KRISHI VIGYAN KENDRA, NARKATIAGANJ,

WEST CHAMPARAN



ANNUAL ACTION PLAN

(APRIL, 2023 to MARCH, 2024)



DR. RAJENDRA PRASAD CENTRAL AGRICULTURAL UNIVERSITY, PUSA, SAMASTIPUR (BIHAR)

A. Practicing farmer/Farm women training:

Month	Thematic area	Title	No of	Duration	Venue	Tentative			No	of p	articip	ants			Grand
			courses	(days)	On/Off	date	S	С	S	Τ	Oth	ers	To	tal	total
				-			Μ	F	Μ	F	Μ	F	Μ	F	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Discipline	: Crop Production														
April, 202	3 to June, 2023														
April	Crop Production	Summer mungbean production technology	1	1	On/Off	01/04/2023	4	0	0	0	22	4	26	4	30
	Farm mechanization	Leaser land leveling	1	1	On/Off	21/04/2023	6	4	0	0	20	0	26	4	30
May	Crop Production	Scientific rice cultivation technology	1	1	On/Off	12/05/2023	0	0	6	0	20	4	26	4	30
	Crop Production	Package and practices of direct seeded rice cultivation	1	1	On/Off	27/05/2023	4	0	0	0	22	4	26	4	30
June	INM	Integrated nutrient management in rice	1	1	On/Off	02/06/2023	0	0	6	2	18	4	24	6	30
	IWM	Integrated weed management in direct seeded rice	1	1	On/Off	16/06/2023	5	2	0	0	20	3	25	5	30
		Total	6	6			19	6	12	2	122	19	153	27	180
July, 2023	to September, 2023														
July	INM	Micronutrient management in rice	1	1	On/Off	07/07/2023	4	0	0	0	22	4	26	4	30
	Crop Production	Direct seeded rice cultivation technology	1	1	On/Off	22/07/2023	6	4	0	0	20	0	26	4	30
August	Crop Production	Production technique of pigeon pea	1	1	On/Off	04/08/2023	0	0	6	0	20	4	26	4	30
	INM	Integrated nutrient management of pigeon pea	1	1	On/Off	18/08/2023	4	0	0	0	22	4	26	4	30

September	Composting	Scientific production techniques of organic manure	1	1	On/Off	02/09/2023	0	0	6	2	18	4	24	6	30
	Crop Production	Package and practices of mustard production	1	1	On/Off	15/09/2023	5	2	0	0	20	3	25	5	30
		Total	6	6			19	6	12	2	122	19	153	27	180
October, 2	023 to Dec, 2023														
October	Crop Production	Package and practices of lentil production	1	1	On/Off	13/10/2023	4	0	0	0	22	4	26	4	30
	Crop Production	Agronomic practices for chickpea production	1	1	On/Off	20/10/2023	6	4	0	0	20	0	26	4	30
November	Bio-fertilizer	Bio-fertilizer application on lentil	1	1	On/Off	10/11/2023	0	0	6	0	20	4	26	4	30
	IWM	Integrated weed management in mustard	1	1	On/Off	18/11/2023	4	0	0	0	22	4	26	4	30
December	IWM	Integrated weed management in mustard	1	1	On/Off	01/12/2023	0	0	6	2	18	4	24	6	30
	Crop Production	Production technology of potato	1	1	On/Off	22/12/2023	5	2	0	0	20	3	25	5	30
		Total	6	6			19	6	12	2	122	19	153	27	180
January, 2	024 to March, 2024														
January	INM	Integrated nutrient management in wheat crops	1	1	On/Off	06/01/2024	4	0	0	0	22	4	26	4	30
	IWM	Integrated weed management in wheat	1	1	On/Off	12/01/2024	6	4	0	0	20	0	26	4	30
February	Crop Production	Ratoon management in sugarcane	1	1	On/Off	02/03/2024	0	0	6	0	20	4	26	4	30
	Crop Production	Production techniques of minor millets	1	1	On/Off	23/02/2024	4	0	0	0	22	4	26	4	30

March	INM	Integrated nutrient management of sugarcane	1	1	On/Off	08/03/2024	0	0	6	2	18	4	24	6	30
	Crop Production	Agronomical practices of summer moongbean	1	1	On/Off	23/03/2024	5	2	0	0	20	3	25	5	30
		Total	6	6			19	6	12	2	122	19	153	27	180
		Grand Total	24	24			76	24	48	8	488	76	612	108	720
	: Plant Protection														
April, 202	13 to June, 2023												-		
April	Disease Management	Identification and management of important diseases in mango	1	1	On/Off	03/04/2023	4	0	0	0	22	4	26	4	30
	Biocontrol	Importance of <i>Trichoderma</i> sp. in sugarcane diseases management	1	1	On/Off	10/04/2023	6	4	0	0	20	0	26	4	30
May	Disease Management	Seed treatment in rice	1	1	On/Off	01/05/2023	0	0	6	0	20	4	26	4	30
	Disease Management	Diseases of rice and their management	1	1	On/Off	08/05/2023	4	0	0	0	22	4	26	4	30
June	Disease Management	Diseases of rice and their management	1	1	On/Off	05/06/2023	0	0	6	2	18	4	24	6	30
	Disease Management	Identification and management of important diseases in mango	1	1	On/Off	12/06/2023	5	2	0	0	20	3	25	5	30
		Total	6	6			19	6	12	2	122	19	153	27	180
July, 2023	to September, 2023														
July	Disease Management	Identification and management of red rot in sugarcane	1	1	On/Off	03/07/2023	4	0	0	0	22	4	26	4	30
	Disease Management	Management of diseases in sugarcane	1	1	On/Off	10/07/2023	6	4	0	0	20	0	26	4	30
August	Disease Management	Integrated disease management in rice	1	1	On/Off	07/08/2023	0	0	6	0	20	4	26	4	30

	Disease	Bacterial blight of	1	1	On/Off	14/08/2023	4	0	0	0	22	4	26	4	30
	Management	rice and their	1	1	011/011	14/00/2023	4	0	0	0	22	4	20	4	50
	Wanagement	management													
September	Disease	Wilt of pigeonpea	1	1	On/Off	04/09/2023	0	0	6	2	18	4	24	6	30
	Management	and their													
		management													
	Insect Pest	Integrated insect pest	1	1	On/Off	11/09/2023	5	2	0	0	20	3	25	5	30
	Management	management in													
		sugarcane													
		Total	6	6			19	6	12	2	122	19	153	27	180
	023 to Dec, 2023				-	1					r		1		
October	IDM	Insect pest	1	1	On/Off	09/10/2023	4	0	0	0	22	4	26	4	30
		management in													
		vegetable crops													
		through bio-													
	IPM	pesticides	1	1	0. /0.55	16/10/2022	6	4	0	0	20	0	26	4	30
	IPM	Pod borer and Pod	1	1	On/Off	16/10/2023	6	4	0	0	20	0	26	4	30
		fly management in Arhar													
November	IPM	Pod borer	1	1	On/Off	06/11/2023	0	0	6	0	20	4	26	4	30
november	IF WI	management in gram	1	1		00/11/2023	0	0	0	0	20	4	20	4	30
	Disease	Blight identification	1	1	On/Off	13/11/2023	4	0	0	0	22	4	26	4	30
	Management	in potato and their													
		management													
December	Disease	Disease	1	1	On/Off	04/12/2023	0	0	6	2	18	4	24	6	30
	Management	management in													
		wheat crop													
	IPM	Pest management in	1	1	On/Off	11/12/2023	5	2	0	0	20	3	25	5	30
		wheat crop													
		Total	6	6			19	6	12	2	122	19	153	27	180
	024 to March, 202														
January	IPDM	Disease and pest	1	1	On/Off	01/01/2024	4	0	0	0	22	4	26	4	30
		management in													
		maize crop							-	-		-			
	Biocontrol	Biocontrol agent and	1	1	On/Off	08/01/2024	6	4	0	0	20	0	26	4	30
		their use in													
		management of plant													
		diseases													

February	IPDM	Disease and pest management in moong crop	1	1	On/Off	05/02/2024	0	0	6	0	20	4	26	4	30
	IPDM	Disease and pest management in oilseed crop	1	1	On/Off	12/02/2024	4	0	0	0	22	4	26	4	30
March	Disease Management	Sett treatment in sugarcane for soil and set borne diseases	1	1	On/Off	04/03/2024	0	0	6	2	18	4	24	6	30
	Biocontrol	Use of <i>Trichoderma</i> and <i>Pseudomonas</i> in management of sugarcane diseases	1	1	On/Off	11/03/2024	5	2	0	0	20	3	25	5	30
		Total	6	6			19	6	12	2	122	19	153	27	180
		Grand Total	24	24			76	24	48	8	488	76	612	108	720
Discipline:	: Farm Machinery a	and Power													
April, 2023	3 to June, 2023														
April	Crop-harvesting	Wheat harvesting technologies	1	1	On/Off	06/04/2023	4	3	0	0	22	1	26	4	30
	Micro-irrigation	Micro-irrigation techniques to save water resources	1	1	On/Off	20/04/2023	6	4	0	0	16	4	22	8	30
May	Others	Site selection and design criteria for farm pond construction	1	1	On/Off	11/05/2023	3	3	0	0	23	1	26	4	30
	Farm mechanization	Farm mechanization a sustainable and effective way to double farmers income	1	1	On/Off	25/05/2023	4	1	0	2	20	3	26	4	30
June	SPIS	Solar powered irrigation system (SPIS) introduction, merits/ demerits, installation location and its types.	1	1	On/Off	13/06/2023	10	0	0	0	20	0	30	0	30
	Direct sowing of rice techniques	Technologies for direct sowing of	1	1	On/Off	17/06/2023	4	0	5	0	21	0	25	0	30

		rice, its importance,													
		merits and demerits													
		Total	6	6			31	11	5	2	122	9	155	20	180
July, 2023	to September, 2023	3	•			•									
July	Weed Management	Weed management in paddy crop for kharif season	1	1	On/Off	04/07/2023	5	0	0	0	26	0	31	0	31
	Weed management	Various weed management methods and it's various available technologies	1	1	On/Off	21/07/2023	0	0	24	0	6	0	30	0	30
August	Repair and Maintenance of farm machinery and implements	Calibration of different agricultural machineries	1	1	On/Off	25/08/2023	4	3	0	0	22	1	26	4	30
	Water management	Various micro irrigation techniques for water saving	1	1	On/Off	29/08/2023	2	2	0	0	26	0	28	2	30
September	Repair and Maintenance of farm machinery	Care and maintenance of Agricultural Equipment	1	1	On/Off	15/09/2023	6	4	0	0	16	4	22	8	30
	Others	Solar powered Irrigation system, a way to use green energy for agricultural purpose	1	1	On/Off	29/09/2023	4	3	0	0	22	1	26	4	30
		Total	6	6			21	12	24	0	118	06	163	18	181
October, 2	023 to Dec, 2023									-					
October	Repair and Maintenance of farm machinery and implements	Technologies for sugarcane bud and node making to increase farm mechanization	1	1	On/Off	06/10/2023	2	0	0	0	26	2	28	2	30
	Others	Role and classification of different farm machineries and equipment's for	1	1	On/Off	13/10/2023	7	4	0	0	17	2	24	6	30

		Rabi crop													
		production													
November	Others	Operation and maintenance of Zero Till machine for sowing of wheat	1	1	On/Off	03/11/2023	4	5	0	0	16	5	20	10	30
	Production of small tools and implements	Implements and Equipment's for Land levelling and shaping for better resource use	1	1	On/Off	10/11/2023	6	1	0	0	20	3	26	4	30
December	Others	Manual Rice- wheat seeder for direct wheat sowing, a low -cost method for wheat sowing	1	1	On/Off	08/12/2023	6	1	0	0	20	3	26	4	30
	Others	Selection criteria and Operation & Maintenance of Farm Tractor	1	1	On/Off	22/12/2023	4	3	0	0	22	1	26	4	30
		Total	6	6			29	14	0	0	121	16	150	30	180
January 20	024, to March, 2024														
January	Others	Various weed management for wheat, how to select appropriate method based upon utility.	1	1	On/Off	05/01/2024	4	3	0	0	22	1	26	4	30
	Installation and maintenance of micro irrigation systems	Site specific based nutrient management techniques.	1	1	On/Off	19/01/2024	4	5	0	0	16	5	20	10	30
February	Water management	Maintenance of drip/sprinkler	1	1	On/Off	02/02/2024	6	1	0	0	20	3	26	4	30
		system													
	Input management	system Precision agriculture to optimize input resources	1	1	On/Off	16/02/2024	4	3	0	0	22	1	26	4	30

					1	1	1					-	1		
		land transformation:													
		- Laser land levellor						_	-						
	Others	Various techniques	1	1	On/Off	23/03/2024	4	3	0	0	25	1	29	4	33
		to harness green													
		energy and methods													
		to reduce air/water/													
		land pollution						10	0	0	100	10	4.80	20	100
		Total	6	6			27	18	0	0	123	12	150	30	180
		Grand Total	24	24			108	55	29	2	484	43	618	98	721
	e: Animal Science (V	eterinary Science)													
	22 to June, 2022	1											•		
April	Dairy animal	Management of	1	1	Off	12/04/22	24	0	0	0	7	0	31	0	31
	management	dairy animals in													
		summer season													
	Dairy animal	Scientific dairy	1	1	Off	19/04/22	4	0	0	0	24	0	28	0	28
	management	farming													
May	Disease	Health management	1	1	Off	10/05/22	19	0	0	0	7	1	26	1	27
	Management	in goat													
	Feeding	Feeding	1	1	Off	17/05/22	6	0	0	0	21	0	27	0	27
	Management	management of													
		dairy cattle													
June	Dairy animal	Clean milk	1	1	On	07/06/22	5	0	0	0	29	1	34	1	35
	management	production													
	Feeding	Feeding	1	1	Off	14/06/22	21	7	0	0	2	1	23	8	31
	Management	management of													
		dairy cattle													
	Dairy animal	Scientific dairy	1	1	Off	21/06/22	5	0	0	0	38	0	43	0	43
	management	farming													
		Total	7	7			84	7	0	0	128	03	212	10	222
	3 to September, 2023														
July	Dairy animal	Azolla production	1	1	On	26/07/22	3	22	0	0	8	0	11	22	33
	management	and use as animal													
		feed													
	Housing of goat	Different types of	1	1	On/off	16/08/22	7	1	5	0	14	3	26	4	30
		housing systems for													
		goat													
August	Feed	Production and	1	1	On/off	23/08/22	7	1	5	0	14	3	26	4	30
	management	preservation of													

		green fodder round							<u> </u>			<u> </u>			
		the year													
	Disease management	Important bacterial, viral and parasitic diseases in goat	1	1	On/off	06/09/22	7	1	5	0	14	3	26	4	30
September	Layer Production	Important breed and its scope	1	1	On/off	20/09/22	7	1	5	0	14	3	26	4	30
		Total	5	5			31	26	20	0	64	12	115	38	153
October, 2	023 to Dec, 2023														
October	Poultry rearing	Commercial broiler and layer farming	1	1	On/Off	11/10/22	7	1	5	0	14	3	26	4	30
	Housing management	Different types of housing system in poultry	1	1	On/Off	18/10/22	7	1	5	0	14	3	26	4	30
November	Feeding Management	Feeding schedule for poultry in different production system	1	1	On/Off	08/11/22	7	1	5	0	14	3	26	4	30
	Disease management in Chicken	Important bacterial, viral and parasitic diseases in poultry	1	1	On/Off	22/11/22	7	1	5	0	14	3	26	4	30
December	Milk hygiene	Clean milk production in dairy animals	1	1	On/Off	06/12/22	7	1	5	0	14	3	26	4	30
	Fodder management	Preservation of feeds and fodders	1	1	On/Off	20/12/22	7	1	5	0	14	3	26	4	30
		Total	6	6			42	6	30	0	84	18	156	24	180
January 20	24, to March, 202				-		1				1				
January	Dairy Animal Management	Management of dairy animals during different stages of production	1	1	On/Off	10/01/24	7	1	5	0	14	3	26	4	30
	Disease Management	Preventive and curative measures for different diseases in animals	1	1	On/Off	17/01/24	7	1	5	0	14	3	26	4	30
February	Feeding management	Scope and limitation of feeding balanced ration and total	1	1	On/Off	08/02/24	7	1	5	0	14	3	26	4	30

		mixed ration in animals													
	Housing management	Different types of housing system and its importance in animals	1	1	On/Off	22/02/24	2	1	5	0	14	3	21	4	25
March	Waste management	Different technique for management of animals waste in dairy farm	1	1	On/Off	13/03/24	2	1	5	0	14	3	21	4	25
	Animal health	Control measures of Ecto & Endo parasites in cattle	1	1	On/Off	20/03/24	2	1	5	0	14	3	21	4	25
		Total	6	6			27	6	30	0	84	18	141	24	165
		Grand Total	24	24			184	45	80	0	360	59	624	96	720

B. Rural Youth training:

Month	Thematic area	Title	No of	Duration	Venue	Tentative					rticij	pants			Grand
			courses	(days)	On/Off	date	S	С	S	Т	Oth	iers	To	otal	total
				-			Μ	F	Μ	F	Μ	F	Μ	F	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Discipline	Crop Production					•									
	3 to June, 2023														
• /															
July, 2023	to September, 2023	-													
September		Scientific techniques of	1	4	On	20 -	4	0	0	0	19	2	23	2	25
I	1 1	sugarcane settling				23/09/2022									
		production													
		1													
October, 2	023 to Dec, 2023														
	2024 to March, 2024		1	•				r							
January	Composting	Vermicompost	1	4	On	24 –	4	0	0	0	19	2	23	2	25
	technique	preparation techniques				27/01/2024									
		Total	2	8			8	0	0	0	38	4	46	4	50
	Plant Protection														
April, 202.	3 to June, 2023														
July, 2023	to September, 2023														
August	Mushroom	Mushroom production	1	4	On	08 -	4	0	0	0	19	2	23	2	25
-	production	technique				11/08/2022									
October, 2	023 to Dec, 2023														
October	Beekeeping	Honey Bee Farming	1	4	On	10-	4	0	0	0	19	2	23	2	25
						13/10/2023									
January, 2	024 to March, 2024														
		Total	2	8			8	0	0	0	38	4	46	4	50
Discipline	Farm Machinery a	nd Power	•			•									
	3 to June, 2023														
• /															
July 2023	to September, 2023	- k		•								•	•		

October, 2	2023 to Dec, 2023														
October	Water Management	Installation, operation and maintenance of Solar powered irrigation system	1	4	On/Off	17- 21/10/2023	10	1	0	0	15	4	25	5	30
January, 2	 2024 to March, 2024														
February	Repair and maintenance of farm machinery and implements	Role, classification and use of different Farm tools, implements and machineries in agriculture	1	4	On/Off	20- 24/02/2024	8	4	0	0	16	2	24	6	30
		Total	2	8			18	5	0	0	31	6	49	11	60
Discipline	: Animal Science (Ve		4	0			10	5	U	U	51	U	-	11	00
	3 to June, 2023	······································													
July, 2023	to September, 2023					-			-				-		
September	IFS	Livestock based IFS model	1	4	On/Off	13- 16/09/2023	7	1	5	0	14	3	26	4	30
October, 2	023 to Dec, 2023														
October	IFS	Commercial dairy farming	1	4	On/Off	16- 19/10/2023	7	1	5	0	14	3	26	4	30
Januarv	2024 to March, 2024														
Guildur y, 2															
					1	1			1	1			1		

C. Vocational training:

Month	Thematic area	Title	No of	Duration	Venue	Tentative			No	of pa	rticij	Grand			
			courses	(days)	On/Off	date	S	С	S	Т	Otl	ners	To	tal	total
							Μ	F	Μ	F	Μ	F	Μ	F	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Discipline	Crop Production	· l		•	•										
April, 202.	3 to June, 2023														
July, 2023	to September, 202	23													
October, 2	023 to Dec, 2023	·		•	•										
October	Crop	Scientific cultivation of	1	5	On	03 -	8	0	0	0	20	2	28	2	30
	production	Rabi crops				07/10/2023									
T															
January, 2	2024 to March, 202	24	T	1	[-								
		T-4-1	1	5			0	0	•	0	20	2	20	•	20
D' ' I'		Total	1	5			8	0	0	0	20	2	28	2	30
	Plant Protection														
. /	3 to June, 2023		1	~	0	10	0		0	0	20	0	20	0	20
April	Biocontrol	Biofortified FYM production with the use of	1	5	On	10 – 14/04/2023	8	0	0	0	20	2	28	2	30
		Agriculturally important				14/04/2023									
		microbes													
		Interobes													
July 2023	to September, 202)3													
July, 2023							1						[
October 2	023 to Dec, 2023										l				
0000001,2	<u>1025 to Dec, 2025</u>														
Ianuary 2	2024 to March, 202	24													
Sanuar y, 2											1				
		Total	1	5			8	0	0	0	20	2	28	2	30
Discipline	Farm Machinery		1	5			0	U	U	U	20	4	20	4	50
	3 to June, 2023														
¹ 1p111, 202.															
July 2023	to September, 202	23	I				I	L	L	L	I	L	L	[]	
July, 2023	to September, 202								<u> </u>	r –	1	1			

1				-	r	1					1	1		
024 to March, 20	24													
Renewable energy based irrigation	Solar powered irrigation system	1	5	On/Off	06- 11/02/2024	9	2	0	0	11	8	20	10	30
	Total	1	5			9	2	0	0	11	8	20	10	30
Animal Science	(Veterinary Science)													
to June, 2023														
to September, 20	23							1	1	•	1			
023 to Dec, 2023														
024 to March, 20	24													
Goat farming	Commercial goat farming and its management	1	5		11- 15/03/2024	7	1	5	0	14	3	26	4	30
	Total		5			7		5	0	14	3	26		30
	Renewable energy based irrigation Animal Science to June, 2023 to September, 20 023 to Dec, 2023 024 to March, 20	energy based system irrigation Total Animal Science (Veterinary Science) to June, 2023 to September, 2023 Conservation Co	Renewable energy based irrigation Solar powered irrigation system 1 Image: Total 1 Animal Science (Veterinary Science) 1 to June, 2023 1 Image: Total 1 Animal Science (Veterinary Science) 1 to September, 2023 1 Image: Total 1 Image: Total 1 Animal Science (Veterinary Science) 1 Image: Total 1 Image: Total 1 Image: Total 1 Image: Total 1	Renewable energy based irrigationSolar powered irrigation system15Image: Solar powered irrigation system15Image: Total115Animal Science (Veterinary Science)15Image: Total15Image: Total15Image: Total15Image: Total15Image: Total15Image: Total15Image: Total15	Renewable energy based irrigation Solar powered irrigation system 1 5 On/Off Irrigation I <td< td=""><td>Renewable energy based irrigationSolar powered irrigation 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D. Extension Functionaries training:

Month	Thematic area	Title	No of	Duration	Venue	Tentative				of participants					Grand
			courses	(days)	On/Off	date	S		S			iers	To		total
							Μ	F	Μ	F	Μ	F	Μ	F	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Discipline:	Crop Production														
April, 2023	to June, 2023														
July, 2023	to September, 2023			1				1				-	-		
	23 to Dec, 2023			1	-						1 .				
November	Crop production	Zero tillage wheat	1	1	On	03/11/2023	4	0	0	0	19	2	23	2	25
		production techniques													
T Of															
	024 to March, 2024	01.	1	1	0	00/02/02024	4	0	0	0	10		02	2	25
February	Crop production	Quality seed	1	1	On	09/02/02024	4	0	0	0	19	2	23	2	25
		production in													
		sugarcane													
	Total		•	2			8	•	0	0	38	4	16	4	50
D:			2	2			ð	0	0	0	38	4	46	4	50
	Plant Protection to June, 2023														
Арги, 2023	to June, 2025											1			
July 2023	to September, 2023														
July, 2023 (to September, 2025														
October, 20)23 to Dec, 2023														
November	Biocontrol	Biopesticide in	1	1	On	09/11/2023	4	0	0	0	19	2	23	2	25
		management of plant	-	-	011	0,711,2020		Ŭ	Ŭ	Ű		_		_	
		diseases													
January, 2	024 to March, 2024					•									
February	Crop production	Recent approaches in	1	1	On	08/02/02024	4	0	0	0	19	2	23	2	25
2	**	management of plant													
		diseases													
		Total	2	2			8	0	0	0	38	4	46	4	50

	1	1		1	- 1										
July, 2023	to September, 2023														
September	Care and Maintenance of Farm equipments and Machineries	Care & maintenance of tillage, sowing and intercultural equipment's and machines	1	1	On/Off	22/09/2023	2	0	0	0	21	0	23	2	25
October, 2	023 to Dec, 2023														
October	Renewable Energy	Use of SPIS for increasing the use of green energy	1	1	On/Off	27/10/2023	4	0	0	0	19	2	23	2	25
January, 2	024 to March, 2024							-			-				
		Total	2	2			6	0	0	0	40	2	46	4	50
Discipline:	Animal Science (Vet	erinary Science)		•											
	3 to June, 2023	U /													
r ,															
July 2023	to September, 2023							1		1					
5 dry, 2025							1								
October 2	023 to Dec, 2023														
October, 2	025 to Dec, 2025						1	1		1					
1 0															
	024 to March, 2024			-			-	-	-	-		-			
January	Scientific farming	Commercial cultivation of vegetable crops	1	1	On/Off	10/01/2024	5	3	2	0	13	3	20	5	25
March	Protective cultivation technology	Protective cultivation technique of high value vegetable crops.	1	1	On/Off	15/02/2024	3	3	0	0	18	1	21	4	25
		Total	2	2			8	6	2	0	31	4	41	9	50

E. Front Line Demonstrations:

Season	Crop/Enterprise	Technology/Variety	Area (ha)	No. of Beneficiaries
Disciplin	ne: Crop Production			
Kharif	Zinc application in rice	Foliar application of Zn at tillering, panicle initiation and pre-flowering stage @ 0.5% Zn	2.0	20
Rabi	Bio-fortified wheat variety	Wheat variety DBW-187/WB-02/others	2.0	10
		Total	4.0	30
Disciplin	ne: Plant Protection		· · · ·	
Autumn	Sugarcane settling transplanting technique	Rajendra Ganna 3 (500 settlings/farmer)	0.25	10
		Total	0.25	10
Disciplin	ne: Farm Machinery and Power			
Kharif	DSR with rice-wheat seeder	Paddy direct sowing using manual rice-wheat seeder	2.0	10
		Total	2.0	10
Disciplin	ne: Animal Science (Veterinary Science)		· · · ·	
	Combined vaccination for FMD, HS	Combined vaccination for FMD, HS and BQ @ 3	30	50 animals
	and BQ in dairy animal	ml/animal	family	
	Deworming and PPR vaccination in	PPR @ 1.0 ml/animal and fenbendazole @ 5mg/kg body	30	100 goats
	goat	wt.	family	-
		Total	60	120
			family	

F. Cluster Front Line Demonstrations:

Season	Сгор	Technology/Variety	Area (ha)	No. of Beneficiaries
Discipli	ne: Crop Production			
Rabi	Rapeseed/Mustard	Rajendra Sufhalam/Giriraj (DRMRIJ 31) (ZT, IPM, INM)	40	100
		Total	40	100
Disciplin	ne: Plant Protection			
Rabi	Lentil	IPL 316	20	50
Rabi	Chickpea	RVG 202	20	50
		Total	40	100

G. On Farm Trial (OFT) for the Year, 2023–2024:

Discipline: 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 selected	Farmers Practice: RDF (N:P:K :: 100:40:20 kg ha ⁻
	for assessment/refinement	¹)
		TO-I: 50% of RDN and 100% PK + nano urea @ 4
		ml lt ⁻¹ water (single spray at 35 DAS)
		TO-II: 50% of RDN and 100% PK + 2 sprays of
		nano urea at (35 DAS) and (60-65DAS) @ 4 ml lt^{-1}
		water
4	Source of Technology	Proceeding of OFT finalization workshop on
		Agronomy/Soil Science for KVKs Bihar and
		Jharkhand (Zone-IV) held during 01-03 September,
		2022
5	Replication	06
6	Plot size	$10 \times 10 \text{ m}^2$ in each tech. options
7	Production System & Thematic	Nutrient use efficiency enhancement
	Area	
8	Performance of Technology with	• Soil data before and after (pH, EC, OC, NPK)
	performance indicator	Yield data
		• No. of effective tillers m ⁻²
		• 1000 grain wt.
		• Panicle wt.
		Straw yield
		Economics

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	Farmers Practice: RDF (N:P:K :: 100:40:20 kg ha ⁻
	for assessment/refinement	¹)
		TO-I: 50% of RDN and 100% PK + nano urea @
		4ml lt ⁻¹ water (single spray at pre flowering stage)
		TO-II: 50% of RDN and 100% PK + 2 sprays of
		nano urea at (25 to 30 days) and (60-65 days) @ 4
		ml lt ⁻¹ water
4	Source of Technology	Proceeding of OFT finalization workshop on
		Agronomy/Soil Science for KVKs Bihar and
		Jharkhand (Zone-IV) held during 01-03 September,
		2022
5	Replication	06
6	Plot size	$10 \times 10 \text{ m}^2$ in each tech. options
7	Production System & Thematic	Nutrient use efficiency enhancement
	Area	
8	Performance of Technology with	• Soil data before and after (pH, EC, OC, NPK)
	performance indicator	• Yield data
		• No. of effective tillers m ⁻²
		• 1000 grain wt.
		• Panicle wt.
		Straw yield
		Economics

1	Title of On Farm Trial	Diversification of rice-based cropping systems
2	Problem Diagnose	Low profitability of existing cropping system
3	Details of Technologies selected	Farmers Practice: Rice – Wheat
	for assessment/refinement	TO-I: Rice – Maize + Potato
		TO-II: Rice – Maize + Vegetable Pea
		TO-III: Rice – Wheat – Green gram
4	Source of Technology	Proceeding of OFT finalization workshop on
		Agronomy/Soil Science for KVKs Bihar and
		Jharkhand (Zone-IV) held during 01-03 September,
		2022
5	Replication	06
6	Plot size	$10 \times 10 \text{ m}^2$ in each tech. options
7	Production System & Thematic	Crop diversification
	Area	
8	Performance of Technology with	• Soil data before and after (pH, EC, OC, NPK)
	performance indicator	• Rice equivalent yield qt ha ⁻¹ of all crops
		• Sole crop and intercropping cost of cultivation

Discipline: Plant Protection

1	Title of On Farm Trial	Improvement of nitrogen use efficiency in wheat
2	Problem Diagnose	Lower yield and poor fruit establishment in mango
		due to severe incidence of red banded caterpillar
3	Details of Technologies selected	Farmers Practice: Spray of chlorphyriphos as and
	for assessment/refinement	when symptoms appear
		TO-I: > 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.
		TO-II: Two sprays of thiacloprid 21.7 SC 0.04 %
		(@ 2ml/lit) at 25-30 days interval.
		Note: All spray during morning hours
4	Source of Technology	Proceeding of OFT finalization workshop on
		Agronomy/Soil Science for KVKs Bihar and
		Jharkhand (Zone-IV) held during 29-30 September,
		2022
5	Replication	06
6	Production System & Thematic	Insect pest Management
	Area	
7	Performance of Technology with	Reduction % in pest population
	performance indicator	• Number of damaged fruits/100 randomly
		selected shoot
		Economics

1	Title of On Farm Trial	Assessment of technology for red rot
		management in sugarcane
2	Problem Diagnose	Lower yield and poor crop establishment in
		sugarcane due to severe incidence of red rot
3	Details of Technologies selected	Farmers Practice: Carbendazim 50% WP @ 2 g/lit
	for assessment/refinement	of water spray on cane set
		TO-I: Sett treatment with <i>Trichoderma viride</i> (tv 1)
		@ 4 g/l and Pseudomonas fluorescens @ 10 g /lit
		of water for 10 minutes
		TO-II: Azoxystrobin 18.2%+Difenoconazole
		11.4% SC @ 1 ml /lit of water 2-3 spray at 15 days
		interval from July
4	Source of Technology	Proceeding of OFT finalization workshop on
		Agronomy/Soil Science for KVKs Bihar and
		Jharkhand (Zone-IV) held during 29-30 September,
		2022
5	Replication	06
7	Production System & Thematic	Sugarcane and integrated disease management
	Area	(IDM)
8	Performance of Technology with	1. % disease reduction 2. no. of tillers 3. no. of
	performance indicator	cane/10 sqm 3. wt. of per cane 4. length of cane 5.
		yield (q/ha) 6. BCR.

Discipline: Farm Machinery and Power

1	Title of On Farm Trial	Assessment of appropriate wheat harvest
		technology to farmers practice
2	Problem Diagnose	Labour shortage during peak season and the
		high cost of harvesting
3	Details of Technologies selected for	Farmers Practice: Manual harvesting +
	assessment/refinement	threshing using thresher
		TO-I: Wheat cutting using Reaper cum binder
		+ threshing using thresher
		TO-II: Complete harvesting using combine-
		harvester
4	Source of Technology	PAU Ludhiana
5	Replication	07
6	Production System & Thematic Area	Wheat crop mechanization
7	Performance of Technology with	• Cost of operation (Rs/ha)
	performance indicator	• Field capacity in cutting/harvesting (ha/hr)
		• Field efficiency in cutting/harvesting (%)
		Crop Yield (kg/ha)
		• B:C ratio
8	Constraints identified and feedback	Newly started.
	for research	
9	Process of farmers participation and	I. Field visit
	their reaction	II. Face to face conversation.

1	Title of On Farm Trial	Assessment of different methods of cutting sets
		of sugarcane for plantation
2	Problem Diagnose	Labour shortage during peak season and the high
		cost of operation
3	Details of Technologies selected	Farmers Practice: Set cutting by traditional
	for assessment/refinement	chopper
		TO-I: Bud cutting by bud chipping machine
		TO-II: Single node cutting by node cutting
		machine
4	Source of Technology	RPCAU Pusa
5	Replication	07
6	Production System & Thematic	Sugarcane mechanization
	Area	
7	Performance of Technology with	• Set cutting per hour
	performance indicator	• Germination (%)
		Crop Yield
		• B:C ratio
		• Ergonomics: - Heart rate (beats/min), Average
		energy expenditure(kJ/min), and Rest pause
		time
8	Constraints identified and	Newly started.
	feedback for research	
9	Process of farmers participation	I. Field visit
	and their reaction	II. Face to face conversation.

Discipline: Animal Science (Veterinary Science)

1	Title of On Farm Trial	Assessment of Azolla feeding on milk
		production in dairy cow
2	Problem Diagnose	Low feeding of concentrate due to high cost and
		low availability
3	Details of Technologies selected	Farmers Practice: Farmers Practice (feeding
	for assessment/refinement	wheat and paddy straw with concentrate)
		TO-I: Use of Azolla @ 1.0 kg per animal per day
		+ 80% of required quantity of concentrate with
		existing fodder
		TO-II: Use of <i>Azolla</i> @ 1.5 kg per animal per day
		+ 70% of required quantity of concentrate with
		existing fodder
4	Source of Technology	NDRI Karnal (Eastern Regional Station, Kalyani)
5	Replication	10
6	Production System & Thematic	Feeding management in dairy cow
	Area	
7	Performance of Technology with	Milk Yield
	performance indicator	• % increases in milk production
		• B:C ratio
		• Milk quality (Fat % & SNF)
8	Constraints identified and	Newly started.
	feedback for research	
9	Process of farmers participation	I. Field visit
	and their reaction	II. Face to face conversation

1	Title of On Farm Trial	Evaluation of area specific mineral mixture in
		dairy cattle
2	Problem Diagnose	Low productivity in cow due to non feeding of
		mineral mixture
3	Details of Technologies selected	Farmers Practice: Feeding straw + concentrate +
	for assessment/refinement	commercial mineral mixture @ 50 gm/day/cow
		TO-I: Feeding straw + concentrate + area specific
		mineral mixture (ICAR-RCER, Patna) @ 50
		gm/day/cow
4	Source of Technology	ICAR-RCER, Patna
5	Replication	10
6	Production System & Thematic	Health Management in dairy cattle
	Area	
7	Performance of Technology with	Milk Yield
	performance indicator	• % increases in milk production
		• B:C ratio
		• Milk quality (Fat % & SNF)
8	Constraints identified and	Newly started.
	feedback for research	
9	Process of farmers participation	I. Field visit
	and their reaction	II. Face to face conversation.