



ANNUAL ACTION PLAN 2024

KRISHI VIGYAN KENDRA, BHAGALPUR

Bihar Agricultural University, Sabour - 813210 Bhagalpur (Bihar)

Brief introduction about KVK, Bhagalpur

Krishi Vigyan Kendra, Bhagalpur is an innovative centre of Indian Council of Agricultural Research (ICAR), Pusa, New Delhi sanctioned vides Letter. No. 18(4)99-NATP dated 01.04.2004 and Krishi Vigyan Kendra, Sabour has established on 1st April 2004 under the administrative control of RAU, Pusa, Samastipur and presently work with Bihar Agricultural University, Sabour, Bhagalpur (Bihar). The economy of the district is characterized by agriculture and the main food crops grown in the area are Paddy, Wheat, Maize, Pulses and Oilseeds, engaging more than 70 per cent of the work force. Horticulture crops commonly grown are Mango, Banana, Litchi and Guava. Among vegetables Tomato, Potato, Brinjal, Cauliflower, onion are the main crop.

Apart from agriculture, other allied activities in the district include Dairy, Goatery, Piggery, Poultry, and Fishery etc. The district can become hub of Agro Processing activity in Mango, Litchi, Banana, Tomato, Maize etc. There is potential for activities like Mushroom cultivation, Medicinal and Aromatic plants, Floriculture, Layer farming and Bee keeping.



1. Name of the KVK: Krishi Vigyan Kendra, Sabour, Bhagalpur

Address	Telephone		E mail			
	Office	FAX				
Senior Scientist and Head	0641 - 2451186	_	bhagalpurkvk@gmail.com			
KVK, Bhagalpur (Bihar)			http://bhagalpur.kvk4.in			
Pin – 813 210						

2.Name of host organization: Bihar Agricultural University, Sabour, Bhagalpur

Address	Telephone		E mail
	Office	FAX	
Vice Chancellor	0641 - 2451605	0641 - 2451606	vcbausabour@gmail.com
BAU, Bhagalpur, Bihar			www.bausabour.ac.in
Pin - 813 210			

3.Staff Position (As on 01.01.2024)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent/ Temporary	Category
1.	Senior Scientist & Head	Dr. Rajesh Kumar	Senior Scientist & Head	Temporary	-
2.	Subject Matter Specialist	Smt. Anita Kumari	Subject Matter Specialist (Home Science)	Permanent	OBC
3.	Subject Matter Specialist	Er. Pankaj Kumar	Subject Matter Specialist (Agril. Engg.)	Permanent	OBC
4.	Subject Matter Specialist	Dr. Mamta Kumari	Subject Matter Specialist (Horticulture)	Permanent	General
5.	Subject Matter Specialist	Dr. Md. Zeaul Hoda	Subject Matter Specialist (Animal Sci.)	Permanent	OBC
6.	Subject Matter Specialist	Dr. Pawan Kumar	Subject Matter Specialist (Entomology)	Permanent	General
7.	Subject Matter Specialist	Dr. Manish Raj	Subject Matter Specialist (Agronomy)	Permanent	OBC
8.	Farm Manager	Sri Saksham Kumar Sinha	Farm Manager	Permanent	OBC
9.	Programme Assistant	Smt. Rubi Kumari	PA (Lab Technician)	Permanent	SC
10.	Programme Assistant	Anjum Hashim	PA(Computer)	Permanent	OBC
11.	Accountant / Superintendent	Sri Ishwar Chandra	Assistant	Permanent	General
12.	Stenographer	Sri Shashi Kant	Stenographer	Permanent	OBC
13.	Driver (Bolero)	Sri Niranjan Kumar Das	Driver	Permanent	SC
14.	Driver (Tractor)	Sri Rakesh Chandra Jha	-	-	General
15.	Supporting staff	Vacant	Supporting Staff	-	-
16.	Supporting staff	Vacant	Supporting Staff	-	-

4.Total land with KVK (in ha): 10 ha.

Sl.	Item	Area		Under Buildings
No.		(ha)	6%	Onder Dunungs
1.	Under Buildings	1.70	17%	
2.	Under Demonstration	0.40	4%	Under
	Units	0.40		Demonstration Units
3.	Under Crops	2.30		🖬 Under Crops
4.	Orchard/Agro-forestry	5.00		
5.	Others with details	0.60	50% 23%	Orchard/Agro-
	Total	10.00		forestry
				Others with details

5.Major farming systems/enterprises (based on the analysis made by the KVK)

Sl. No.	Farming system/enterprise
1.	Agriculture – Horticulture
2.	Agriculture – Aquaculture – Horticulture
3.	Agriculture – Poultry – Dairy
4.	Agriculture – Poultry – Dairy – Horticulture
5.	Agriculture – Aquaculture
6.	Floriculture – Agriculture – Aquaculture
7.	Agriculture – Horticulture – Beekeeping – Forestry

6.About District

Demographic Features			
Area (in ha.)	256900		
No. of Sub-Division	03 (Bhagalpur Sadar, Kahalgaon and Naugachhia)		
No. of Block	16		
No. of Gram Panchayat	242		
No. of Village	1515		
No. of Municipalities	3		
No. of Municipal Corporations	1		
Total Population	3,037,766		
Population Density (per sq. km.)	1182/ sq km		
Male	1,615,663		
Female	1,422,103		
SC Population	318,569 10.48(%)		
ST Population	67180 2.21(%)		

Sex Ratio	940/1000
Literacy rate	31.02 (%)

7.Description of Agro-climatic Zone & major agro ecological situations (based on soil and Topography)

S. No	Agro-climatic Zone	Characteristics
1	Zone-III B	The climate of this zone, lying south of river Ganga is sub-humid, sub-
		tropical monsoon type of climate with a well marked rainy season of four
		months.
2	Zone – II (Naugachhia	The climate of this zone, lying north of river Ganga is Sub-humid,
	Sub-division)	subtropical with well marked rainy season. Climate is ranging from sub
		dry and sub-humid conditions

8.Agro ecological situation

Sl. No.	Agro ecological situation	Characteristics
1.	Diara	Low land Diara is flooded every year for about four months (July - October).
		Medium <i>Diara</i> is generally flooded every year, however, upland <i>Diara</i> flooded twice
		in five years for shorter period (mid Aug – Mid Sept.). Uncertain onset & recession of
		flood causes complete failure of early <i>Kharif</i> crops and only one crop (<i>Rabi</i>) in a year
		is certain
2.	Tal	The Tal lands are basin shaped inundated and water retained for a very short period
		due to fast depletion of soil moisture after recession of flood water, less time is
		available for land preparation and sowing Rabi crops
3.	Alluvial Plains	The land is almost levelled having slope of $0 - 3$ % and the area is suited to
		rice cultivation

9.Soil types

Sl. No.	Soil types	Characteristics
1.	Diara	Light textured, well drained with free CaCO ₃ varying between 3-8 %
2.	Tal	Grey to dark grey in colour, poor in drainage medium to heavy in texture. Slightly to
		moderately alkaline in reaction crack during summer
3.	Alluvial	Grey – Greyish yellow heavy textured soils with cracking
	Plains	

10. Area, Production and Productivity of major crops cultivated in the district

Cereals

Crops	Area (ha.)	Production (MT)	Yield (Kg/ha)
Wheat	46378	52831	1139
Paddy	32351	95831	2962
Maize	46062	155808	3383

Pulses

Crops	Area (ha.)	Production (MT)	Yield (Kg/ha)
Chick pea	4614	3248	704
Lentil	2126	595	280
Urad	2177	1990	914
Moong	1182	427	361

Oilseeds

Crops	Area (ha.)	Production (MT)	Yield (Kg/ha)
Rapeseed/ Mustard	2396	2813	1174
Linseed	563	485	861
Sunflower	260	378	1454

Source: District Agriculture Office, Bhagalpur (2017-18)

Fru	its
	_

Sl. No.	Crop	Area (ha)	Production (MT)	Productivity (MT/ha)
1.	Mango	7204	692760	10.61
2.	Banana	1032	372550	36.09
3.	Lemon	915	64050	8.12
4.	Guava	638	49210	8.71
5.	Litchi	446	32020	9.37

Source : Asst. Director Horticulture Office, Bhagalpur (2017-18)

Vegetables

Sl. No.	Сгор	Area (000, ha)	Production (000, T)
1.	Potato	8.23	150.57
2.	Okra	2.21	29.86
3.	Brinjal	1.71	35.98
4.	Onion	1.64	34.07

Source: Asst. Director Horticulture Office, Bhagalpur (2017-18)

Sl. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Goradih	Goradih	Siyargarh	Nursery of horticultural crops	Connectivity and govt support to rural youth	Marketing
2	Kharik	Kharik	Tulsipur	Litchi and banana	Poor management of orchard and banana crop too	Timely training pruning, management to rejuvenate them, sowing of banana with disease free planting material
3	Kharik	Kharik	Raghopur	Nursery, pointed gourd and other vegetable cultivation	Marketing todistant market	Maintainance of male female raio in pointed gourd, enhance the storability of vegetables, poat harvest management
4	Naugachhia	Naugachhia	Tetri	Nursery, litchi mango and banana crops	Poor management of crops, alternate bearing, sigatoka and panama wilt of banana	Improve the orchard by proper management, control of sigatoka and panama wilt by timely and proper management
5	Gopalpur	Gopalpur	Dharhara	Nursery, mango, litchi and banana	Marketing, poor management of crop, flood	Improvement of orchar by proper management,diversification
6	Sultanganj	Sultanganj	Rashidpur	Nursery and vegetable cultivation	Connectivity and timely seed availability	Seed production of vegetables etc
7	Nathnagar	Nathnagar	Kajraili	Nursery and papaya cultivation	Poor seed availability of papaya market	Seed production of papaya and other vegetable seeds

12. Priority Thrust Areas

Sl. No.	Thrust area
1.	Integrated Crop Management
2.	Rejuvenation and orchard Management
3.	Rainfed Agriculture
4.	Seed production and introduction of high yielding varieties
5.	Small scale fruits and vegetable processing and value addition
6.	Farm mechanization and resource conservation techniques

13. Training programme to be organized (January to December, 2024)

(a) Farmers and farmwomen

Horticulture

			ion	ue	Tantating			No). of	' Part	ticip	ants		
Thematic area	Title of Training	No.	rati	enu	Dete	S	С	S	Т	Oth	er	Total		l
				Date	Μ	F	Μ	F	Μ	F	Μ	F	Т	
Management of orchard	Management of young orchard of mango for better yield	1	2	Off	6- 7/01/2024	4	1	1	1	20	3	25	5	30
Management of young orchard	Management of young orchard of litchi	1	2	Off	9- 10/02/2024	4	1	1	1	20	3	25	5	30
Management of young orchard	Management of young orchard of mango	1	3	On	14- 16/01/2024	4	1	1	1	20	3	25	5	30
Management of young orchard	Management of young orchard of guava	1	2	Off	24- 25/02/2024	4	1	1	1	20	3	25	5	30
Management of young orchard	Training& pruning of guava orchard	1	3	On	24- 26/03/2024	4	1	1	1	20	3	25	5	30
Grading and standardization	Management of bulbous crop potato for better profitability	1	2	Off	30- 31/03/2024	4	1	1	1	20	3	25	5	30
Grading and standardisation	Grading for better marketing and profitability of potato	1	2	Off	12- 13/03/2024	4	1	1	1	20	3	25	5	30
Training and pruning in guava	Training and pruning in guava to harvest winter guava	1	5	On	24- 28/04/2024	4	1	1	1	20	3	25	5	30
Integrated Crop Management	Scientific cultivation of kharif onion for high remuneration	1	2	Off	18- 19/05/2024	4	1	1	1	20	3	25	5	30
Nursery raising of vegetables	Techniques vegetable nursery raising	1	5	On	11- 15/05/2024	4	1	1	1	20	3	25	5	30
Integrated Crop Management	Scientific cultivation of kharif vegetables	1	2	Off	4- 5/05/2024	4	1	1	1	20	3	25	5	30
Management of orchard	Management of litchi orchard	1	2	Off	1- 2/06/2024	4	1	1	1	20	3	25	5	30
Management of orchard	Management of litchi orchard	1	2	Off	8- 9/06/2024	4	1	1	1	20	3	25	5	30
Management of mango orchard	Management of mango orchard to control different insect & pest	1	5	On	15- 19/06/2024	4	1	1	1	20	3	25	5	30

			tion	e	Tontotivo			No). of	' Part	icip	ants		
Thematic area	Title of Training	No.	rati	enu	Doto	S	С	S	Т	Oth	er]	[otal	l
			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Propagation of	Techniques of fruit	1	2	Off	1-	4	1	1	1	20	2	25	5	20
fruit plants	plant Propagation	1	2	OII	2/07/2024	4	1	1	1	20	3	23	3	30
Propagation of	Techniques fruit	1	2	Off	6-	1	1	1	1	20	3	25	5	30
fruit plants	plant Propagation	1	2	OII	7/07/2024	4	1	1	1	20	5	23	5	50
Management of	Management of													
orchard	orchard after	1	2	Off	3-4/8/2024	4	1	1	1	20	3	25	5	30
orenard	harvesting													
Management of	Management of				17-									
orchard	orchard after	1	5	On	21/08/2024	4	1	1	1	20	3	25	5	30
orenard	harvesting of fruits				21/00/2024									
Orchard	Mango orchard				26-									
management	management against	1	2	Off	27/08/2024	4	1	1	1	20	3	25	5	30
	insect-pest				21/00/2021									
Nursery raising	Nursery raising of	1	2	Off	1-	4	1	1	1	20	3	25	5	30
	winter flowers	-	-	011	2/09/2024	Ċ	•	1	-		5	20	5	20
Training and	Training pruning of				5 -									
pruning of	guava for better vield	1	2	Off	6/10/2024	4	1	1	1	20	3	25	5	30
guava	8													
	Scientific cultivation				9 -						_		_	• •
Bulbous crop	of gladiolus for	1	2	Off	10/10/2024	4	1	1	1	20	3	25	5	30
	better remuneration													
Management of	Management of		_		9 -						-		_	• •
potted plants	potted plants for	1	5	On	13/11/2024	4	1	1	1	20	3	25	5	30
r · · · · · · ·	better profit													
Integrated Crop	Scientific cultivation	1	2	Off	24 -	4	1	1	1	20	3	25	5	30
Management	of onion			_	25/11/2024						_	_	_	
	Total	24	65			96	24	24	24	480	72	600	120	720

Animal Science

	Title of Training		Duration	le	Tontotivo			N	o. of	f Part	icip	ants			
Thematic area		No.		enu	Dote	S	SC		Т	Other		Total		1	
				λ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т	
Disease	Treatment of				03-										
management	mastitis in large	2	2	On/	04.01.2024	1	1	1	1	20	2	25	5	20	
	animal	Z	2	Off	22-	4	1	1	1	20	3	23	5	50	
					23.01.2024										
Disease	Management and				01-										
management	control of Parasitic	2	2	\mathbf{r}	On/	02.02.2024	4 1	1	1 1	1	20	2	25	5	30
	diseases in goats	2	2	Off	21-	4	1	1	1	20	5	23	5	50	
					22.02.2024										
Fodder	Application of	2	2	On/	04-	1	1	1	1	20	3	25	5	30	
conservation	urea in straw		2	Off	05.03.2024	+	1	1	1	20	5	23	5	50	

			on	ue	Tontotino			Ν	o. of	f Part	icip	ants		
Thematic area	Title of Training	No.	rati	enu	Dete	S	С	S	Т	Oth	er]	Fota	1
			Du	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
					20-									
					21.03.2024									
Entrepreneur-	composite Fish				01-									
ship	culture	2	2	On/	02.04.2024	4	1	1	1	20	3	25	5	30
development				Off	24-						-			
					25.04.2024									
Disease	Treatment of				02-									
Management	protozoal diseases	2	2	On/	03.05.2024	4	1	1	1	20	3	25	5	30
	in large animal			Off	28-									
Disassa	Managamant &				29.05.2024									
Management	treatment of viral			On/	03-									
wanagement	diseases in goats	2	2	Off	28-	4	1	1	1	20	3	25	5	30
	diseases in goals			OII	29 06 2024									
Disease	Importance of				01-									
Management	immunisation in			On/	02.07.2024									
	cow & buffalo	2	2	Off	22-	4	1	1	1	20	3	25	5	30
					23.07.2024									
Disease	Management of				06-									
Management	uterine prolapsed			On/	7.08.2024	4	1	1	1	20	2	25	~	20
	in buffalo	2	2	Off	27-	4	1	1	1	20	3	25	5	30
					28.08.2024									
Disease	Viral diseases of				02-									
Management	poultry	2	2	On/	3.09.2024	4	1	1	1	20	3	25	5	30
		2	2	Off	26-	-	1	1	1	20	5	25	5	50
					27.09.2024									
Ration	Ration making for				03-									
formulation	cow & buffalo	2	2	On/	04.10.2024	4	1	1	1	20	3	25	5	30
				Off	28-									
D					29.10.2024									
Resource	Integrated farming			On/	04-									
Conservation	system, IPS	2	2	Off	26	4	1	1	1	20	3	25	5	30
					20-									
Breed	Artificial				02-									
Improvement	Insemination (A I)			On/	3 12 2024									
		2	2	Off	26-	4	1	1	1	20	3	25	5	30
				27.12.2022										
	Total	24	24			96	24	24	24	480	72	600	120	720

Agricultural Engineering

			ion	ane	E Tentative			No	o. of	f Par	tici	pants		
Thematic area	Title of Training	No.	rati	enu	Dete	S	C	S	Г	Oth	ner		Total	
			Du	Λ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
	Basic tractor													
	servicing &	01	01	Off	05.01.2024	4	1	1	1	20	3	25	5	30
	maintenance													
	Operation &													
	maintenance of													
	various types of	01	01	Off	06.01.2024	4	1	1	1	20	3	25	5	30
Repair &	Spraying &													
maintenance of	dusting machine													
farm machinery	Basic tractor				19.01.2024 to									
& implements	servicing &	01	02	On	10.01.2024 10	4	1	1	1	20	3	25	5	30
	maintenance				19.01.2024									
	Operation &													
	maintenance of													
	various types of	01	01	On	20.01.2024	4	1	1	1	20	3	25	5	30
	Spraying &													
	dusting machine													
Promotion of		01	02	Off	21.01.2024 to	1	1	1	1	20	3	25	5	30
farm	Awareness of farm	01	02	OII	22.01.2024	-	1	1	1	20	5	25	5	50
mechanization	mechanization &				01 02 2024 to									
for reduce cost	custom hiring	01	02	Off	02.022024	4	1	1	1	20	3	25	5	30
of cultivation					02.02.2021									
Promotion of	Water													
farm	management													
mechanization	through	01	02	Off	24.02.2024	4	1	1	1	20	3	25	5	30
for reduce cost	mechanical													
of cultivation	method													
Installation &	Installation &													
maintenance of	maintenance of	01	02	On	10.03.2024 to	4	1	1	1	20	3	25	5	30
micro irrigation	sprinkler & Drip				11.03.2024									
systems	irrigation system													
Repair &	Knowledge, utility				29.04.2024									
maintenance of	& operation of	01	02	On	to	4	1	1	1	20	3	25	5	30
farm machinery	latest Agril.				30.04.2024									
& implements	Equipment													
Promotion of	A 6.6				11.05.0004									
Tarm	Awareness of farm	01	02	0	11.05.2024	4	1	1	1	20	2	25	F	20
for reduce cost	mechanization &	01	02	Un		4	1	1	1	20	3	23	3	30
of oultivation	custom niring				12.05.2024									
Dromotion of	Operation of Disc				24 05 2024									
farm	Planter & Drum	01	02	Off	24.03.2024	1	1	1	1	20	2	25	5	30
mechanization	ander for direct	01	02	OII	25 05 2024	4	1	1	1	20	5	23	5	50
meenamzation	pecuci ili ullect				25.05.2024		1							

			ion	ıe	Tontativo	No. of Participants										
Thematic area	Title of Training	No.	rati	enu	Dete	S	2	S	Г	Oth	ıer		Total			
			Du	Λ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т		
for reduce cost	sowing of rice				08.06.2024											
of cultivation		01	02	Off	to	4	1	1	1	20	3	25	5	30		
					09.06.2024											
	Repair &															
	maintenance of	01	02	0	22.06.2024 to	4	1	1	1	20	2	25	_	20		
	zero tillage	01	02	On	23.06.2024	4	1	1	1	20	3	25	5	30		
	machine															
					06.07.2024											
Repair &		01	02	Off	to	4	1	1	1	20	3	25	5	30		
maintenance of	Use, maintenance				07.07.2024											
farm machinery	& advantage of				21.07.2021											
& implements	power uner	01	02	On	to	4	1	1	1	20	3	25	5	30		
					22.07.2024											
	Operation &															
	maintenance of				17.09.2024 to											
	various types of	01	02	Off	17.08.2024 10	4	1	1	1	20	3	25	5	30		
	Spraying &				18.08.2024											
	dusting machine															
Installation &	Installation &															
maintenance of	maintenance of	01	02	On	23.08.2024 to	4	1	1	1	20	2	25	5	30		
micro irrigation	sprinkler & Drip	01	02	Oli	24.08.2024	4	1	1	1	20	5	23	5	50		
systems	irrigation system															
Promotion of	Sowing of Rabi	01	02	Off	07.09.2024 to	4	1	1	1	20	3	25	5	30		
farm	crop through	01	02	OII	08.09.2024	т	1	1	1	20	5	25	5	50		
mechanization	Zero tillage/				13 09 2024 to											
and RCT	Raise bed machine	01	02	On	14 09 2024	4	1	1	1	20	3	25	5	30		
	& their calibration				11.09.2021											
Use of plastic in	New advance in				12.10.2024 to											
farming	low cost poly	01	02	Off	13.10.2024	4	1	1	1	20	3	25	5	30		
practices	house/ tunnel													<u> </u>		
	Knowledge of post				18.10.2024											
Post-harvest	-harvest equipment	01	02	On	to	4	1	1	1	20	3	25	5	30		
technology	its utility &				19.10 2024											
	operation													ļ		
Promotion of	Sowing of Rabi															
farm	crop through				08.11.2024 to					• •	_		_			
mechanization	Zero tillage/	01	02	Off	09.11.2024	4	1	1	1	20	3	25	5	30		
and RCT	Raise bed machine															
X (11) (1) (2)	& their calibration												<u> </u>	<u> </u>		
Installation &	Installation &			6	23.11.2024						_	a	_			
maintenance of	maintenance of	01	02	On	to	4	1	1	1	20	3	25	5	30		
micro irrigation	mini sprinkler				24.11.2024											

			ion	ıe	Tontotivo			No	o. of	' Par	tici	pants		
Thematic area	Title of Training	No.	rat	ent	Dete	S	2	S	Г	Oth	ıer		Total	
			nq	Λ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
systems	system													
Repair and maintenance of farm machinery & implements	Service & maintenance of pump set	01	02	Off	01.12.2024 to 02.12.2024	4	1	1	1	20	3	25	5	30
Promotion of farm mechanization for reduce cost of cultivation	Knowledge, utility & operation of latest Agril. Equipment	01	02	On	15.12.2024 to 16.12.2024	4	1	1	1	20	3	25	5	30
	Total	25	47			100	25	25	25	500	75	625	125	750

Agronomy

Thomatic			ion	e	Tontotivo			No). of	f Paı	tici	ipan	ts	
Thematic	Title of Training	No.	rati	enu	Data	S	С	S	Т	Oth	ler]	Гota	1
area			Du	Ň	Date	Μ	F	M	F	Μ	F	Μ	F	Τ
Seed	Quality seed production	01	02	ON/OFF	06.03.2024	2	1	1	1	22	3	25	5	30
production	techniques of zaid crops				to								ĺ	
					07.03.2024								ĺ	
Seed	Seed production of rabi	01	02	ON/OFF	12.03.2024	2	1	1	1	22	3	25	5	30
production	field Crops				to								ĺ	
					13.03.2024								ĺ	
Resource	Improved cultivation of	01	02	ON/OFF	02.04.2024	2	1	1	1	22	3	25	5	30
Conservation	zaid pulse crops with				to								ĺ	
Techniques	RCT				03.04.2024									
Cropping	Suitable cropping system	01	02	ON/OFF	18.04.2024	2	1	1	1	22	3	25	5	30
system	for the enhance of				to								ĺ	
	profitability				19.04.2024									
Resource	Rice crop establish with	01	02	ON/OFF	06.05.2024	2	1	1	1	22	3	25	5	30
Conservation	direct seeded rice				to								ĺ	
Techniques					07.05.2024								ĺ	
Integrated	Role of Nutrient expert,	01	02	ON/OFF	14.05.2024	2	1	1	1	22	3	25	5	30
Crop	Crop manager and green				to								ĺ	
Management	seeker for the enhance of				15.05.2024								ĺ	
	profitability												ĺ	
Integrated	Nutrient Management in	01	02	ON/OFF	10.06.2024	2	1	1	1	22	3	25	5	30
Nutrient	field crops for organic				to								ĺ	
Management	farming				11.06.2024									
Integrated	Brown manuring in rice	01	02	ON/OFF	18.06.2024	2	1	1	1	22	3	25	5	30
Nutrient	crop				to									

Thomatic			ion	le	Tontotivo			No). of	f Pai	tici	ipan	ts	
Thematic	Title of Training	No.	rati	enu	Doto	S	С	S	Т	Oth	ler	r .	Fota	1
alea			Du	λ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Management					19.06.2024									
Resource	RCT in Paddy	01	02	ON/OFF	11.06.2024	2	1	1	1	22	3	25	5	30
Conservation					to									
Techniques					12.06.2024									
Seed	Seed production of	01	02	ON/OFF	14.06.2024	2	1	1	1	22	3	25	5	30
production	Kharif field crops				to									
					15.06.2024									
Weed	Weed control in	01	02	ON/OFF	18.06.2024	2	1	1	1	22	3	25	5	30
control	transplanted/direct seeded				to									
	rice				19.06.2024									
Integrated	Bio-fertilizer – the tool	01	02	ON/OFF	01.07.2024	2	1	1	1	22	3	25	5	30
Nutrient	for present day				to									
Management	Agriculture with special				02.07.2024									
	emphasis to Blue Green													
	Algae (BGA) for													
	transplanted rice													
Weed	Weed management in	01	02	ON/OFF	08.07.2024	2	1	1	1	22	3	25	5	30
Control	crops and cropping				to									
	system				09.07.2024									
Integrated	Key elements for	01	02	ON/OFF	19.08.2024	2	1	1	1	22	3	25	5	30
Crop	enhancing sustainability				to									
Management	of Pulse crops				20.08.2024									
Integrated	Precision resource	01	02	ON/OFF	02.09.2024	2	1	1	1	22	3	25	5	30
Crop	management for				to									
Management	enhancing crop				03.09.2024									
	productivity and quality													
Seed	Quality seed production	01	02	ON/OFF	26.09.2024	2	1	1	1	22	3	25	5	30
production	techniques of Rabi field				to									
	crops				27.09.2024									
Resource	RCT in pulses (lentil,	01	02	ON/OFF	30.09.2024	2	1	1	1	22	3	25	5	30
Conservation	chickpea, pea pigeon pea				to									
Techniques	black gram & green				01.10.2024									
	gram)													
Resource	Scientific cultivation of	01	02	ON/OFF	14.10.2024	2	1	1	1	22	3	25	5	30
Conservation	rabi pulses (lentil,				to									
Techniques	chickpea and pea)				15.10.2024									
	through ZT													
Integrated	Agro-technological	01	02	ON/OFF	17.10.2024	2	1	1	1	22	3	25	5	30
Crop	advancement in				to									
Management	Sugarcane production				18.10.2024									
Resource	Crop establish of cereals	01	02	ON/OFF	24.10.2024	2	1	1	1	22	3	25	5	30
Conservation	crop with ridge bed				to									

Thomatia			ion	le	Tontotivo			No). O	f Paı	tici	ipan	ts	
area	Title of Training	No.	rati	enu	Doto	S	С	S	Т	Oth	ler	r	Гota	1
aita			Du	\mathbf{b}	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Techniques	planting and zero tillage				25.10.2024									
	methods													
Integrated	TPS cultivation technique	01	02	ON/OFF	04.11.2024	2	1	1	1	22	3	25	5	30
Crop					to									
Management					05.11.2024									
Weed	IWM in Rabi crops	01	02	ON/OFF	11.11.2024	2	1	1	1	22	3	25	5	30
Control					to									
					12.11.2024									
Resource	Role of Climate Resilient	01	02	ON/OFF	05.12.2024	2	1	1	1	22	3	25	5	30
Conservation	Agriculture in crop				to									
Techniques	production				06.12.2024									
INM	Liquid fertilizer uses &	01	02	ON/OFF	12.12.2024	2	1	1	1	22	3	25	5	30
	application				to									
					13.12.2024									
	Total	24	48			48	24	24	24	528	72	600	120	720

Plant Protection

Thomatio			on	e	Tontativo			N	0. 0	f Paı	rtici	pant	S	
Inematic	Title of Training	No.	rati	enu	Tentative Data	S	С	S	Т	Oth	ıer	r.	Fota	1
area			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Integrated pest management	Integrated Pest and Disease Management in green gram	т	2	Off/ On	06-07 Mar,2024	2	1	1	1	15	5	18	7	25
Integrated Pest management	Pest management in pumpkin	1	2	Off/ On	15-16 Mar, 2024	2	1	1	1	15	5	18	7	25
Integrated Pest management	Cultural control of insect pest in summer season		2	Off/ On	08-09Apr, 2024	2	1	1	1	15	5	18	7	25
Bio-control of pest and diseases	Importance of bio- pesticides in plant protection		2	Off/ On	14-15 May, 2024	2	1	1	1	15	5	18	7	25
Integrated pest and disease management	Management of Nursery pest and diseases in paddy	II	2	Off/ On	12-13 June, 2024	2	1	1	1	15	5	18	7	25
Integrated pest management	Integrated Pest Management in paddy		2	Off/ On	18,19 June,2024	2	1	1	1	15	5	18	7	25
Integrated Pest management	Pest of stored grain and their management		2	Off/ On	26,27 June,2024	2	1	1	1	15	5	18	7	25
Natural Farming	Preparation and use of Jeewamrit 1,2,3 and	III	2	Off/	10-11 July, 2024	2	1	1	1	15	5	18	7	25

Thomatia			on	le	Tontotivo			N	0. 0	f Paı	rtici	pant	S	
Inematic	Title of Training	No.	rati	nuə	Dete	S	С	S	Т	Oth	ner	r	Fota	l
area			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
	Amrit Jal 1,2,3			On										
Integrated Disease management	Integrated Disease management in paddy		2	Off/ On	12-13 Aug, 2024	2	1	1	1	15	5	18	7	25
Integrated disease management	Disease management in bajra		2	Off/ On	21-22 Aug, 2024	2	1	1	1	15	5	18	7	25
Integrated Pest Management	Pest management of banana		2	Off/ On	4-5 Sept, 2024	2	1	1	1	15	5	18	7	25
Integrated disease management	Disease management in Banana		2	Off/ On	19-20 Sept, 2024	2	1	1	1	15	5	18	7	25
Integrated pest management	Integrated pest in cool season vegetables		2	Off/ On	08-09 Oct, 2024	2	1	1	1	15	5	18	7	25
Integrated disease management	Disease management in cole crops		2	Off/ On	17-18 Oct,2024	2	1	1	1	15	5	18	7	25
Integrated Pest Management	Pest management in maize		2	Off/ On	28,29 Oct,2024	2	1	1	1	15	5	18	7	25
Integrated Disease management	Early and late blight disease of potato and their management		2	Off/ On	12-13 Nov, 2024	2	1	1	1	15	5	18	7	25
Integrated Pest management	Pest management in potato	IV	2	Off/ On	15-16 Nov, 2024	2	1	1	1	15	5	18	7	25
Integrated Pest management	Pest management in pulse crop		2	Off/ On	20-21 Nov, 2024	2	1	1	1	15	5	18	7	25
Integrated Disease management	Disease management in Maize		2	Off/ On	04-05 Dec, 2024	2	1	1	1	15	5	18	7	25
Integrated Pest management	Pest management in okra		2	Off/ On	10-11 Dec, 2024	2	1	1	1	15	5	18	7	25
Organic Farming	Use of bio-pesticides in crops		2	Off/ On	16-17 Dec, 2024	2	1	1	1	15	5	18	7	25
	Total		42			42	21	21	21	315	105	378	147	525

(b) Rural youths

Horticulture

			ion	le	Tontativo			N	o. of	Part	icip	ants		
Thematic area	Title of Training	No.	rati	enu	Doto	S	С	S	Т	Oth	ler]	fota	I
			Du	\mathbf{b}	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Nursery raising	Nursery raising of vegetables for income generation	1	5	On	20- 25/01/2024	2	1	1	1	22	3	25	5	30
Nursery raising	Nursery raising of ornamentals for income generation	1	5	On	10- 15/01/2024	2	1	1	1	22	3	25	5	30
Integrated Crop Management	Scientific cultivation of garma crop	1	5	On	23- 27/03/2024	2	1	1	1	22	3	25	5	30
Plant propagation	Technical knowhow of Propagation of fruit crops	1	7	On	1-7/07/2024	2	1	1	1	22	3	25	5	30
Entrepreneurship development	Raising vegetable nursery	1	5	On	17- 21/08/2024	2	1	1	1	22	3	25	5	30
Entrepreneurship development	Income generation through potted plants	1	7	On	23- 30/12/2024	2	1	1	1	22	3	25	5	30
	Total	6	32			12	06	06	06	132	66	150	30	180

Animal Science

			ion	ıe	Tontotivo			No	. of	Par	tici	pant	S	
Thematic area	Title of Training	No.	rat	ent	Dete	S	С	S	Г	Oth	ner	r	Гota	al
			Du	Λ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Entrepreneurship	Goat farming	1	5	On	05 08 02 2024	4	1	1	1	20	3	25	5	30
development		1	5	Oli	03-08.02.2024	4	1	1	1	20	5	23	5	50
Entrepreneurship	Broiler farming	1	5	On	11 14 03 2024	4	1	1	1	20	3	25	5	30
development		1	5	Oli	11-14.03.2024	4	1	1	1	20	5	23	5	50
Entrepreneurship	Goat farming	1	5	On	13 16 05 2024	1	1	1	1	20	3	25	5	30
development		1	5	Oli	13-10.03.2024	t	1	1	1	20	ר	25	5	50
Entrepreneurship	Value addition of	1	5	On	15 10 07 2024	1	1	1	1	20	3	25	5	30
development	milk & its products	1	5	Oli	13-19.07.2024	4	1	1	1	20	5	23	5	50
Entrepreneurship	Layer farming	1	5	On	14 17 10 2024	4	1	1	1	20	3	25	5	30
development		1	5	Oli	14-17.10. 2024	4	1	1	1	20	5	23	5	50
Entrepreneurship	Para veterinarian	1	5	On	19 21 11 2024	4	1	1	1	20	2	25	5	20
development	training	1	5	UII	10-21.11.2024	4	1	1	1	20	3	23	5	30
	Total	6	30			24	6	6	6	120	18	150	30	180

Agricultural Engineering

Thomatic			on	e	Tontotivo			No). of	' Part	ticip	ants		
Thematic	Title of Training	No.	rati	nuə	Doto	S	С	S	Γ	Oth	er	[Fota l	l
area			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Repair and maintenance of farm machinery & implements	Use, Repair & maintenance of leveler & seeding implements	01	05	On	16.05.2024 to 20.05.2024	4	1	1	1	20	3	25	5	30
Repair and maintenance of farm machinery & implements	Overhauling of diesel/ petrol engine pump set	01	05	On	13.06.2024 to 17.06.2024	4	1	1	1	20	3	25	5	30
Production of small tools & implements	Designing & fabrication of hand operated small tools for income generation	01	05	On	25.07.2024 to 29.07.2024	4	1	1	1	20	3	25	5	30
Production of small tools & implements	Custom hiring of agricultural machinery	01	05	ON	22.08.2024 to 26.08.2024	4	1	1	1	20	3	25	5	30
Repair and maintenance of farm machinery & implements	Use, Repair & maintenance of leveler & seeding implements	01	05	ON	24.10.2024 to 28.10.2024	4	1	1	1	20	3	25	5	30
Production of small tools & implements	Developing skills to manufacturing small hand tools	01	05	ON	14.11.2024 to 18.11.2024	4	1	1	1	20	3	25	5	30
	Total	06	30			24	6	6	6	120	18	150	30	180

Plant Protection

			ion	le				No.	of l	Parti	cipa	ants		
Thematic	Title of Training	No.	ati	nua	Tentative	S	C	S	Т	Ot	her	r	Fota	ıl
area	8		Dui	Ŋ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
	Sustainable Beekeeping			Off/	10-13									
Bee-keeping	and Honey Production	Ι	4	OII/	Jan,	2	1	1	1	15	5	18	7	25
	technique			On	2023									
Mushroom	Mushroom good			Off/	27-30									
production	production technique	III	4	On/	Aug,	2	1	1	1	15	5	18	7	25
production	production technique			Oli	2024									
Mushroom	Mushroom cultivation			Off/	23-26									
Draduction	tachnique	117	4	On/	Sep,	2	1	1	1	15	5	18	7	25
FIGURCHON	teeninque	1 V		On	2024									
Production of	Production of vermi wash		4	Off/	18-21	2	1	1	1	15	5	18	7	25

organic input	and uses in vegetable		On	Dec,									
	crops.			2024									
	Total	16			08	04	04	04	60	20	72	28	100

Agronomy

			ion	le				No	of I	Parti	icipa	ants		
Thematic	Title of Training	No.	rati	nue	Tentative	S	С	S	T	Ot	her]	<u> Fota</u>	ıl
area			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Nutrient	Role of essential nutrients				25.04.2024									
management	and their deficiency	01	04		to	2	1	1	1	22	3	25	5	30
	symptoms in field crops			OFF	26.04.2024									
Resource	Conservation agriculture				20.06.2024									
conservation	concept & adoption	01	04		to	2	1	1	1	22	3	25	5	30
techniques	strategies			OFF	21.06.2024									
Weed control	New advances in weed				09.09.2024									
	management of field crop	01	04		to	2	1	1	1	22	3	25	5	30
				OFF	13.09.2024									
Integrated	Techniques of organic				20.12.2024									
crop	farming	01	04		to	2	1	1	1	22	3	25	5	30
management				ULL	21.12.2024									
	Total	04	16			08	04	04	04	88	12	100	20	120

(c) Extension functionaries

Horticulture

			on	e				No). of	Par	ticij	pants		
Thematic area	Title of Training	No.	rati	enu	Tentative	S	С	S	Т	Ot	her]	Fota	1
			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Management of	Management of													
orchard	orchard through	1	2		06-	1	1	1	1	20	2	25	5	20
	advance techniques for	1	2		07.07.2024	4	1	1	1	20	3	23	5	50
	better yield of mango													
Management of	Management of litchi	1	n	on	00 08 08 2024	4	1	1	1	20	3	25	5	30
orchard	orchard for better yield	1	2	011	09-08.08.2024	4	1	1	1	20	5	23	5	50
Training &	Training and pruning	1	2	on	09-10.09.2024	4	1	1	1	20	3	25	5	30

pruning of guava	for better yield													
orchard														
Integrated Crop	Scientific cultivation	1	2	on	11 12 11 2024	4	1	1	1	20	3	25	5	30
Management	of banana	1	2	on	11-12.11.2024	4	1	1	1	20	5	23	5	50
		4	8			16	4	4	4	80	12	100	20	120

Animal Science

			on	e	T			No	. of	Part	ticip	ants		
Inematic	Title of Training	No.	rati	nue	1 entative	S	С	S	Т	Ot	her]	lota	1
area			Dui	Ň	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Disaster	Various Steps taken during	1	2	on	30-	4	1	1	1	20	3	25	5	30
management	flood/climatic disaster	1	2	OII	31.01.2024	4	1	1	1	20	5	23	5	30
Disease management	Way of transmission of viral diseases, its prevention and control	1	2	on	11- 12.03.2024	4	1	1	1	20	3	25	5	30
Climate change	Effect of Global Warming on animal	1	2	on	06- 17.05.2024	4	1	1	1	20	3	25	5	30
Diseases management	Different types of infectious diseases in animals	1	2	on	07.08.11.2 024	4	1	1	1	20	3	25	5	30
	Total	4	8			16	4	4	4	80	12	100	20	120

Agricultural Engineering

Thematic area	Title of Training	No.	ion	le	Tentative			No	. of	Part	ticip	ants		
			rat	enu	Date	S	С	S	Т	Ot	her]	Fota	1
			Du	Λ		Μ	F	Μ	F	Μ	F	Μ	F	Т
Use of plastic in farming practices	New advance in low cost poly house/ tunnel	01	02	ON	14.03.2024 to 14.03.2024	4	1	1	1	20	3	25	5	30
Installation & maintenance of drip irrigation systems	New advance in drip Irrigation system	01	02	ON	01.06.2024 to 02.06.2024	4	1	1	1	20	3	25	5	30
Promotion of farm mechanization for reduce cost of cultivation	Awareness of custom hiring & farm mechanization	01	02	ON	01.07.2024 To 02.07.2024	4	1	1	1	20	3	25	5	30
Farm mechanization & RCT	New advance in zero tillage seed cum fertilizer machine	01	02	ON	28.09.2024 To 29.09.2024	4	1	1	1	20	3	25	5	30
	Total	04	08			16	4	4	4	80	12	100	20	120

Agronomy

			ion	le				No.	of I	Parti	cipa	ants		
Thematic	Title of Training	No.	rati	nue	Tentative	S	С	S	Т	Ot	her		Гota	ıl
area	8		Dui	Ŋ	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Nutrient	Role of essential nutrients				25.04.2024									
management	and their deficiency	01	02		to	2	1	1	1	22	3	25	5	30
	symptoms in field crops			OFF	26.04.2024									
Resource	Conservation agriculture				20.06.2024									
conservation	concept & adoption	01	02		to	2	1	1	1	22	3	25	5	30
techniques	strategies			ОГГ	21.06.2024									
Weed control	New advances in weed			ON/	09.09.2024									
	management of field crop	01	02		to	2	1	1	1	22	3	25	5	30
				Огг	13.09.2024									
Integrated	Techniques of organic				20.12.2024									
crop	farming	01	02		to	2	1	1	1	22	3	25	5	30
management				OFF	21.12.2024									
	Total	04	08			08	04	04	04	88	12	100	20	120

Plant Protection

			ion	le				No.	of I	Parti	cipa	ants		
Thematic	Title of Training	No.	ati	nua	Tentative	S	С	S	Т	Ot	her	L .	Fota	ıl
area			Dui	Ve	Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Integrated	Integrated pest			Off/	20-21									
nest	management in <i>Kharif</i>	II	2	On/	June,	-	1	1	1	15	5	18	7	25
management	crops			Oli	2024	2								
inanagement	crops.													
Integrated	Integrated pest		~	Off/	22-25	~	1	1	1	1.5	_	10	7	25
pest	management in Rabi	IV	2	On	Oct,	2	1	1	1	15	5	18	/	25
management	crops.				2024									
	Total		04			04	02	02	02	30	10	36	14	50

d. Vocational trainings

Thematic Area*	Title	Duration	No. of]	No. of	' Participa	nts
			Course	SC	ST	Others	Total
Repair and maintenance of farm machinery & implements	Overhauling of diesel/ petrol engine & pump	12	01	02	01	21	25
Entrepreneurship development	ICM (multi layer farming)	5	01	5	-	25	30
Entrepreneurship development	Nursery development of vegetables	5	01	5	-	25	30
Entrepreneurship development	Nursery development of seasonal flowers and ornamentals	5	01	5	-	25	30
Goat Farming	Management Goat Farming	5	01	02	01	21	25

Poultry Farming	Management Poultry Farming	5	01	02	01	21	25
	Total	12	01	02	01	21	25

E. Skill development training Programmes

Sl. No.	Name of the Course	No. of Participants	Sponsored By
1.	Micro Irrigation Technician (RPL)	30	BAMETI, Patna
2.	Agriculture extension service provider (RPL)	30	BAMETI, Patna

Action Plan of ARYA Programme

A. <u>Nursery raising</u>

Name of the Course	Duration	0	thers		SC		ST	Total
	(Days)	Male	Female	Male	Female	Male	Female	Total
Propagation of fruit crops	07	15	10	03	01	01	0	30
Propagation of fruit crops	07	20	05	02	01	02	0	30
Nursery raising of horticultural crops	07	20	05	02	01	02	0	30
Nursery raising of horticultural crops	07	20	05	02	01	02	0	30
Propagation of ornamentals and management of potted plants	07	20	05	02	01	02	0	30
Total		95	30	11	5	9	0	150

a. Establishment/develop 15 more units in distant villages

B. Poultry farming

Name of the Course	Duration	Ot	thers	Ş	SC	1	Total	
	(Days)	Male	Female	Male	Female	Male	Female	TUtal
Broiler farming	05	15	10	03	01	01	0	30
Layer farming	05	20	05	02	01	02	0	30
Hatchery management	07	20	05	02	01	02	0	30
Total		55	20	07	03	05	0	90

C. Fish Farming

Name of the Course	Duration	Ot	thers	;	SC		ST	Total
	(Days)	Male	Female	Male	Female	Male	Female	10181
Composite fish culture	05	15	10	03	01	01	0	30
Nursery management	05	20	05	02	01	02	0	30
Fish seed production technique	07	20	05	02	01	02	0	30
Total		55	20	07	03	05	0	90

14. Frontline demonstration to be conducted*

Sl. No.	Crop/	Thrust Area	Thematic Area	Season	Farming situation
	Enterprises				
1	Wheat	Crop Residue Management	Resource Conservation	Rabi	Irrigated
1		through happy seeder	Technology		
n	Paddy	Weed management through e-	Weed Management	Kharif	Irrigated
2		weeder			
3	Cont	Lower adoption rate of	Disease Management	Kharif/Rabi	-
5	Uoai	immunization			
4	Cattle	Lower adoption rate of	Disease Management	Kharif/Rabi	-
+	Cattle	immunization			
5	Buck	Lack of true breed of goats	Breed Improvement	Kharif/Rabi	-
	Duck				
6	Mango	Insect Incidence, RBC	Integrated Pest Management	Rabi	Irrigated
7	Rajnigandha	Introduction of cut flowers	Integrated Crop Management	Summer	Irrigated
/	cultivation				

Animal Science

SI		Droposod Aroo	Technology	Cost of Cu	ltivation	(Rs.)			No. of farmers / demonstration									
No	Enterprises	(ha)/Unit (No.)	package for	Name Demo Local		SC ST			Г	Ot	ner	Total						
110.		(na)/ Omt (100)	demonstration	of Inputs	Demo	Local	Μ	F	Μ	F	Μ	F	Μ	F	Т			
1	Goat	2000	Immunization	PPR	2000	100	75	50	250	50	450	125	775	225	1000			
1	Ubai	2000	mmumzation	Vaccine	2000	100	15	50	230	50	430	123	115	223	1000			
2	Cottlo	500	Immunization	FMD	500	50	25	25	25	25	150	50	200	100	300			
2	Cattle	500	mmumzation	vaccine	500	50	23	23	23	23	150	50	200	100	300			
3	Buck	06	Breed	Beetle	06		01	01	01	01	02	0	04	02	06			
5	Buck	00	improvement	buck	00	-	01	01	01	01	02	0	04	02	00			

Agriculture Engineering

SI.	Crop & variety/	Proposed Area (ha)	Technology	Parameter (Data) in relation to	Name of	Cost of Cultivation (Rs.)		No. of farmers / demonstration								
No.	Enterprises	nii cu (iiu)	demonstration	technology	Inputs	_		SC		ST		Other		Total		I T
	-			demonstrated		Demo	Local	Μ	F	Μ	F	Μ	F	Μ	F	Т
1	Paddy	2 ha	Weed Management	Field capacity and efficiency of m/c, yield attribute, weed intensity	Seed, Seed treatment	7000/-	8000/-	1	1	1	0	6	1	8	2	10
2	Wheat	2 ha	Resource Conservation Technology	Field capacity and efficiency of m/c, yield attribute, weed intensity	Seed, Seed treatment	12000/-	14000/-	1	1	1	0	6	1	8	2	10

Horticulture

				Parameter	Cost of Cul	tivation	(Rs.)		No.	of fa	rmei	:s / d	emor	istra	tion	
SI	Crop &	Proposed	Technology nackage	(Data) in					С	S	Т	Other		Tota		i
No.	variety	Area (ha)	for demonstration	relation to technology demonstrated	of Inputs	Demo	Local	М	F	М	F	М	F	М	F	Т
1	Mango	100	Spray of Chloropyriphos + cypermethrine1.5ml /lt of water	Insect Incidence and Economics	Chemicals	20000/-		2	0	2	0	16	0	20	0	20
2	Rajnigandha cultivation	0.40	Pranjal variety of bausabour	Profitability	Tubers	10000/-		1	0	1	0	8	0	10	0	10

Agronomy

				Parameter	Cost of Cul	tivation	(Rs.)	No. of farme				rs / demonstration				
SI	Crop &	Proposed	Technology nackage	(Data) in	Nama				SC		T Ot		ther		Total	
No.	variety	Area (ha)	for demonstration	relation to technology demonstrated	of Inputs	Demo	Local	М	F	М	F	Μ	F	М	F	Т
1	Wheat	2 ha	Conservation Agriculture (Happy Seeder)	Yield and Economics	Seed	10000/-		2	0	0	0	5	3	7	3	10
2	Chickpea	1 ha	ZT/Line sowing Chickpea	Yield and Economics	Seed	10000/-		2	0	0	0	5	3	7	3	10

Plant Protection

SI. No	Season	Сгор	Variety	Technology	Area in ha.	No. of Demonstration
1.	Summer	(Pointed Gourd) Cucurbitaceous crop	Existing Farmer's Variety	Pheromone trap for management of fruit fly @ 30 traps/ha	4.0	20
2.	Kharif	Brinjal	Existing Farmer's Variety / Hybrid	Emamectin Benzoate 5 SG for management of Fruit and Shoot borer @ 200 g /ha	4.0	20
2.	Rabi	Mustard	Existing Farmer's Variety	Imidacloprid 17.8 SL for the management of aphid @300ml/ha	4.0	10
			Total		12	50

Extension and Training activities under FLD

					Venue			No). of P	articip	ants			Grand
Activity	Title of Activity	No.	Clientele	Duration	(On/	SC		S	Т	Oth	er	То	tal	Total
					Off)	Μ	F	Μ	F	Μ	F	Μ	F	Total
Training	Pre-FLD farmers training	14	PF	2	ON/OFF	10	4	20	6	350	10	400	20	420
Field day	Field day-cum-crop cutting	7	PF	1	OFF	5	2	10	3	175	5	200	10	210
	Total	21				15	6	30	9	525	15	600	30	630

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

CFLD (2024 – 25)

Сгор	Target	Variety Name	Special Character
Mustard	280 ha	RH – 725	Matures 136 - 143 days
			Tall, Bold seeded and good germination
			Oil Content 29-40%, Lower aphid resistant index
Sesame	20 ha	Sabour Tisi – 1	Resistant to bud fly
			Moderately resistant to rust and alternaria

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

Name of the Crop /	Variety /	Period	Area Details of Production Jan (Acre)					
Enterprise	туре	to December 2024	(Acre)	Type of Produce	Expected Production (quintals)/No.	Cost of inputs (lakh)	Expected Gross income (lakh)	Expected Net Income (lakh)
Mango Plants	Mald Zardalu Bombay	2024	-	Grafted Plant	50000 (No.)	13.00	40.00	27.00
Guava Plants	Allahabad Safeda & L-45	2024	-	Guttae	10000 (No.)	1.50	4.00	2.50
Citrus Plants	Kagji	2024	-	Guttae	5000 (No.)	0.75	2.00	1.25
Fish Seed	Rohu, Katla, Casr etc	2024	-	-	400 (lit.)	2.00	6.00	4.00
Milk, Chicken Duck	- Kadanath	2024	-	-	14000 (lit.) 100 (No.) 50 (No.)	5.00	6.44	1.44
Wheat	HD-2967	2024	2.0 acre	Seed	30 q	0.60	1.20	0.60
Maize	P-3562	2024	1.0 acre	Non- Seed	40 q	0.50	1.0	0.50
Potato	K-Ashoka	2024	1.0 acre	Seed	100 q	1.00	3.00	2.00

16. Soil and water testing

Details	No. of			N	0. 0	f Far	mer	S			No. of	No. of SHC				
	Samples	S	С	S	Г	Oth	ner	Г	Total		Total		Total		Villages	distributed
		Μ	F	Μ	F	Μ	F	Μ	F	Т						
Soil Samples	1000										15	1000				
Total	1000										15	1000				

17. Extension activities

Sl.		No. of		Total	
No.	Activities/ Sub-activities	activities proposed	Male	Female	Total
1.	Field Day	05	160	90	250
2.	Kisan Mela	02	720	180	1000
3.	Kisan Ghosthi	05	330	170	500
4.	Exhibition	02	165	35	200
5.	Workshop	01	0	0	50
6.	Advisory Services	750	840	220	1060
7.	Scientific visit to farmers field	75	165	35	200
8.	Farmers visit to KVK	550	450	100	550
9.	Diagnostic visits	45	370	80	450
10.	Exposure visits	02	40	10	50
11.	Ex-trainees Sammelan	01	30	20	50
12.	Soil health Camp	02	60	40	100
13.	Animal Health Camp	02	60	40	100
14.	Soil test campaigns	02	60	40	100
15.	Celebration of important days (specify)	06	170	130	300
16.	Swatchta Hi Sewa	06	170	130	300
17.	Mahila Kisan Diwas	01			50
18.	Any Other (Specify)	25	250	100	350
	Total	1482	4040	1420	5660

2. On Farm Trials to be conducted*

On Farm Trial : 1 (Animal Science)

I.	Title of the OFT	Assessment of performance of sorted and non-sorted semen straw after AI in Heifer under field conditions.
II.	Thematic Area	Milk production.
III.	Problem diagnosed	Less used of Male calf and high demand of female calf
IV.	Production system	Desired sex (male or female Calf)
	Treatments	Farmer practice : Natural /Artificial Insemination
		Tech. option I: Artificial insemination using frozen female sex sorted
V.		semen
		Tech. option II: Artificial insemination using frozen non sex- sorted
		semen
VI	Monitoring Indicator	Conception rate, Desired sex (male or female Calf), Milk production and
v 1.		B:C ratio
	Source of Technology	NDRI, Karnal, Haryana and Bodmer M1, Janett F, Hässig M, den
VII.	(ICAR/AICRP/SAU/	Daas N, Reichert P, Thun R, Theriogenology. 2005 Oct
	Other, please specify)	15;64(7):1647-55

ON FARM TRIAL- 2 (Animal Science)

Title	Assessment of different management practices in preventing bovine
	mastitis
Problem diagnosed/addressed	High incidence of clinical mastitis, decreased milk yield and Low
	economic return
Major Causes of the problem	Infectious agents and unhygienic management practices
Production system and thematic	Milk production and Disease Management
area	
Details of technologies selected	
for assessment	
Farmer practice	Farmer practices : Use of Antibiotics, Anti-inflammatory for
	treatment against Mastitis
Treatment Options	T.O- I: Vitamin E and selenium supplementation @ 10 ml orally
	daily for last 30 days before calving
	T.O-II : Blanket dry cow treatment (BDCT) Cefoperazone Sodium
	suspension IP 10 ml) Intra mammary each quarter immediately after
	the last milking of lactation +Vitamin E and selenium
	supplementation @ 10 ml orally daily for last 30 days before calving
	orally daily for last 30 days before calving
Source of Technology	GBPUAT, Pantnagar
(ICAR/ AICRP/SAU/other,	
please specify	

Performance indicator to be	Technical : Udder condition, Milk P.H. Milk colour, C.M.T.	
recorded	test	
	Economics : Total Milk production, B.C. Ratio	
No of trial	06	
Detail of critical input	Drugs :i) Vitamin E and selenium	
	ii) Cefoperazone Sodium suspension IP 100 ml	
Cost of individual critical input	TO-1 : Rs. 240/piece	
	TO-2 Rs. 170/100 ml,	
Methodology adopted for	Farmers System Analysis (Participatory Rural Appraisal (PRA)	
problem identification	involving all the stakeholders and farmers)	

ON FARM TRIAL- 3 (Horticulture)

i.	Season	Kharif
ii.	Title of the OFT	Assessment of different bio mulch in mango
iii.	Thematic Area	Management of orchard.
i.	Problem diagnosed	Lack of organic carbon in soil .farmers are not adding bio degradable
1.		mulch
v.	Important Cause	Lots of weed infestation in orchards.
vi.	Production system	Management of orchard
vii.	Micro farming system	Mulching by different organic mulch
viii.	Technology for Testing	Tephrotia and other organic mulch
ix.	Existing Practice	No mulching or some farmer practices inter cropping
	Hypothesis	If suitable bio-mulch are used improved the organic carbon moisture
х.		holding capacity of the orchard that will ultimately improved the
		condition.
xi	Objective(s)	Improvement of orchard conditions that improves the production
л.		system of the orchard.
	Treatments	Farmers' Practices : only intercrop turmeric
X11.		TO ₁ : cover the canopy area of ground by tephrotia
	Critical Insurate	FIO ₂ : cover with canopy area by straw or other bio mulch
X111.	Critical inputs	
X1V.	Unit Size	200 m ²
XV.	No of Replications	10
xvi.	Unit Cost	1500/-
xvii.	Total Cost:	15,000/-
xviii.	Monitoring Indicator	organic carbon in soil, moisture and economics
	Source of Technology	RCER, Ranchi, Plandu
xix.	(ICAR/AICRP/SAU/	
	Other, please specify)	

ON FARM TRIAL- 4 (Horticulture)

i.	Season	Kharif	
ii.	Title of the OFT	Assessment of bio-control agent for management of panama wilt in	
		banana.	
iii.	Thematic Area	Management of orchard.	
:	Problem diagnosed	Farmers do not manage in very early stage of plantation of banana to	
1v.		manage panama wilt.	
v.	Important Cause	Used of infected planting material.	
vi.	Production system	Management of orchard.	
vii.	Micro farming system		
	Technology for Testing	ICAR fusicont and Sabour Trichoderma - 1 against the panama	
VIII.		wilting in banana	
ix.	Existing Practice	Indiscriminate use of chemical and not reliable source	
X.	Hypothesis	If disease management starts in very early stage of plantation spread	
		management is easy.	
vi	Objective(s)	Cultivate panama wilt crop so that fetch higher profitability.	
лі.			
	Treatments	Farmers' Practice: Tissue culture plant.	
xii.		Technology option 1: ICAR fusicont	
		Technology option 2: Sabour Trichoderma - 1.	
xiii.	Critical Inputs	ICAR Fusicont, Sabour trichoderma -1 etc	
xiv.	Unit Size	200 m ²	
XV.	No of Replications	10	
xvi.	Unit Cost	1500/-	
xvii.	Total Cost:	15,000/-	
	Monitoring Indicator	(i) disease incidence	
xviii.		(ii) yield	
		(iii) economics	
	Source of Technology	CISH, Lucknow	
xix.	(ICAR/AICRP/SAU/		
	Other, please specify)		

On Farm Trial – 5 (Agril. Engg.)

- i. **Topic:** Assessment of Multi crop planter for sowing of pulses in different field condition.
- ii. **Thematic area and production system:** Farm mechanization & RCT and Rice- wheat production system
- iii. **Problem identified:** Farmers using broadcasting method for sowing of pulses with reduced production.
- iv. **Hypothesis:** The proposed machine will improve the farm income.
- v. Details of technologies selected for assessment/refinement:
 - **Farmers practice:** Broad casting in tilled condition
 - Technology option I: Sowing with Zero tillage Multi crop planter (No till condition)
 - **Technology option II:** Sowing with Multi crop planter (Tilled condition)
- vi. Source of technology: PAU, Ludhiana
- vii. No. of Replication: 10
- viii. Plot Size: 2000 meter square
- ix. Critical Input: Machine operation cost, seed, seed treatment cost, weedicide etc
- x. Cost of Critical input: Rs. 4000/-
- xi. Total Cost of intervention: Rs. 24000/-
- xii. Performance indicator: Yield, Yield attributes, economics and machine effective field capacity & efficiency
- xiii. Involvement of Scientists: Er. Pankaj Kumar, Dr. A. K. Maurya and Dr. A. K. Sinha

On Farm Trial – 6 (Agril. Engg.)

- i. **Topic:** Assessment of Happy Seeder Machine for wheat sowing under crop residue management.
- ii. **Thematic area and production system:** Farm mechanization & RCT and Rice- wheat production system
- iii. **Problem identified:** Straw burning after combine harvesting due to high labour cost.
- iv. **Hypothesis:** The proposed machine will increase the nutrient status of soil & improve the farm income.
- v. Details of technologies selected for assessment/refinement:

Farmers practice: Broad casting in tilled conditionTechnology option – I : Sowing with Happy Seeder incorporating the crop residueTechnology option – II : Removal of crop residue and sowing with Zero Till drill

- vi. Source of technology: PAU, Ludhiana
- vii. No. of Replication: 06
- viii. Plot Size: 2000 meter square
- ix. Critical Input: Machine operation cost, seed, seed treatment cost, weedicide etc
- x. Cost of Critical input: Rs. 4000/-
- xi. Total Cost of intervention: Rs. 24000/-
- xii. Performance indicator: Yield, Yield attributes, economics, machine effective field capacity & efficiency and nutrient status of soil
- xiii. Involvement of Scientists: Er. Pankaj Kumar, Dr. A. K. Maurya and Dr. A. K. Sinha

ON FARM TRIAL- 7 (Agronomy)

Topic:	Assessment of different crop establishment methods of
1	Direct Seeded Rice (DSR)
Thematic area:	NRM
Problem identified:	Depletion of ground water table, labour shortage and
	greenhouse gas emission
Background:	Direct seeded rice (DSR) cultivation is the most feasible
	alternative approach to puddle transplanted rice (PTR) in
	India, allowing to saving water (upto 20%), overcome the
	labour requirement and mitigates the greenhouse emission.
Hypothesis:	All treatment has same yield.
Details of technologies selected for	• Farmers' Practice:CT PTR
assessment/refinement:	• Tech. Option I:Dry DSR
	• Tech. Option II: Vattar DSR
	• Tech. Option III: ZT DSR
Source of technology:	CSISA, IRRI
No. of Replication:	5
Plot Size:	200 m ² each plot
Critical Input:	Seeds, herbicides and display board
Cost of Critical input:	Rs 5500.00
Performance indicator:	Technical Observation
	✓ No. of effective tillers per m2
	\checkmark No. of grains per spike
	✓ Test weight (g)
	✓ Economic yield (q/ha)
	✓ Straw yield (q/ha)
	✓ Biological yield (q/ha)
	✓ Harvest index (%)
	Economic indicator
	\checkmark Cost of cultivation (Rs/ha)
	✓ Gross return (Rs./ha)
	✓ Net return (Rs./ha)
	✓ B:C ratio
	Soil parameters
	Initial and after harvest of the crop
	• pH
	• Organic carbon (OC)
	• Available Nitrogen (N)
	• Available Phosphorous (P)
	• Available Potassium (K)

ON FARM TRIAL-8 (Agronomy)

Topic:	Assessment of different herbicide on weed flora and yield
-	in Rabi maize
Thematic area:	Integrated Weed Management
Problem identified:	Low yield of Rabi maize due to weed infestation
Background:	Near about 27-60% yield losses of maize crop due to
	weeds. Atrazine is commonly used by the farmers for weed
	control in maize as pre-emergence herbicide; it is not
	effective against some of the weeds, both grass, and
	broadleaf weeds as well as the sedge <i>Cyprus rotundus</i> .
Hypothesis:	If suitable herbicide use at optimum time, yield losses of
	maize can be minimize.
Details of technologies selected for	• Farmers' Practice: Atrazine @ 750 g a.i./ha as
assessment/refinement:	Pre/Post emergence
	• Tech. Option I:Tembotrione 120 g a.i./ha at early post-
	emergence (20 DAS)
	• Tech. Option II: Tembotrione 120 g a.i./ha + Atrazin
	625 g a.i./ha at 20 DAS
Source of technology:	IIMR, Ludhiana and ICAR-DWR, 2023
No. of Replication:	7
Plot Size:	200 m ² each plot
Critical Input:	Herbicides and display board
Cost of Critical input:	Rs 10,000.00
Performance indicator:	Technical Observation
	\checkmark Yield (q/ha)
	✓ Weed population/ m^2 at 40-50 DAS
	Veed dry wt. (g/m^2) at 40-50DAS
	✓ Cob length
	✓ Number of cobs per plant
	 Number of grains per cob
	✓ Grain weight per cob
	✓ 100 grain weight
	• Economic indicator
	✓ Gross return (Rs./ha)
	✓ Net return (Ks./ha)
	\checkmark B:C ratio

ON FARM TRIAL- 9 (Plant Protection)

- i. Topic: Management of BPH in Paddy
- ii. Thematic area: IPM
- iii. **Problem identified:** Low yield of paddy
- iv. **Background:** Rice BPH has emerged as a serious Pest in rice production worldwide. The Pest is characterized by the drying of paddy crop due to toxin produced by it. It causes considerable losses in terms of grain yield.
- v. **Hypothesis:** If suitable chemical insecticides use at optimum time, yield and quality of grain of paddy can be minimize.
- vi. Details of technologies selected for assessment/refinement:
 - Farmers' Practice:(Bleaching powder, Kerosene oil and Kerosene oil with fire in night)
 - Tech. Option I: Flonicamid 50% WG (150 g/ha)
 - Tech. Option II: Dinotefuran 20% SG (150- 200 g/ha)
- vii. Source of technology: NCIPM 2023

viii. No. of Replication: 8

- ix. **Plot Size:** 400 m² each plot
- x. Critical Input: Insecticides
- xi. Cost of Critical input: Rs 3700/-
- xii. **Performance indicator:**
 - Technical Observation
 - a. Pest incidence
 - **b.** No. of hoppers per hill
 - **c.** Yield (q/ha)
 - Economic indicator
 - 1. Gross return (Rs./ha)
 - 2. Net return (Rs./ha)
 - 3. B:C ratio

ON FARM TRIAL -10 (Plant Protection)

- i. **Topic:** Management of whitefly in green gram.
- ii. Thematic area: IPM
- iii. Problem identified: Low yield
- iv. Background: Whitefly is a very serious pest of green gram. Whiteflies weaken plants by sucking vital sap, hindering growth, development, and pod formation. Studies report yield losses ranging from 10% to 30% due to direct feeding alone. Whiteflies serve as vectors for numerous plant viruses, including the devastating Mungbean Yellow Mosaic Virus (MYMV). MYMV infection can cause stunting, yellowing, leaf distortion, and even complete crop failure, leading to potential yield losses of 50% to 80%.
 - v. **Hypothesis:** If suitable pesticide use at optimum time, yield losses of green gram can be minimize.
- vi. Details of technologies selected for assessment/refinement:
 - d. Farmers' Practice: No Pesticide
 - e. Tech. Option I: Seed treatment with Thiamethoxam 30% FS@ 10ml/kg seeds
- vii. Tech. Option II: Thiamethoxam 25% WG @ 100g/ha
- viii. Source of technology: Tamilnadu Agricultural University, Coimbatore
- ix. No. of Replication: 8
- x. **Plot Size:** 400 m² each plot
- xi. Critical Input: Pesticides
- xii. Cost of Critical input: Rs 1500/-
- xiii. **Performance indicator:**
 - Technical Observation
 - ✓ Pest incidence
 - ✓ No. of whitefly/ Plant
 - ✓ Yield (q/ha)
 - Economic indicator
 - ✓ Gross return (Rs./ha)
 - ✓ Net return (Rs./ha)
 - ✓ B:C ratio