	410	43	15	05	20	325	105	430
4.	Exhibition	02	15	05	20	2	02	0	02	17	05	22
5.	Film Show	10	15	05	20	2	02	0	02	17	05	22
6.	Method	05	15	05	20	2	02	0	02	17	05	22

	Demonstrations											
7.	Farmers Seminar	02	50	10	60	7	10	05	15	60	15	75
8.	Workshop	01	50	10	60	7	10	05	15	60	15	75
9.	Group meetings	02	15	05	20	2	02	0	02	17	05	22
10.	Lectures delivered as resource persons	40	352	154	506	52	12	8	20	364	162	526
11.	Advisory Services	315	150	30	180	21	20	10	30	170	40	210
12.	Scientific visit to farmers field	430	546	217	763	80	28	15	43	574	232	806
13.	Farmers visit to KVK	1050	998	665	1663	170	35	14	49	1033	679	1712
14.	Diagnostic visits	20	354	98	452	49	32	15	47	386	113	499
15.	Exposure visits	02	50	10	60	7	10	05	15	60	15	75
16.	Ex-trainees Sammelan	02	50	10	60	7	10	05	15	60	15	75
17.	Soil health Camp	05	50	10	60	7	10	05	15	60	15	75
18.	Animal Health Camp	02	50	10	60	7	10	05	15	60	15	75
19.	Agri mobile clinic											
20.	Soil test campaigns	15	310	100	410	43	15	05	20	325	105	430
21.	Farm Science Club Conveners meet	-	-	-	-	-	-	-	-	-	-	-
22.	Self Help Group Conveners meetings	-	-	-	-	-	-	-	-	-	-	-
23.	MahilaMandals Conveners meetings	02	50	10	60	7	10	05	15	60	15	75
24.	Celebration of important days (specify)	15	310	100	410	43	15	05	20	325	105	430
25.	Swatchta Hi Sewa	01	310	100	410	43	15	05	20	325	105	430
26.	MahilaKisanDiwas	01	50	10	60	7	10	05	15	60	15	75
	Total	1946	4910	1964	6874	727	340	137	487	5250	2101	7351

6. Revolving Fund (in Rs.)

Opening balance of 2022-2023	Amount proposed to be invested during 2023	Expected Return
763171	250000.00	300000.00

7. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
-	-	-
-	-	-

OFT -1 (Plant Protection)
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1		Assessment of bio-intensive management practices for
-	Title of On Farm Trial	
		major pests in Tomato
2	Problem Diagnose	use of chemical pesticides
3		Farmer practice: use of chemical pesticides
		TO1
		• Application of Bio consortia of IIHR (Soil
		application)
		• Seed treatment by P. fluorescens@10 g/kg
		• Nursery bed treatment by P. fluorescens@20 g/ m2
		• Soil application P. fluorescens@5 kg/ha mixed with
		500 kg vermi-compost/ha at 30 days after
		transplanting
	Details of Technologies selected for assessment/refinement	• Spray of HNPV @ 250 LE /ha
		ТО2
		 Soil application of Bio consortia of IARI
		• Seed treatment by Trichoderma viride @10 g/kg
		• Nursery bed treatment by Trichoderma viride @50 g/
		m2
		• Soil application Trichoderma viride @5 kg/ha mixed
		with 500 kg vermi-compost/ha at 30 days
		after transplanting
		• Spray of HNPV@ 250 LE /ha
4	Source of Technology	IIHR
5	Replication	07
6	Production System & Thematic	0.5
	Area	
7	Performance of Technology with performance indicator	Integrated Disease and Pest Management
8	Constraints identified and feedback for research	Late blight, Whitefly, Yield attributes and B:C ratio
9	Process of farmers participation and their reaction	Lack of knowledge among farmers about technology.
OFT	-2 (Plant Protection)	H

OFT -2 (Plant Protection)

lem Diagnose	caterpillar in Mango
lem Diagnose	
	Farmer practice: spray of chlorpyriphos as and when
	when symptoms appear
ils of Technologies	T01:
	Collection and destruction of all fallen fruits
	• Spray deltamethrin 0.0028 % (deltamethrin 2.8 EC@
	1ml/lit) at marble size and repeat after
	two weeks
	TO2:
	• Two sprays of thiacloprid 21.7 SC 0.04 % (@ 2ml/lit)
	at 25-30 days interval.
	Note: All spray during morning hours
ce of Technology	IIHR
ication	07
luction System &	0.5
natic Area	
ormance of Technology performance indicator	Integrated Disease and Pest Management
straints identified and	Yield attributes and B:C ratio
	Lack of knowledge among farmers about technology.
-	
	ted for ssment/refinement ce of Technology ication luction System & natic Area ormance of Technology performance indicator

OFT – 3 (Agri. Engineering)

1	Title of On Farm Trial	Assessment of low-cost Mulching in Vegetable Crop Production
2	Problem Diagnose	Weeding operation required more labor, reducing crop yield, and low profitability
3	Details of Technologies selected for assessment/refinement	FP: No mulch TO1: Banana leaf mulch TO2: Crop Residue mulch
4	Source of Technology	RPCAU, Pusa

5	Replication	Weeding problems in vegetables and moisture conservation
6	Production System & Thematic Area	Number of irrigation, weed control, Soil temperature, Soil moisture, Cost of Cultivation, Yield, B:C ratio and Soil testing
7	Performance of Technology with performance indicator	yield target to be maximized
8	Constraints identified and feedback for research	Social ignorance regarding mulching process
9	Process of farmers	Training, demonstration.
	participation and their reaction	

OFT -4 (Agri. Engineering)

1	Title of On Farm Trial	Assessment of different weeding tools in paddy crop
2	Problem Diagnosed	Weeding problems in paddy crop
3	Details of Technologies selected for assessment/refinement	FP: Manually by local hand toolsTO1: Manual inter culturing with grubberTO2: Inter culturing with power weeder
4	Source of Technology	RPCAU, Pusa
5	Replication	Weeding in paddy crop and ergonomic evaluation of operators
6	Size of plot of each replication	Field capacity, Weeding efficiency, Cost of interculturing, Pulse rate, ECG, Oxygen level, Yield and B:C ratio
7	Production System & Thematic Area	Ergonomics of the subjects to be improved
8	Performance of Technology with performance indicator	Limitation of line sowing practices limits the use of machineries
9	Constraints identified and feedback for research	Training, Demonstration
10	Process of farmers participation and their reaction	RPCAU, Pusa

OFT -5 (Home Science)

1	Title of OFT	Development and quality evaluation of honey based carrot
		candy
2	Problem diagnosed	Children are consuming locally available candies which have poor nutritive value
3	Detail of technologies selected for assessment	Farmer's Practice:- Children consume fresh carrot as such as vegetables or juice.
		T.O.1: Preparation of Carrot candy Honey- 750g + carrot-1000g

		T.O.2: Honey-1000g + carrot-1000g
4	Source of technology	Aligarh Muslim University
5	Replication	7
6	Production system/Thematic	Value Addition
	area	
7	Performance of tech. with	Sensory Evaluation of the developed Carrot Candy for its
	performance indicator	acceptability, BC Ratio
8	Constraints identified &	Short lectures
	feedback for farmers	Demonstrations
9	Process of farmers	
	participation and their	
	reaction	

OFT -6 (Home Science)

1	Title of OFT	Assessment of the effectiveness of Mittens for soybean harvesting	
2	Problem diagnosed	Problems faced by farm workers while performing harvesting	
		of Soybean	
3	Detail of technologies selected for assessment	 Farmer's Practice:- Soybean harvesting is performed manually with the help of sickle. T.O.1 Using locally available gloves for cutting, collecting and bundling plants manually. T.O.2: Using protective mittens developed by AICRP FRM, College of Home Science, VNMKV Parbhani for soybean harvesting 	
4	Source of technology	AICRP Family Resource Management, College of Home	
	Source of technology	Science, VNMKV Parbhani	
5	Replication	7	
6	Production system/Thematic	Drudgery Reduction	
	area		
7	Performance of tech. with	Soybean harvesting efficiency (%), overall discomfort rate,	
	performance indicator	Musculo-skeletal problem, Drudgery index	

OFT-7 (Veterinary Science)

1.	Title of On Farm Trial	Effect of feeding Complete Feed Block on performance in	
		Dairy Animals	
2.	Problem Diagnose	High transportation cost and is one of reasons for Field Burning of Straw Problems in storage leads to Mould contamination and mycotoxins risk in feed to food chain	
		Balanced Ration for livestock	
3.	Details of Technologies		
	selected for assessment	T.O.1 Wheat straw and concentrate feeding	
		T.O. 2: Compressed feed Block	
		T.O. 3: Total Mixed ration Feeding	
		T.O.4: Compressed feed Block with additives	
4.	Source of Technology	ICAR-IVRI	
5.	Replication	07	
6.	Production System & Thematic Area	Dairy management/Feed management	
7.	Performance of	DMI increase	
	Technology with	Milk production	
	performance indicator	• Ease of storage	
		Mycotoxins control	
8.	Constraints identified	Feed Block compressor	
	and feedback for	-	
	research		
9.	Process of farmers	Training	
	participation and their	Demonstration	
	reaction	Feeding trial and Parameter assessment	

OFT- 8 (Veterinary Science)

1.	Title of On Farm Trial	Effect of feeding hydroponic wheat and maize green	
		fodders on milk production in dairy animals	
2.	Problem Diagnose		
		Nutritional deficiency in Dairy animals and High feed	
		cost	
3.	Details of Technologies selected for	TO-1- Farmer's Practice: No idea of producing	
	assessment	hydroponic fodder	
		TO-2- Capacity building on hydroponic maize fodder	
		production	
		TO-3 - Capacity building on hydroponic wheat fodder	
		production	

4.	Source of Technology	ICAR-NDRI
5.	Replication	7
6.	Production System & Thematic Area	Feed Management
7.	Performance of Technology with performance indicator	 Milk yield (kg/ cow/ day) Cost of feed (Rs. / cow/ day) Feed cost/ kg milk production (Rs.) Gross return from milk (Rs. / cow/ day) Net profit (Rs. / cow/ day) BC ratio
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	 Awareness campaign Field Visit Trial and Demonstration

OFT-9 (Horticulture)

OF I-	9 (norticulture)		
1.	Title of On-farm Trial	Assessment of microbial consortia against wilting in Brinjal	
2.	Problem diagnosed	Farmers were using only chemical pesticides to control wilting and they were unaware of IDM practices	
3.	Details of technologies selected for assessment/refinement	FP: Chemical pesticidesTO₁: IIHR consortia (Arka microbial consortia)TO₂: NRC Litchi consortia	
4.	Source of Technology	ICAR- IIHR, Bengaluru, NRC-Litchi	
5.	Production system and thematic area	Vegetable crops, IDM	
6.	Performance of the Technology with performance indicators	Yield, number of fruits, and B: C ratio.	
7	Process of farmers participation and their reaction	Group discussionInteraction with farmers	
8	Observation to be recorded	 Initial plant population First wilt incidence (days after transplanting) Wilting percentage at 15, 30, 45, 60, and 75 DAT Yield (q/ha) Economics (Rs. /ha 	

OFT- 10 (Horticulture)

1	Title of On-Farm Trial	Assessment of organic inputs for papaya cultivation	
2	Problem Diagnose	Low production and leaf curl virus major problems	
3	Details of Technologies selected for assessment	 FP: FYM/Compost TO₁: VC (2 kg)/FYM (10 kg) + IIHR consortia TO₂: VC (2 kg) + Coimbatore consortia TO₃: VC (2 kg) + Ghanjeevaamrit + liquid solutions of non edible oil cake (500 g/plant- 5 drenching 	
4	Source of Technology	ICAR – ATARI, Patna	
5	Production System & Thematic Area	Fruit Crop and IPM	
6	Performance of Technology with a performance indicator	Quality fruit production with higher productivity	
7	Process of farmers' participation and their reaction	Group discussionInteraction with farmers	
8	Observation to be recorded	 Plant height (m) Number of fruits per plant Average fruit weight (g) Yield per tree Economics (Rs. /ha) 	

OFT-11 (Crop Production)

1	Title of On Farm Trial	Improvement of Nitrogen use efficiency in wheat
2	Problem Diagnose	Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation
3	Details of Technologies	Technological Options: Technology Details
	selected for assessment/refinement	Farmer Practice: RDF (100:40:20) Kg/ha
		Technological Option 1: 50% of RDN & 100% PK + nano
		urea @4ml/lt. water (Single spray at 35 DAS).
		Technological Option 2 : 50% of RDN & 100% PK + 2
		sprays of Nano Urea at (35 DAS) and (60-65DAS) @ 4 ml/lt
		water.

		(Timely sown variety of BAU Sabour. BAU Ranchi and RPCAU, Pusa, ICAR RCER, Patna)	
4	Source of Technology	House of the OFT finalization workshop, BAU, Sabour	
5	Replication	07	
6	Production System & Thematic Area	Crop production (improvement of Nitrogen use efficiency)	
7	Performance of Technology with performance indicator	 Soil data before and after (pH, EC, OC, NPK,), Yield data No. of effective tillers/ m², 1000 grain wt. Panicle wt. Straw yield and Economics. 	
8	Constraints identified and feedback for research	-	
9	Process of farmers participation and their reaction	Training and Field Day.	

OFT-12 (Crop Production)

1	Title of On Farm Trial	Improvement of Nitrogen use efficiency in rice	
2	Problem Diagnose	Excessive use of chemical fertilizer and Spiraling price of urea leads to increase in cost of cultivation	
3	Details of Technologies selected for assessment/refinement	Technological Options: Technology Details Farmer Practice: RDF (100:40:20) Kg/ha Technological Option 1: 50% of RDN & 100% PK + nano urea @4ml/lt. water (Single spray at pre flowering stage).	
		Technological Option 2: 50% of RDN & 100% PK + 2 sprays of Nano Urea at (25 to 30 days) and (60-65 days) @ 4 ml/lt water	
4	Source of Technology	House of the OFT finalization workshop, BAU, Sabour	
5	Replication	07	
6	Production System & Thematic Area	Crop production (improvement of Nitrogen use efficiency)	
7	Performance of Technology with performance indicator	 Soil data before and after (pH, EC, OC, NPK,) Yield data No. of effective tillers/m² 1000 grain weight Panicle weight Grain and Straw yield 	

		Economics.
8	Constraints identified and	-
	feedback for research	
9	Process of farmers	Training and Field Day.
	participation and their	
	reaction	

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	CFLD on Oil seed under NFSM	
2	CFLD on Pulses under NFSM	
3	CSISA- KVK survey work	
4	Doubling farmers income	
	Total :	

11. No. of success stories proposed to be developed with their tentative titles : 05

12. Scientific Advisory Committee

Date of SAC meeting held during 2020-21	Proposed date during 2023
22.10.2021	July 2023

13. Soil and water testing

Details	No. of Sample s	No. of Farmers							No. of	No. of SHC		
		SC		ST		Other		Total		Village	distributed	
		Μ	F	Μ	F	Μ	F	Μ	F	Т	s	
Soil Samples	2000	200	100	-	-	1400	300	1600	400	2000	30	2000
Water Samples	-	-	-	-	-	-	-	-	-	-	-	-
Other (Please specify)	-	-	-	-	-	-	-	-	-	-	-	-
Total	2000	200	100	-	-	1400	300	1600	400	2000	30	2000

14. Fund requirement and expenditure (Rs.)*

	Expenditure (last year) (Rs in Lakh.) 2022-23	Expected requirement (Rs.) 2023
Recurring		
Pay & allowance	10395288.00	300000.00
Contingency	250000.00	
TA + HRD	75000+15000 = 90000.00	

Total	10735288.00	3000000.00		
Non-recurring (specify)				
i) Work (Staff quarter & Demo units)	-	-		
ii)Equipment, furniture & furnishing	-	-		
iii)Soil water & testing	-	-		
iv) Boundary wall for administrative	-	-		
building				
v) Farm equipment shed	-	-		
vi)Pump house	-	-		
vii)New official vehicle	-	-		
Total	-	-		
G.Total	_	-		

* 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

Round-the-year vegetable seedlings production in low-cost poly house

Introduction

Vegetable production in Bihar is significantly influenced by seasonality and weather conditions. The productivity of vegetable crops is very low due to diverse climatic conditions and number of factors like abiotic stresses like high rainfall during the rainy season, moisture stresses during summer, frost during the winter season, poor soil nutrients due to losses resulting from the process of leaching and biotic stresses. Protected cultivation provides the best alternative for the regulation/modification of the above factors as per the requirement of the crops to realize the maximum potential. They also have the advantage of off-season production to get higher prices.

High-value vegetable crops: The major crops have been identified for the production of seedlings under low-cost poly house as tomato, capsicum, chili, cauliflower and cabbage.

Construction of low-cost poly house: The low-cost poly house of 100 m² area can be constructed by using transparent, UV stabilized and 200-micron thickness polythene sheet and locally available materials like bamboo for framing and tied with the help of a wire. During the summer season, there is a need to use 60% shading net for protection against scorching sunlight. The total estimated cost for a 100 m² area will be about Rs. 10,000. There is no need for a heating and cooling system.

Benefits of low-cost poly house

- 1) It is cheaper to build. While the cost of making a regular Poly house is around 1500 -2000 Rs per Sq. meter. the cost of making the bamboo poly house is just 100-150 Rs per Sq. meter.
- 2) It provides a protected environment for seedlings growth from adverse climatic conditions.
- 3) It can produce high quality seedlings.
- 4) In poly house temperature is nearly 6-10° C higher than outside which makes favourable for growth of the seedlings.
- 5) Under bamboo poly house, the use of space is very efficient and more seedlings can easily grow in a minimum area giving a maximum profit.
- 6) Details about seedling production in 100 m² area
- 7)

S.No	Seedlings	Month	Cost (Rs)	Income	Net income			
				(R s)	(R s)			
1	Brinjal	June - July	11500	32500	21000			
2	Cauliflower	July – Aug.	18 500	38250	19750			
3	Tomato	Aug. – Sept.	12500	32500	20000			
4	Bottle gourd	Dec Jan.	18500	55500	37000			
5	Chilli	Feb. – Mar.	10800	32500	21700			
Total			71800	191250	119450			
	B.C Ratio: 2.66							

Impact factor: Round-the-year vegetable seedlings production in low-cost poly house very much benefitted around 30 small and marginal farmers after conducting awareness training and showing demonstration unit of KVK, Lada.



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