ANNUAL ACTION PLAN
2023
(January-December)

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KRISHI VIGYAN KENDRA, HALSI, LAKHISARAI - 811306

Annual Action Plan January, 2023 to December, 2023

CONTENTS

Action Plan (2023)

Name of the KVK : **Krishi Vigyan Kendra, Halsi, Lakhisarai**
Name of host organization : Bihar Agricultural University, Sabour

1. Training programme to be organized (January, 2023 to December, 2023)
Farmers and Farm Women

S.no.	Discipline	Month	Thematic area	Course title	Course No.	Duration (days)	No. of participants			
							SC	ST	Others	Total
1	Plant Breeding & Genetic	Jan.	Seed Production	Seed production of green gram & cow pea	2	2	6	-	19	25
2	Plant Breeding & Genetic	Feb.	Seed Production	Seed production of green gram	2	2	6	-	19	25
3	Plant Breeding & Genetic	Mar.	Seed Production	Seed production of green gram	2	2	6	-	19	25
4	Plant Breeding & Genetic	Apr	Seed Production	Seed Production of Rice & Pigeonpea	1	2	0	-	22	22
5	Plant Breeding & Genetic	May	Seed Production	Seed Production of Rice & Pigeonpea	2	2	6	-	19	25
6	Plant Breeding & Genetic	May	Seed Production	Seed Production of Rice & Pigeonpea	2	2	6	-	19	25
7	Plant Breeding & Genetic	June	Seed Production	Seed Production of Rice & Pigeonpea	2	2	6	-	19	25
8	Plant Breeding & Genetic	June	Seed Production	Seed Production of Rice, Pigeonpea & blackgram	2	2	6	-	19	25
9	Plant Breeding & Genetic	July	Seed Production	Seed Production of Rice, Pigeonpea & blackgram	2	2	6	-	19	25
10	Plant Breeding & Genetic	July	Seed Production	Seed Production of Rice, Pigeonpea & blackgram	2	2	6	-	19	25
11	Plant Breeding & Genetic	Aug	Seed Production	Seed Production of Rice, Pigeonpea & blackgram	2	2	6	-	19	25
12	Plant Breeding & Genetic	Aug	Seed Production	Seed Production of Pigeonpea	1	2	6	-	19	25
13	Plant Breeding & Genetic	Sept.	Seed Production	Seed Production of Rapeseed and Mustard, Lentil, Gram	2	2	6	-	19	25
14	Plant Breeding & Genetic	Sept.	Seed Production	Seed Production of Lentil & Gram	2	2	6	-	19	25
15	Plant Breeding & Genetic	Oct.	Seed Production	Seed Production of Lentil, gram & wheat	2	2	6	-	19	25
16	Plant	Oct.	Seed Production	Seed Production of	2	2	6	-	19	25

	Breeding & Genetic			Lentil, gram & wheat						
17	Plant Breeding & Genetic	Oct	Seed Production	Seed Production of Rajma & French bean	2	2	6	-	19	25
18	Plant Breeding & Genetic	Nov.	Seed Production	Seed Production of Lentil, gram & wheat	2	2	6	-	19	25
19	Plant Breeding & Genetic	Nov.	Seed Production	Seed Production of Lentil, gram & wheat	2	2	6	-	19	25
20	Plant Breeding & Genetic	Dec.	Vermi compost	Production of vermin compost & organic cultivation	2	2	6	-	19	25
21	**Agronomy**	Jan	Weed Management	Weed Management in wheat	1	2	5	-	15	20
22	Agronomy	Feb	Water management	Micro irrigation system in pulsed	1	2	5	-	15	20
23	Agronomy	Feb	ICM	Scientific method of summer moong	1	2	5	-	15	20
24	Agronomy	March	Cropping system	Organic farming	1	2	5	-	15	20
25	Agronomy	March	Cropping system	Summer ploughing for better soil health	1	2	5	-	15	20
26	Agronomy	March	Production of organic inputs	Green manuaring for better soil health	1	2	5	-	15	20
27	Agronomy	April	Crop Diversification	Scientific method of sunflower cultivation	1	2	5	-	15	20
28	Agronomy	April	Integrated Farming	Importance of IFS for higher Income	1	2	5	-	15	20
29	Agronomy	May	Nursery Management	Nursery management for higher Paddy cultivation	1	2	5	-	15	20
30	Agronomy	June	Weed management	Integrated weed management in Paddy crops	1	2	5	-	15	20
31	Agronomy	June	RCT	Direct seeding method of Rice	1	2	5	-	15	20
32	Agronomy	July	Integrated nutrient management	Importance of BGA &Azolla in paddy cultivation	1	2	5	-	15	20
33	Agronomy	July	ICM	Scientific method of paddy cultivation	1	2	5	-	15	20
34	Agronomy	Aug	ICM	Package and practice Pigeonpea cultivation	1	2	5	-	15	20
35	Agronomy	Aug	Weed Management	Weed management in Maize	1	2	5	-	15	20
36	Agronomy	Sep	ICM	Improved package and practices of Rapeseed & Mustard cultivation	1	2	5	-	15	20
37	Agronomy	Sep	INM	Use of azotobacter in wheat	1	2	5	-	15	20

38	Agronomy	Oct	Weed management	Zero tillage method of wheat cultivation	1	2	5	-	15	20
39	Agronomy	Oct	ICM	Scientific method of potato cultivation	1	2	5	-	15	20
40	Agronomy	Nov	Integrated Nutrient management	INM in wheat crops	1	2	5	-	15	20
41	Agronomy	Nov	INM	Importance of Rhizobium culture and PSB in Lentil	1	2	5	-	15	20
42	Agronomy	Dec	ICM	Late shown methods of wheat cultivation	1	2	5	-	15	20
43	Agronomy	Dec	Water management	Irrigation management in wheat	1	2	5	-	15	20
44	Agronomy	Dec	Fodder production	Barseem cultivation for green fodder	1	2	5	-	15	20
45	**Hort.**	Jan	INM	Integrated Nutrient Mgt. in Onion	2	2	8	-	32	40
46	Hort.	Jan	Cultivation of veg.	Scientific cultivation of capsicum	1	1	5	-	15	20
47	Hort.	Jan	Training & pruning	Training & pruning of fruits crop (citrus, base)	1	1	4	-	16	20
48	Hort	Feb	Cultivation of veg.	Scientific cultivation of cow pea & Okra	2	1	10	-	30	40
49	Hort	Feb	Processing & value addition	Processing & value addition of fruit & vegetable crops	1	2	5	-	15	20
50	Hort.	Mar	Yield increment	Use of hormones in fruits & vegetable cultivation	1	1	5	-	15	20
51	Hort.	Mar	Fruit production	Crop regulation technique in Guava	2		10	-	30	40
52	Hort	April	Layout and Mgt. of orchards	Layout and management of mango and guava orchards	2	2	6	-	34	40
53	Hort.	April	Cultivation of vegetables	Scientific cultivation of Cucurbits.	2	2	10	-	30	40
54	Hort.	May	Cultivation of vegetable	Scientific cultivation of Onion	2	1	6	-	34	40
55	Hort.	May	Medicinal and Aromatic plants	Production and management of Satawar and Mentha	2	2	10	-	40	50
56	Hort.	May	High value vegetable production	Production technology of Elephant foot yam (Ol) and French bean. broccoli and	2	2	8	-	40	48

				baby corn etc.						
57	Hort.	June	Nursery raising	Nursury raising of solonaceous vegetable crops	2	2	6	-	34	40
58	Hort.	June	Yield increment	Use of plant growth regulator in enhancement of vegetable yield	1	2	5	-	15	20
59	Hort.	June	Plant propagation technique	Propagation technique of major fruit crops.	2	1	10	-	30	40
60	Hort.	July	Cultivation of fruit	Scientific cultivation mango/ Guava	2	2	10	-	40	50
61	Hort.	July	Cultivation of vegetables	Scientific cultivation of Tomato	1	1	5	-	15	20
62	Hort.	July	Plant propagation technique	Propagation technique of major fruit crops.	2	1	10	-	30	40
63	Hort.	Aug	Cultivation of fruit	Scientific cultivation of Papaya & Guava	2	1	8	-	32	40
64	Hort.	Aug	Nursery raising	Nursery raising of cole crops (Cauliflower)	2	1	10	-	30	40
65	Hort.	Sept.	Cultivation of veg.	Scientific cultivation of early cauliflower	2	1	10	-	30	40
66	Hort.	Sept.	INM	Integrated Nutrient Mgt. in Solanaceous crops	1	1	5	-	15	20
67	Hort.	Sept.	Protective cultivation	Protected cultivation of capsicum and tomato	1	1	5	-	15	20
68	Hort.	Oct.	INM	Micro nutrient management in Fruit plant	2	1	8	-	42	50
69	Hort.	Oct.	Export potential of ornamental plants	Scientific cultivation of Marigold and their export potential	1	1	5	-	15	20
70	Hort.	Oct.	Cultivation of veg.	Scientific cultivation of early potato/pea/carrot	1	2	5	-	15	20
71	Hort.	Nov.	Production & Mgt. of tuber crops	Scientific cultivation & Production Mgt. of potato	2	1	10	-	30	40
72	Hort.	Nov.	Nursery raising	Nursery raising of onion crops	2	1	10	-	30	40
73	Hort.	Dec.	Protective cultivation	Cultivation of veg. under poly tunnel	2	1	6	-	34	40
74	Hort.	Dec.	INM	Integrated nutrient Mgt in fruit crops	1	1	4	-	16	20
75	Hort.	Dec.	Weed management	Scientific cultivation of onion & weed management	2	2	10	-	30	40

76	Home Sci.	Jan	Gender mainstreaming through SHGs and capacity building	SHGs: A boon for rural women	1	2	5	-	15	20
77	Home Sci.	Jan	Minimization of nutrient loss in processing	Techniques of preventing nutrient loss during cooking process	1	2	5	-	15	20
79	Home Sci.	Jan	Enterprise development and income generation	Mushroom Cultivation	1	2	5	-	15	20
80	Home Sci.	Feb	Design & development of low/minimum cost diet	Preparation of low cost diet	1	2	5	-	15	20
81	Home Sci.	Feb	Household food security by kitchen gardening and nutrition gardening	Nutritional garden technique and human health	1	2	5	-	15	20
82	Home Sci.	Feb	Enterprise development & Income generation	Techniques of tie and dye	1	2	5	-	15	20
83	Home Sci.	March	Household food security by kitchen gardening and nutrition gardening	Importance of kitchen gardening for human health	1	2	5	-	15	20
84	Home Sci.	March	Gender mainstreaming through SHGs and capacity building	SHGs: importance and operation	1	2	5	-	15	20
85	Home Sci.	March	Enterprise development & Income generation	Mushroom cultivation and its value addition	1	2	5	-	15	20
86	Home Sci.	Apr	Household food security by kitchen gardening and nutrition gardening	Importance of kitchen gardening for human health	1	2	5	-	15	20
87	Home Sci.	Apr	Storage loss minimization technique	Home scale methods of safe grain storage	1	2	5	-	15	20
88	Home Sci.	Apr	Enterprise development and income generation	Preparation of chips, Badi & Papad	1	2	5	-	15	20
89	Home Sci.	May	Minimization of nutrient loss in processing	Prevention of nutrient loss during cooking process	1	2	5	-	15	20
90	Home Sci.	May	Woman and child care	Health and nutritional care of	1	2	5	-	15	20

				pregnant women & children						
91	Home Sci.	May	Value addition	Preservation of seasonal fruits and vegetables	1	2	5	-	15	20
92	Home Sci.	June	Gender mainstreaming through SHGs capacity building	Formation & functions of SHGs	1	2	5	-	15	20
93	Home Sci.	June	Designing & development of high nutrient diet	Preparation of high nutrient efficient diet	1	2	5	-	15	20
94	Home Sci.	July	Minimization of nutrient loss in processing	Prevention of nutrient loss during cooking process	1	2	5	-	15	20
95	Home Sci.	July	Location specific drudgery reducing technology	Implements for drudgery reduction	1	2	5	-	15	20
96	Home Sci.	July	Design & development of low/minimum cost diet	Preparation of low cost diet for children	1	2	5	-	15	20
97	Home Sci.	Aug	Household food security gardening & nutrients gardening	Importance of nutritional garden for human health	1	2	5	-	15	20
98	Home Sci.	Aug	Women & Child care	Health & nutritional care of pregnant women & child	1	2	5	-	15	20
99	Home Sci.	Sept.	Designing & development for high nutrient efficient diet	Preparation of high nutrient efficient diet	1	2				
100	Home Sci.	Sept.	Women & Child care	Health & nutritional care of pregnant women & child	1	2	5	-	15	20
101	Home Sci.	Sept.	Rural Craft	Basic stitches of Embroidery	1	2	5	-	15	20
102	Home Sci.	Oct	Household food security by kitchen gardening and nutrition gardening	Importance of kitchen gardening for human health	1	2	5	-	15	20
103	Home Sci.	Oct	Minimization of nutrient loss in processing	Prevention of nutrient loss during cooking process	1	2	5	-	15	20
104	Home Sci.	Oct	Enterprise development and income generation	Mushroom Cultivation	1	2	5	-	15	20
105	Home Sci.	Nov.	Women & Child care	Health & nutritional care of	1	2	5	-	15	20

				pregnant women & child						
106	Home Sci.	Nov.	Location specific drudgery reducing technology	Implements for drudgery reduction for households, agricultural and dairy activities	1	2	5	-	15	20
107	Home Sci.	Dec.	Storage loss minimization technique	Home scale methods of safe grain storage	1	2	5	-	15	20
108	Home Sci.	Dec.	Value addition	Preservation of winter vegetables	1	2	5	-	15	20
109	Home Sci.	Dec.	Enterprise Development	Mushroom cultivation and its value addition			5	-	15	20
110	Plant Protection	Jan.	IDM	Management of early & late blight in Potato & Tomato	1	2	5		20	25
111	Plant Protection	Jan.	IDM	IDM in Rapeseed & Mustard	1	2	5	-	20	25
112	Plant Protection	Feb.	IPM	IPM in Onion	2	2	5	-	20	25
113	Plant Protection	Feb.	IDM	IDM in Onion	2	2	6	-	19	25
114	Plant Protection	Mar	IPM	IPM in Summer Green Gram	2	2	6	-	19	25
115	Plant Protection	Mar	IPM	IPM in Orchard	2	2	6	-	19	25
116	Plant Protection	April	IPM	IPM of Summer Veg.	2	2	5	-	20	25
117	Plant Protection	April & May	IPM	Scientific & safe storage of cereal and pulses	2	2	6	-	19	25
118	Plant Protection	May	IDM	Integrated pest and disease mgt. in orchard	1	2	6	-	19	25
119	Plant Protection	May	IPM	Integrated insect pest management of summer cucurbitaceous vegetable	1	2	5	-	20	25
120	Plant Protection	May	IDM	IDM of summer cucurbitaceous vegetable	1	2	5	-	20	25
121	Plant Protection	June	IPM	Integrated pest management of Okara & Brinjal	1	2	5	-	20	25
122	Plant Protection	June	IDM	Technique and importance of seed treatment in rice	2	2	6	-	19	25
123	Plant Protection	July	IDM	IDM in Rice	2	2	5	-	20	25
124	Plant Protection	July	IPM	IPM in Rice	2	2	5	-	20	25
125	Plant Protection	Aug	IPM	IPM in Rice	2	2	5	-	20	25
126	Plant Protection	Aug	IPM	IPM in Kharif Maize	2	2	6	-	19	25
127	Plant	Aug	IDM	IDM in Kharif	2	2	5	-	20	25

	Protection			Maize						
128	Plant Protection	Sept.	Biocontrol of pest & disease management	Management of Rice pest & Diseases through biogents	1	2	5	-	20	25
129	Plant Protection	Sept.	IPM	Integrated pest & disease management in orchard.	1	2	5	-	20	25
130	Plant Protection	Oct	IDM	IDM in Wheat	1	2	5	-	20	25
131	Plant Protection	Oct	IDM	Importance of seed treatments in rabi crops	2	2	5	-	20	25
132	Plant Protection	Oct	IDM	IDM in pulses	2	2	5	-	20	25
133	Plant Protection	Nov.	IPM	IPM in cole crops	2	2	6	-	19	25
134	Plant Protection	Nov.	IPM	IPM in Pulses	2	2	5	-	20	25
135	Plant Protection	Nov.	IPM	Aphid control in mustard	2	2	6	-	19	25
136	Plant Protection	Dec.	IPM	IPM in Pigeonpea	2	2	6	-	19	25
137	Plant Protection	Dec.	IDM	IDM in winter vegetable	2	2	6	-	19	25
				Total	**193**	**250**	**779**	**0**	**2616**	**3395**

2. Rural Youth

Sl.No.	Discipline	Month	Thematic area	Course title	Course No.	Duration (days)	No. of participants			
							SC	ST	Others	Total
1	Plant Breeding & Genetics	June	Seed Production	Quality seed production of paddy	2	7	1		19	20
2	Plant Breeding & Genetics	Oct	Seed Production	Quality seed production of Wheat/Gram/Lentil	2	7	1		19	20
3	Plant Breeding & Genetics	Feb	Seed Production	Quality seed production of green gram	2	7	1		19	20
4	Agronomy	Sept	Vermiculture	Vermicompost production	1	5	5		15	20
5	Agronomy	Sept	Integrated Farming	Importance of IFS for income generation	1	5	5		15	20
6	Hort.	June	Planting material production	Technique for graft and gooties of fruit plants	1	5	5	-	15	20
7	Hort.	Oct	Seed production	Seed production of potato & onion	1	4	5	-	20	25
8	Hort	Sep	Planting material production.	Technique for vegetable seedlings raising	1	4	5		15	20

9	Home Science	June	Value addition	Preservation of seasonal fruits and vegetables	1	6	5		15	20
10	Home Science	Nov.	Mushroom cultivation	Mushroom Cultivation and its value addition	1	6	5		15	20
11	Plant Protection	Sept.	Mushroom Production	Mushroom cultivation technique	2	6	4	-	16	20
Total					**15**	**62**	**42**	**0**	**183**	**225**

3. Extension functionaries

Sl.No.	Discipline	Month	Thematic area	Course title	Course No.	Duration (days)	No. of participants			
							SC	ST	Others	Total
1	Plant Breeding & Genetics	Oct	Seed Production	Quality seed production of Wheat/Gram/Lentil	1	2	1		19	20
2	Agronomy	June	INM	BGA & Azolla application in Rice cultivation	1	2	1		19	20
3	Agronomy	Nov	RCT	Zero tillage method in wheat	1	2	1		19	20
4	Hort.	Oct	Protected cultivation	Protected cultivation	1	2	5	-	15	20
5	Hort.	Nov.	Rejuvenation of Old fruit orchard	Rejuvenation technique of Old fruit orchard	1	2	5	-	15	20
6	Home Science	Aug	Women & Child care	Health & nutritional care of pregnant women & child	1	2	5		20	25
7	Home Science	Dec.	Household food security by kitchen gardening and gardening	Importance of kitchen gardening for human health	1	2	5		20	25
8	Plant Protection	April	IPM & IDM	IPM & IDM in Summer crops	1	1	6	-	24	30
9	Plant Protection	July-Aug	IPM & IDM	Integrated pest & disease management in Kharif crops	1	1	6	-	24	30
10	Plant Protection	Nov	IPM & IDM	Integrated pest & disease management in Rabi crops	1	1	6	-	24	30
Total					**10**	**17**	**41**	**0**	**199**	**240**

4. Sponsored Training

Thematic area	Course title	Course No	Duration	No. of participants			
				SC	ST	Others	Total
IPM& IDM	IPM in Kharif crops	4	1	100	-	300	400
Productivity enhancement in field	Rabi Mahotsav	3	7	120	-	240	360

crops	• System of Rice intensification • Modern techniques in field crop production maize lentil, Gram, wheat • Seed production of wheat, gram, lentil, Onion						
IPM& IDM	IPM in Rabi crops	4	1	100	-	300	400
Goat Management	Goat farming	7	7	5		15	20
Organic Vegetable Cultivation	Organic Vegetable Cultivation Technique	2	1	08		32	40
RCT	Zero tillage of wheat cultivation	2	1	08		32	40
Total		**22**	**18**	**341**	**0**	**919**	**1260**

5. Vocational Training/ Skill Development Training

Course Title	Sponsoring Agency	Course No.	Duration (Hrs)	No. of participants			
				SC	ST	Others	Total
Quality Seed Grower	Bihar Skill Development	1	240	3		27	30

6. Frontline demonstration

Season	Crop (Variety)	Area (ha) /No	No. of farmer
Rabi	NPV in Tomato	1	12
Rabi	Wheat (sulphosulfuran +meta sulphuran)	10 ha	25
Rabi	Wheat (var. Sabour Shrestha)	10ha	25
Rabi	Onion (NHRDF Red)	0.5 ha	5
Rabi	Arka Rakshak/ Kashi Vishesh	1	50
Summer	Mushroom Cultivation (Spawn and other inputs of Milky white mushroom)	5	5
Yearly	Nutritional Garden(Seeds of seasonal vegetables & fruits plants)	25	25

7. Seed and planting material production

Seed		Planting material	
Crop	Area (ha.)	Crop	Seedling No.
Paddy	10	Onion	2.0 Lakh
Green gram	3	Tomato	0.5 Lakh
Wheat	6	Guava	500
Chickpea	6		
Linseed	1.5		

8. Extension Activities

Sl. No.	Activity	No. of Programmes	No. of beneficiaries
1.	Field day	10	300
2.	Kisan Mela(Participation)	3	1100
3.	Kishan Gosthi	10	360
4.	Kishan Choupal	45	2500
5.	Exposure Visit	7	260
6.	Scientist visit to farmers field	80	240
7.	Farmers visit to KVK		1200
8.	Extension Literature	10	50000
9.	Radio talk	5	Mass Benefited
10.	T.V. talk	5	Mass Benefited
11.	Help line	3500	3500
12.	Ex-trainees meet	5	250
13.	News Paper Coverage	36	Mass Benefited
14.	SHG Formation	5	100
15.	Diagnostic Services	150	500

9. On-farm trials to be conducted

OFT-1 (Plant Breeding)

1.	**Title of On farm Trial**	**Assessment of biofortified lentil cultivar for yield**
2.	Problem diagnosed	Lacking of high yielding biofortified Lentil cultivar in Lakhisarai district.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers Practice**: Lentil cultivar Rubi **T.O.1**: Lentil cv. IPL-220 (Biofortified) **T.O.2:** Lentil cv. IPL-316 **T.O.3:** Lentil cv. L-4717
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Dept. of Plant Breeding & Genetics, BAU Sabour
5.	Production system and thematic area	Rain fed & Crop Production
6.	Performance of the Technology with performance indicators	Yield & B:C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

OFT-2(Plant Breeding)

1.	**Title of On farm Trial**	**Assessment of Gram cultivar for yield under late sown condition.**
2.	Problem diagnosed	Lacking of high yielding recent released

		cultivar of gram in Lakhisarai district
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers Practice**: Deshi chana **T.O.1**: Gram var. Sabour Chana-2 **T.O.2:** Gram var. GNG-2299
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	Dept. of Plant Breeding & Genetics, BAU Sabour
5.	Production system and thematic area	Rain fed & Crop Production
6.	Performance of the Technology with performance indicators	Yield & B:C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

OFT -3(Agronomy)

1.	**Title of On farm Trial**	**Improvement of Nitrogen use efficiency in wheat.**
2.	Problem diagnosed	Excessive use of chemical fertilizer and spiraling price of urea leads to increase in cost cultivation.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers practices:** RDF (100:40:20) Kg/ha **T.O.1:** 50% of RDN & 100% PK + Nano urea @4ml/lit. water (Single spray at 35 DAS) . **T.O.2** : 50% of RDN & 100% PK + 2 Spray of Nano urea at (35 DAS) and (60-65 DAS) @4ml/lit. water (Timely sown variety of BAU Sabour, BAU Ranchi and RPCAU, Pusa, ICAR RCER, Patna) .
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OFT Finalization workshop dt. 1-3 Sept. 2022, BAU Sabour
5.	Production system and thematic area	Rice-Wheat system, INM
6.	Performance of the Technology with performance indicators	Yield, No. of effective tillers/ m^2, 1000 grain wt., Panicle wt, Straw yield & Economics
7.	Final recommendation for micro level situation	Crop Standing
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	

OFT -4(Agronomy)

1.	Title of On farm Trial	**Integration of fertilizer in different form on yield of lentil**
2.	Problem diagnosed	Injudicious use of chemical fertilizer
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmer's practices: Seed Treatment + RDF**. **T.O.1:** 50% of RDF + WS 18:18:18 @ 5 gm/lit. water (Single spray at pre flowering stage) **T.O.2:** Seed treatment with PSB + Rhizobium, 50% of RDF + WS 18:18:18 @ 5 gm/lit. water (Single spray at pre flowering stage)

4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	OFT Finalization workshop dt. 1-3 Sept. 2022, BAU Sabour
5.	Production system and thematic area	Rice-Wheat system, Weed control
6.	Performance of the Technology with performance indicators	Yield, No. of Plant/ m², 1000 grain wt., No. of Pod/plant, Strover yield & Economics
7.	Final recommendation for micro level situation	Crop Standing
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	Through field visit & training

OFT-5 (Horticulture)

1.	**Title of On farm Trial**	**Assessment of microbial consortia against wilting in solanaceous crops (Tomato)**
2.	Problem diagnosed	
3.	Details of technologies selected for assessment/refinement	**Farmer Practices:** Chemical pesticides **T.O.1 :** IIHR consortia (Arka microbial consortia) **T.O.2 :** NRC Litchi consortia
4.	Source of Technology	OFT Finalization Workshop, 23-24 Sept. 2022, BAU Sabour
5.	Production system and thematic area	Paddy- Tomato (small production system), IDM
6.	Performance of the Technology with performance indicators	1.Initial plant population 2. First wilt incidence (DAT) 3.Wilting percentage at15,30,45,60 and 75 DAT 4. Yield (q/ha) 5. Economics (Rs./ha)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Replication	10 farmers
10.	Process of farmers participation and their reaction	Through field visit and training

OFT-6 (Horticulture)

1.	**Title of On farm Trial**	**Ex situ residue management in Potato cultivation**
2.	Problem diagnosed	
3.	Details of technologies selected for assessment/refinement	**Farmer Practices:** Sowing in ridge and furrow method Sowing of potato seed with FYM and paddy straw (15 cm) Sowing of potato seed with FYM and water hyacinth (15 cm)
		T.O.1 : Sowing of potato seed with FYM and paddy straw (15 cm) **T.O.2 :** Sowing of potato seed with FYM and water hyacinth (15 cm) (In TO1 & TO2, Foliar spray with 10:26:26, N:P:K as basal dose, 45 days after sowing spray with 19:19:19, N:P:K and thitd

		spray with 13:0:45, N:P:K)
4.	Source of Technology	OFT Finalization Workshop, 23-24 Sept. 2022, BAU Sabour
5.	Production system and thematic area	Paddy- Potato (small production system), RCT
6.	Performance of the Technology with performance indicators	1. Germination percentage 2. Growth performance (visual) 3.Disease incidence 4. Weed population 5. Tuber Yield 6. Economics (Rs./ha)
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Replication	10 farmers
10.	Process of farmers participation and their reaction	Through field visit and training

OFT: 7(Home Science)

1.	**Title of On farm Trial**	**Assessment of preparation methods of tomato (*Solanum lycopersicum L.*) pulp for increasing shelf life and instant use**
2.	Problem diagnosed	Lack of knowledge about tomato pulp preparation and its preservation
3.	Details of technologies selected for assessment/refinement	F.P.: Not in practice to prepare tomato pulp for instant use T.O.1 : Tomato puree preparation (with extraction of seed and skin) T.O.2 : Tomato crush preparation (from whole fruits)
4.	Source of Technology	BAU, Sabour
5.	Replication	10
6.	Production system and thematic area	Value Addition
7.	Performance of the Technology with performance indicators	i. Product recovery (gm/kg raw tomato) ii. Sensory Analysis: a)Taste b) Texture c) Colour d) Flavour e) Overall Acceptability 2. Packaging Material: Metalized poly ester (200gauge) 3. Shelf life (0, 15, 30, 45, 60 and 75 days)
10	Process of farmers participation and their reaction	Demonstration & training

OFT-8 (Plant Pathology)

1.	**Title of On farm Trial**	**Assessment of different fungicides for management of Spot blotch of Wheat**
2.	Problem diagnosed	Necrosis of leaf
3.	Details of technologies selected for assessment/refinement	**Farmer Practices** : Bavistin @ 2.5 g/Lit at the time of disease appearance **T.O.1** :

		• Seed treatment with Vitavax 200WS @ 2.5g/Kg • Seed + Foliar spray of Propiconazole @ ml/Lit water first at boot leaf and second spray 20 days after first spray **T.O.2** : • Seed treatment with *Trichoderma viridae* @ 5g/Kg • Seed+Foliar spray of Hexaconazole @ 1ml/Lit water first at boot leaf stage and second spray 20 days after first spray
4.	Source of Technology	UBKV, Cooch Behar, West Bengal
5.	No. of Farmers	5
6.	Production system and thematic area	Rice-Wheat production system
7.	Performance of the Technology with performance indicators	Disease severity, Yield, B:C ratio
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	On farm demonstration

OFT-9 (Plant Pathology)

1.	**Title of On farm Trial**	**Assessment of bio-intensive management of wilt disease in tomato crop**
2.	Problem diagnosed	Wilting of tomato crop in large scale
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers Practice**: Seed treatment **T.O.1**: • Soil solarization • Seed treatment by Pseudomonas fluorescens @10g/kg • Nursery bed treatment of Trichoderma @50g/m^2 • Soil application of Pseudomonas fluorescens @5kg/ha mixed with 500 kg vermicompost per hectare @30 DAT **T.O.2:** • Soil solarization • Seed treatment by *Trichoderma viridae* 10 g/kg • Nursery bed treatment of *Trichoderma viridae* @50g/m^2 • Soil application of *Trichoderma viridae* @5 kg/ha mixed with 500 kg vermicompost per hectare @30 DAT
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	IIHR, Banglore
5.	Production system and thematic area	Rain fed & Crop Production

6.	Performance of the Technology with performance indicators	Disease incidence, Yield & B:C ratio
7.	Final recommendation for micro level situation	
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	On farm demonstration

10. List of Projects to be implemented

Name of the project	Year of Start
CFLD	2016
Pulse Seed Hub	2016
CISSA(CIMMYT)	2016
Skill Development	2017
Small Nursery (N.H.M)	2019
PKVY	2019
SCSP	2020
CRAP	2020
NARI	2021
Kisan Sarathi	2021
NICRA	2021
Natural Farming	2022

i. Seed Hub

S.no.	Crop	Variety and year of release	Category of seed	Production target (qt)during Rabi 2022-23
1.	Gram	Sabour Chana-1	F/S	500
2.	Gram	RVG-202 Year 2012	C/S	
3.	Gram	RVG-203 Year 2013	C/S	
4.	Lentil	IPL-316 Year 2016	C/S	300
5.	Lentil	IPL-220 Year 2018	C/S	
6.	Green Gram	Shikha	C/S	200

11. No. of success stories to be developed:

Sl. No.	Topic of success stories	No. of stories to be developed
1.	Agronomy	02
2.	Plant Breeding	02
3.	Horticulture	02
4.	Home Science	02
5.	Plant pathology	02

12. Scientific Advisory Committee

Date of SAC meeting held during 2022	Proposed date 2023
21.09.2022	Sept. 2023

13.Staff position

Sanctioned	In position	Vacant
Senior Scientist & Head	1	-
SMS –Agronomy	1	-
SMS- Animal Science	-	1
SMS – Plant Protection	1	-
SMS-Plant Breeding	1	-
SMS-Horticulture	1	-
SMS-Home Science	1	-
Programme Assistant(Lab. Tech.)	-	-
Prog. Asstt. (Computer)	1	-
Farm Manager	1	-
Assistant	1	-
Stenographer	1	-
Driver	1	-
Driver	1	-
Supporting Staff	1 (Contractual)	-
Supporting Staff	1 (Contractual)	-

14. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building	Complete	Handover	-	-
Trainees' hostel	Complete	Handover	-	-
Staff quarter (only 06 staff)	Complete	Handover	-	-
Seed Hub Godown	Complete	Handover	-	-
Demonstrations: i) ii) iii)	Mushroom Vermicompost Small Nursery	Complete Complete Complete	-	-