ACTION PLAN
2022

1. Name of the KVK: KVK Bhagwanpur Hat, Siwan

Introduction:

Address	Telephone	E mail
KVK Bhagwanpur Hat, Siwan, 841408	7752828740	head.kvk.siwan@rpcau.ac.in

1. Name of host organization :

Address	Telephone		E mail
	Office	FAX	
Dr. Rajendra Prasad Central Agricultural University, Pusa Bihar	06274-240226	06274-240255	vc@rpcau.ac.in

2. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1.	Senior Scientist & Head	Dr. Anuradha Ranjan Kumari	Senior Scientist & Head	Permanent	Others
2.	Subject Matter Specialist	Er. K. B. Chhetri	SMS (Agril. Engg.)	Permanent	Others
3.	Subject Matter Specialist	Miss Sarita Kumari	SMS (Home Science)	Permanent	SC
4.	Subject Matter Specialist	Dr. Harsha B. R.	SMS (Crop Production)	Permanent	OBC
5.	Subject Matter Specialist	Dr. Nandeesha C. V.	SMS (Plant Protection)	Permanent	EWS
6.	Subject Matter Specialist	Dr. Jonah Dakho	SMS (Horticulture)	Permanent	ST
7.	Subject Matter Specialist	-	-	-	-
8.	Programme Assistant	-	-	-	-
9.	Computer Programmer	-	-	-	-
10.	Farm Manager	-	-	-	-
11.	Accountant/Superintendent	Sri Abhishek Kumar	Assistant	Permanent	Others
12.	Stenographer	Sri Harsh Kumar	Stenographer	Permanent	Others
13.	Driver	Sri Suman Kumar	Jeep Driver	Permanent	SC
14.	Driver	Sri Raj Kishor Paswan	Tractor Driver	Permanent	SC
15.	Supporting staff	Sri Abhishek Kumar	Supporting staff	Permanent	OBC

16.	Supporting staff	Sri Puspendra Kumar Pal	Supporting staff	Permanent	OBC

:

3. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	2.0
2.	Under Demonstration Units	1.5
3.	Under Crops	12.0
4.	Orchard/Agro-forestry	4.5
5.	Others with details	-
	Total	**20.00 ha**

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

S. No.	Farming system/enterprise
1	Crop production + Animal Husbandry
2	Crop Production+ Medicinal & aromatic plants
3	Sugarcane + Animal Husbandry
4	Crop Production+Vegetable Production
5	Integrated farming System
6	Mushroom Production
7	Value addition
8	Rural craft
9	Preservation and processing of fruits & vegetables
10	Quality seed grower
11	Bee-keeping & honey production
12	Nursery management

5. About District

DEMOGRAPHIC FEATURES	
Area (in ha.)	2,21,900
No. of Sub-Division	2
No. of Block	19
No. of Gram Panchayat	293
No. of Village	1,530
Total Population	33,30,464
Population Density (per sq. km.)	1,501
SC Population	3,86,685
ST Population	87,000
Sex Ratio	988
Literacy rate	69.45

Source: As per 2011 Census

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

S. No	Agro-climatic Zone	Characteristics
1	Middle Gangetic Plain Region (IV) **[Planning Commission]** North West Alluvial Plain Zone (BI-1) [**NARP]**	The sub-zone is at the foot of the Himalaya and receives 1,275mm of rainfall. The climate is drying to moist sub-humid and the soil type is heavy textured sandy loam to clayey, medium acidic. Over 70% of the land in this sub-zone is arable and about 42% of this is irrigated.

Source: Contingency plan of Siwan 2011.

7. Agro ecological situation

S. No	Agro ecological situation	Area (ha)	Characteristics
1	Medium Upland	103682	They are usually found away from the major river Ghaghra, thus being immense to its influence.
2	Chaur or deep lowland	72799	During the process of shifting of coarse rivers leave behind cut off, meanders, abandoned channels and a number of marshes locally known as chaurs. The chaurs are responsible for water logging in the area with the onset of monsoon and contract to become localized during summer.
3	Daira land	45571	They are found on the beds of major rivers Ghaghara which are nothing but heap of sands brought by rivers during flood

			gradually rise as water lying stagnant, spreads a thin layer of clay and silt over sand. There is a gradual slope from northwestern to south-eastern part of the district, where Mairwa which is the highest part in the district being 65.830 m above MSL and Gangpur Siswan being the lowest point 56.90 m above MSL.

8. Soil types

Sl. No	Soil type	Characteristics	Area in ha
1	Black soils	Dark grey to Black in color. High clay content. Highly moist retentive. Rich in iron, lime, calcium, Magnesium, carbonates, and alumina.	86,600
2	Sandy soils	Sandy soils can be highly productive as the heavier soil below can trap leached nutrients and hold moisture. Sandy soils have very little clay to retain nutrients and so are not fertile. Sandy soil is usually dry, nutrient and fast draining.	25,000
3	Sandy Loam soils	Sandy loam soils have visible particles of sand mixed into the soil. When sandy loams soils are compressed, they hold their shape but break apart easily. These soils have a high concentration of sand that gives them a gritty feel.	52,000
4	Alkali Soils	Alkali soils are clay soils with high pH (> 8.5), a poor soil structure and a low infiltration capacity. Alkali soils owe their unfavorable physico-chemical properties mainly to the dominating presence of sodium carbonate, which causes the soil to swell and difficult to clarify/settle.	9,500
5	Diara Land	The Diara land soils with their undulating landscapes are generally very light to medium heavy textured but all underlain by sandy layers within 80 to 100 cm of their surface and very well drained to moderately well drained, neutral to slightly alkaline in reaction	25,800

Source: Contingency plan of Siwan 2011.

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

S. No	Crop	Area (ha)	Production (q)	Productivity (q/ha)
1.	Paddy	91000	645200	7.09
2.	Wheat	90630	2764200	30.50
3	Pulses	3760	35600	9.48
4	Sugarcane	1280	75800	594.30
5	Maize	17750	434500	24.48
6	Potato	9860	98600	10.00
7	Onion	950	221700	233.36

Source-Bihar Economy Survey 2019-20

10. Details of operational area / villages

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.	Siwan	Goriakothi	Kala Dumra	Paddy-Wheat-Green gram	Pest and Disease Low Productivity	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.
2.	Siwan	Basantpur	Kumkumpur	Wheat Paddy	Low Productivity Traditional Variety	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.
3.	Siwan	Lakrinabiganj	Bhopatpur Bala	Paddy	Low Productivity Traditional Variety	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.
4.	Siwan	Barhariya	Malik Tola	Paddy Wheat	Low Productivity Traditional Variety	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.

5.	Siwan	Bhagwanpur Hat	Mirjumla	Paddy-Wheat Vegetables	Low Productivity Traditional Variety Flood and Moisture Stress	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.
6.	Siwan	Ziradei	Ziradei	Paddy-Wheat	Low Productivity Traditional Variety Flood and Moisture Stress	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.
7.	Siwan	Bhagwanpur Hat	Shankarpur	Paddy-Wheat Vegetables	Low Productivity Traditional Variety Flood and Moisture Stress	Promotion for improving production of major cropping pattern for Siwan district. Promotion of IPM and INM package.

11. Priority thrust areas

S. No	Thrust area
1.	Emphasis on reclamation of saline and alkaline soil.
2.	Promotion of system of DSR and DSW.
3.	Promotion for improving production of major cropping pattern for Siwan district.
4.	Empowerment and strengthening of rural farm women / Youth through income generating activity.
5.	Improving production capacity of milch animals.

6.	Self-employment generation through agricultural enterprises.
7.	Promotion of IPM and INM package.
8.	Promotion of Medicinal & aromatic plant.
9.	Promotion of high density orchard.

12. Training program to be organized (January 2022 to December 2022)

1. Agricultural Engineering

Thematic Area	Title of Training	Qr. No.	Duration	Venue OFF/On Campus	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Post-harvest technology	Post Harvest technology	1	1	On/Off	04.01.2022	3	2			16	4	19	6	25
Post-harvest technology	Post-harvest technology	1	1	On/Off	06.01.2022	3	1			21	5	24	6	30
Repair and maintenance of farm machinery and implements	Farm Machinery & Maintenance	1	1	On/Off	11.01.2022	2	5			13	10	15	15	30
Post-harvest Management	Post-harvest Management	1	1	On/Off	22.02.2022	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Zero tillage in green Gram	1	1	On/Off	25.02.2022	2	5			13	10	15	15	30
Small scale processing and value addition	Value addition in potato	1	1	On/Off	26.02.2022	2	5			13	10	15	15	30
Small scale processing and value addition	Post-harvest technology and value addition	1	1	On/Off	08.03.2022	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Zero tillage in Green Gram	1	1	On/Off	21.03.2022	2	5			13	10	15	15	30

Farm Machinery & Maintenance	Value addition	2	1	On/Off	24.03.2022	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Laser Land levelling	2	1	On/Off	22.04.2022	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Laser Land levelling training programme	2	1	On/Off	25.04.2022	2	5			13	10	15	15	30
Farm machination	Farm machination	2	1	On/Off	26.04.2022	2	5			13	10	15	15	30
Micro irrigation and its application	Micro-Irrigation and its Application (PMKSY)	2	1	On/Off	19.05.2022	2	5			13	10	15	15	30
Micro irrigation and its application	Micro-Irrigation and its Application (PMKSY)	2	1	On/Off	24.05.2022	2	5			13	10	15	15	30
Farm Machinery & Maintenance	DSR through Zero tillage machine	2	1	On/Off	On/Off	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Training on DSR	2	1	On/Off	On/Off	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Laser Land Levelling	2	1	On/Off	On/Off	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Training on DSR	2	1	On/Off	On/Off	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Laser land leveling	2	1	On/Off	On/Off	2	5			13	10	15	15	30
Farm Machinery & Maintenance	DSR using seed cum ferti drill machine	3	1	On/Off	On/Off	2	5			13	10	15	15	30

Farm Machinery & Maintenance	Farm machinery and its maintenance	3	1	On/Off	On/Off	2	5			13	10	15	15	30
Farm Machinery & Maintenance	Farm machinery and its maintenance	3	1	On/Off	On/Off	2	5			13	10	15	15	30
Repair and maintenance of farm machinery and implements	Farm machinery and its maintenance	3	1	On/Off	On/Off	4	2			19	5	23	7	30
Post-harvest technology	Storage structure of rice	4	1	On/Off	On/Off	3	2			18	2	21	4	25
Installation and maintenance of micro irrigation system	Micro irrigation system	4	1	On/Off	On/Off	3	2			20	5	23	8	30
Processing and value addition	Uses of solar energy for drying	1	1	On/Off	On/Off	3	2			16	4	19	6	25
Small scale processing and value addition	Small scale processing of mushroom	1	1	On/Off	On/Off	3	2			18	2	21	4	25
Rural Youth														
Small scale processing and value addition	Small scale dairy Processing	1	1	On/Off	On/Off	3	4			16	7	19	11	30
Small scale processing and value addition	Small scale dairy Processing	2	1	On/Off	On/Off	2	3			17	3	19	6	25
Small scale processing and value addition	Preservation and Processing of fruits and vegetables	3	3	On/Off	On/Off	3	2			16	4	19	6	25
Repair and maintenance of farm machinery and implements	Farm machinery and its maintenance	3	5	On/Off	On/Off	2	3			15	10	17	13	30
Repair and maintenance of farm machinery	Farm machinery and its	4	5	On/Off	On/Off	2	3			15	10	17	13	30

and implements	maintenance													
Small scale processing and value addition	Preservation and processing of fruits & vegetables	4	3	On/Off	On/Off	3	2			20	5	23	8	30
Extension Functionaries														
Repair and maintenance of farm machinery and implements	Farm mechanization (Kharif Abhiyan 2022)	2	1	On/Off	On/Off	5	1			20	2	25	3	28
Repair and maintenance of farm machinery and implements	Care and maintenance of tractors	3	1	On/Off	On/Off	3	1			24	2	27	3	30
Repair and maintenance of farm machinery and implements	Different implements use in harvesting & showing	4	1	On/Off	On/Off	5	1			20	2	25	3	28
Repair and maintenance of farm machinery and implements	Care and maintenance of tractors	4	1	On/Off	On/Off	3	1			24	2	27	3	30

2. Home Science Training program to be organized (January 2022 to December 2022)

Thematic Area	**Title of Training**	**No. of Course**	**Duration**	**Venue OFF/On Campus**	**Tentative Date**	**Participants/Trainees**								
						SC		**ST**		**Other**		Total		
						M	**F**	**M**	**F**	**M**	**F**	M	**F**	**T**
Practicing Farmer														
Consumer awareness	Testing of food adulterants through traditional	1	1	On/ Off	02.04. 2022	5	5	-	-	5	15	20	10	**30**

	methods													
Value addition	Processing and preservation of vegetables (Drumstick and Tomato)	1	3	On/ Off	11.04. 2022	5	5	-	-	5	15	20	10	**30**
Consumer awareness	Testing of food adulterants through traditional methods	1	1	On/ Off	05.05. 2022	5	5	-	-	5	15	20	10	**30**
Value Addition	Processing and preservation of vegetables (Spinach and Potato)	1	2	On/ Off	14.05. 2022	5	5	-	-	5	15	20	10	**30**
Women and Child Care	Awareness about Anemia in women during pregnancy and lactation period	1	1	On/ Off	10.06. 2022	5	5	-	-	5	15	20	10	**30**
Value	Processing	1	2	On/	13.06.	5	5	-	-	5	15	20	10	**30**

addition	and preservation of green chili			Off	2022									
Value addition	Income enhancement of farm women through value addition of Guava by Gem and squash.	1	1	On/ Off	5.07.2022	5	5	-	-	5	15	20	10	**30**
House hold food security by kitchen gardening	Kitchen gardening and its importance	1	1	On/ Off	14.07. 2022	5	5	-	-	5	15	20	10	**30**
Low cost technique for weaning food	Preparation of weaning food through different grains	1	1	On/ Off	03.08. 2022	5	5	-	-	5	15	20	10	**30**
House hold food security by kitchen gardening	Kitchen gardening and its importance	1	2	On/ Off	21.08. 2022	5	5	-	-	5	15	20	10	**30**
Value addition	Processing and preservation	1	1	On/ Off	06.09. 2022	5	5	-	-	5	15	20	10	**30**

	of Guava													
Designing and development of high iron content diet	Low cost iron content diets	1	1	On/ Off	13.09. 2022	5	5	-	-	5	15	20	10	**30**
Enterprise development	Entrepreneurship in embroidery	1	1	On/ Off	18.10. 2022	5	5	-	-	5	15	20	10	**30**
Income generation activities for empowerment of rural women	Bakery knowledge	1	1	On/ Off	20.10. 2022	5	5	-	-	5	15	20	10	**30**
Income generation activities for empowerment of rural women	Making article through crocheting	1	1	On/ Off	26.10. 2022	5	5	-	-	5	15	20	10	**30**
Value addition	Preparation of different	1	2	On/ Off	28.10. 2022	5	5	-	-	5	15	20	10	**30**

	Mushroom product.													
Women and child care	Health care of women and child in winter season.	1	1	On/ Off	04.11. 2022	5	5	-	-	5	15	20	10	**30**
Household food security by kitchen gardening and nutrition gardenin	Nutritional gardening	1	1	On/ Off	15.11. 2022	5	5	-	-	5	15	20	10	**30**
Value addition	Processing and preservation of Amla pickles and Amla Murabba	1	2	On/ Off	17.11. 2022	5	5	-	-	5	15	20	10	**30**
Consumer awareness	Testing of food adulterants through traditional methods	1	1	On/ Off	23.11. 2022	5	5	-	-	5	15	20	10	**30**
Household food security by kitchen gardening	Kitchen gardening and its importance	1	1	On/ Off	25.11. 2022	5	5	-	-	5	15	20	10	**30**

Enterprise development	Entrepreneurship in embroidery	1	1	On/ Off	30.11. 2022	5	5	-	-	5	15	20	10	**30**
Low cost technique for weaning food	Preparation of weaning food through mushroom	1	1	On/ Off	02.12. 2022	5	5	-	-	5	15	20	10	**30**
Women and Child Care	Health care of child and women during pregnancy and lactation period	1	1	On/ Off	21.12. 2022	5	5	-	-	5	15	20	10	**30**
Rural Youth														
Value addition	Pickle making of seasonal vegetable sand fruits	1	5	On/ Off	19.04. 2022 to 23.04. 2022	-	30	-	-	-	-	-	30	**30**
Value addition	Value addition on Jackfruit and Mango	**1**	5	On/ Off	27.06. 2022 to 01.07. 2022		5	-	-	-	19	-	24	**24**
Traditional folk art of Bihar	"Madhubani" Painting for self-employmen	**1**	11	On/ Off	18.07. 2022 to 28.07. 2022	2	3	-	-	10	12	12	15	**27**
Traditional folk art of Bihar	"Manjusha" Painting for self-employmen	**1**	7	On/ Off	23.08. 2022 to 29.08. 2022	2	3	-	-	-	20	2	23	**25**

Value addition	Value addition on different grains through Bakery	1	5	On/ Off	05.09. 2022 to 09.09. 2022	-	5	-	-	-	2 0	-	2 5	**2 5**
Rural craft	Different type fabric painting	1	7	On/ Off	14.11. 2022 to 21.11. 2022	2	3	-	-	-	2 0	2	2 3	**2 5**
Extension Functionaries														
Household food security and kitchen gardening	Kitchen garden	1	1	On/ Off	03.08. 2022	2	3	-	-	-	2 0	2	2 3	**2 5**
Preservation	Preservation value addition technique of different vegetables.	1	1	On/ Off	1.09.2 022	2	3	-	-	-	2 0	2	2 3	**2 5**
Women and child care	Health care of child and women during pregnancy and lactation period	1		On/ Off	19.09. 2022	2	3	-	-	-	2 0	2	2 3	**2 5**

3. Plant Protection

Thematic area	**Title of Training**	**Quarter**	**Duration**	**Venue**	**Tentative Date**	**Participants**								
						SC/ST				**Other**		**Total**		
						M	F	M	F	M	F	M	F	**T**
Practicing Farmer														
IDM	Integrated disease management in wheat	1	1	On/Off	05.01.2022	3	1	-	-	18	2	21	3	24

IPM	Integrated pest management in wheat	1	1	On/Off	10.01.2022	2	2	-	-	21	3	23	5	28
IPM	Integrated pest management in field pea	1	1	On/Off	11.01.2022	4	1	-	-	15	5	19	6	25
IPM & IDM	Post-harvest management of fruits and vegetables	1	1	On/Off	22.02.2022	2	1	-	-	12	2	14	3	17
IPM & IDM	Integrated disease and pest management in sunflower	2	1	On/Off	01.04.2022	5	2	-	-	13	4	18	6	24
IPM & IDM	Pest and disease management in natural farming	2	1	On/Off	26.04.2022	15	10	-	-	35	12	50	22	72
IPM & IDM	Integrated pest and disease management in summer green gram	2	1	On/Off	10.05.2022	3	-	-	-	16	-	19	-	19
IPM & IDM	Insect pest and disease management in green gram and banana	2	1	On/Off	12.05.2022	2	-	-	-	13	-	15	-	15
IPM & IDM	Pest and Disease management in Green gram, Sunflower and Banana	2	1	On/Off	19.05.2022	5	-	-	-	12	-	17	-	17
IDM	Importance of micro irrigation in pest and disease management in healthy orchard management	2	1	On/Off	21.05.2022	6	-	-	-	19	3	25	3	28

IPM & IDM	Awareness about healthy orchard management of Mango and Litchi, Use of Microirrigation under PMKSY	2	1	On/Off	22.05.2022	8	2	-	-	27	2	35	4	39
IPM	Management of sucking pest infestation in summer vegetables and greengram	2	1	On/Off	02.06.2022	4	2	-	-	18	4	22	6	28
IPM	Disease and pest management in sunflower	2	1	On/Off	06.06.2022	5	3	-	-	19	3	24	6	30
IPM	Training programme on seed treatment and its benefit in legume crops	3	1	On/Off	05.07.2022	2	-	-	-	13	-	15	-	15
IPM	Insect pest management in paddy	3	1	On/Off	24.08.2022	3	2	-	-	21	4	24	6	30
IPM & IDM	Insect pest and disease management in pigeon pea	3	1	On/Off	13.09.2022	3	2	-	-	17	3	20	5	25
IDM	Disease management of paddy	3	2	On/Off	28/29.09.2022	5	2	-	-	20	3	25	5	30
IPM & IDM	Importance of seed treatment in crop production	4	1	On/Off	14.10.2022	3	2	-	-	20	5	23	7	30
IDM	Role of IDM in wheat cultivation.	4	1	On/Off	03.11.2022	4	2	-	-	26	7	30	9	39
Bio-pesticides	Use of *Trichoderma Viridae* in vegetable	4	1	On/Off	11.11.2022	3	2	-	-	18	4	21	6	27

	production.													
IDM	Disease management in mango.	4	2	On/Off	06/07.12.2022	2	1	-	-	18	3	20	4	24
IPM	Insect pest management in rabi pulse and oilseeds crops.	4	2	On/Off	21/22-12-2022	3	2	-	-	16	4	19	6	25
Rural youth														
Bee Keeping	Scope and benefit of apiary	1	1	On/Off	09.02.2022	15	2	-	-	13	7	28	9	37
Bee Keeping	Scope and benefit of apiary	1	1	On/Off	17.02.2022	5	2	-	-	22	5	27	7	34
Bee Keeping	Scope and benefit of apiary	2	1	On/Off	07.06.2022	-	-	-	-	18	18	18	18	36
Bee Keeping	Scope and benefit of apiary	2	1	On/Off	29.06.2022	1	-	-	-	20	18	21	18	39
Bee Keeping	Scope and benefit of apiary	3	1	On/Off	12.07.2022	5	1	-	-	1	28	6	29	35
Bee Keeping	Scope and benefit of apiary	3	1	On/Off	18.07.2022	-	-	-	-	33	3	33	3	36
Bee Keeping	Scope and benefit of apiary	3	1	On/Off	28.07.2022	-	-	-	-	16	19	16	19	35
IPM	Protected cultivation of vegetables	4	1	On/Off	17.10.2022	3	2	-	-	18	4	21	6	27
Mushroom production	Mushroom production technique	4	1	On/Off	12.12.2022	5	3	-	-	25	5	30	8	38
Extension Functionaries														
IDM	In-service training on pest and diseases management in kharif crops	2	1	Off	26.05.2022	10	-	-	-	135	08	145	08	153

IDM	Use of *Trichoderma viridae* in different crops	3	1	Off	12.09.2022	3	2	-	-	20	5	23	7	30
Bio-pesticides	Preparation and use of neem based pesticides	4	1	Off	07.11.2022	3	2	-	-	18	5	21	7	28
IPM	Protected cultivation of vegetables	4	1	Off	15.11.2022	3	2	-	-	20	5	23	7	30

4. Horticulture

Thematic Area	Title of Training	Quarter	Duration	Venue	Tentative Date	Participants/Trainees								
						SC		ST		Other		Total		
						M	F	M	F	M	F	M	F	T
Practicing Farmer														
Cultivation of vegetable	Cultivation of summer vegetable	1	1	On	01.01.2022	3	1	-	-	21	2	24	3	27
Cultivation of vegetable	Cultivation of Summer vegetable	1	1	On	22.02.2022	5	2	-	-	25	3	30	5	35
Orchard Management	Mango orchard management	2	1	off	06.05.2022	2	-	-	-	13	-	15	-	15
Cultivation of vegetable	Scientific cultivation of summer vegetables	2	1	off	11.05.2022	1	1	-	-	3	10	4	11	15
Cultivation of vegetable	Scientific cultivation of Kharif vegetables	2	1	off	10.06.2022	3	2	-	-	10	5	13	7	20
Cultivation of vegetable	Scientific cultivation of Kharif vegetables	2	1	off	23.06.2022	2	-	-	-	14	0	16	0	16
Plant propagations	Mango propagation by grafting methods	3	1	on	06.07.2022	2	-	-	-	14	1	16	1	17

Orchard Management	Orchard Management	3	1	on	07.07.2022	2	-	-	-	13	1	15	1	16
Cultivation of medicinal and aromatic plants	Importance and Cultivation technology of medicinal plants (Mentha) and elephant foot yam	3	2	off	08.07.2022-18.07.2022	3	1	-	-	36	1	38	02	40
Productivity enhancement	Importance of horticultural crops for doubling farmers income (DFI)	3	1	on	16.07.2022	24	14	4	2	92	66	120	82	202
Cultivation of vegetable	Scientific cultivation practices of Kharif season vegetable crops	3	1	on	28.07.2022	12	2	4	1	25	42	41	45	86
Cultivation of flower crops	Scientific cultivation and management of marigold var. Pusa Narangi	3	1	on	05.07.2022	2	-	-	-	20	3	22	3	25
Cultivation of vegetable	Scientific cultivation and management of tomato var. Kashi Aman	3	1	on	06.07.2022	3	1	-	-	15	6	18	7	25
Cultivation of vegetable	Scientific cultivation and management of chilli var. Kashi Amol	3	1	on	07.07.2022	2	1	-	-	19	3	21	4	25
Cultivation of vegetable	Scientific cultivation and management of hybrid brinjal var. Kashi Sandesh	3	1	on	08.07.2022	2	1	-	-	19	3	21	4	25
Cultivation of vegetable	Cultivation of vegetable pea	4	1	OFF/On	09.10.2022	5	2	-	-	20	3	25	5	30
Cultivation of fruits	Cultivation of potato	4	2	OFF/On	23.10.2022	5	2	-	-	20	3	25	5	30
Cultivation of vegetable	Cultivation of onion Cultivation of garlic	4	1	OFF/On	5.11.2022	10	2	-	-	40	3	50	5	55

Cultivation of vegetable	Measures to overcome frost damage	4	1	OFF/On	18.12.2022	5	2	-	-	20	3	25	5	30
Rural youth														
INM	Integrated nutrient management	3	5	On/Off	20.04.2022	5	2	-	-	17	4	22	6	28
Nursery management of horticulture crops	Nursery management of chilli, cauliflower, etc.	3	5	On/Off	14.05.2022	5	2	-	-	15	4	20	6	26
Planting material production	Propagation methods of different fruit crops	3	5	On/Off	10.06.2022 to 15.06.2022	5	2	-	-	18	4	23	6	29
Cultivation of flower crops	Scientific cultivation practices of flower crops	3	5	On/Off	1.07.2022 to 7.07.2022	4	2	-	-	17	4	21	6	27
Nursery management of horticulture crops	Nursery management of tomato, onion etc.	4	5	On/Off	3.10.2022	5	2	-	-	15	4	20	6	26
Protected cultivation of vegetable	Protected cultivation of vegetable	4	3	On/Off	17.11.2022	6	2	-	-	15	4	21	6	27
Extension Functionaries														
Water use efficiency in horticultural crops	Importance of micro irrigation in horticultural crops	2	2	Off	18.05.2022 to 19.05.2022	17	2	-	-	53	22	68	24	92

Integrated nutrient management	INM in horticultural crops	3	2	On/Off	25.07. 2022	4	4	-	-	18	1	22	5	27
Productivity enhancement in field	Productivity enhancement in vegetable	3	2	On/Off	20.08. 2022	3	3	-	-	16	1	19	4	23
Protected cultivation technology	Protected cultivation technology	4	2	On/Off	16.10. 2022	2	2	-	-	19	1	21	3	24

5. Crop Production

Thematic Area	**Title of Training**	**Qr. No.**	**Duration**	**Venue OFF/On Campus**	**Tentative Date**	**Participants/Trainees**								
						SC		**ST**		**Other**		Total		
						M	**F**	**M**	**F**	**M**	**F**	M	**F**	**T**
Practicing Farmer														
Crop Production Technique	Wheat crop production	1	1	OFF/On	02.01. 2022	5	0	-	-	0	27	5	27	32
Seed Production Technique	Seed production in Cauliflower	1	1	OFF/On	04.01. 2022	3	0	-	-	15	0	18	0	18
Seed Production Technique	Seed production in Wheat	1	1	OFF/On	05.01. 2022	3	0	-	-	15	3	18	3	21
Seed Production Techni	Seed production in Rape seed and mustard	1	1	OFF/On	10.01. 2022	2	0	-	-	15	0	17	0	17

que														
Crop production	Cultivation of chickpea and field pea	1	1	OFF/On	11.01.2022	2	0	-	-	10	0	12	0	12
Crop production	Sunflower cultivation	2	1	OFF/On	01.04.2022	1	1	-	-	16	05	17	6	23
Soil fertility	Soil testing awareness	2	3	OFF/On	10/12/22.05.2022	2	1	-	-	44	5	46	6	52
Water management	Information on micro irrigation and PMKSY	2	1	OFF/On	20.05.2022	4	-	-	-	32	-	36	-	36
Crop Production Technique	Scientific ways of paddy cultivation	2	2	OFF/On	30.05.2022 16.06.2022	7	3	-	-	10	8	17	11	28
Crop Production Technique	Dhaincha cultivation	2	1	OFF/On	02.06.2022	5	-	-	-	14	-	19	-	19
Crop Production Technique	DSR technology and Seed treatment	2	1	OFF/On	07.06.2022	5	3	-	-	21	3	26	6	32
Crop Production Technique	Scientific ways of soybean cultivation	3	1	OFF/On	05.07.2022	5	1	-	-	13	1	18	2	20

Compost preperation	Vermicompost preparation techniques	3	2	OFF/On	19.07.202 16.08.2022	10	10	-	-	15	5	25	15	40
Management of problematic soils	Reclamation of Salt affected soils	3	3	OFF/On	19/22/28.09.2022	2	1			14	3	16	4	20
Weed management	Weed management in wheat crop	4	2	OFF/On	10/17.10.2022	3	1			14	4	17	5	22
Weed management	Weed management in mustard crop	1	2	OFF/On	20.10.2022 22.12.2022	2	1			14	3	16	4	20
Rural Youth														
Crop Production	Sunflower cultivation	1	1	On/Off	18.04.2022	5	0	-	-	17	-	22	0	22
Crop Production	Scientific ways of wheat cultivation	4	3	On/Off	03/06.10.2022 02.11.2022	3	2	-	-	20	5	23	7	30
Crop Production	Scientific ways of Mustard cultivation	4	2	On/Off	14/21.11.2022	3	2	-	-	20	5	23	7	30
Extension Functionaries														
Soil fertility management	Balanced fertilizer application	4	2	On/Off	05/08.12.2022	3	2	-	-	20	5	23	7	30
Organic training	Importance of farming Benefits & utilization of organic farming	4	2	On/Off	19/26.12.2022	3	2	-	-	20	5	23	7	30

12. Frontline demonstration to be conducted 2022-23

Season	Variety/ Tech demo.	Area (ha)/No.	No. of Demonstration
Kharif	Variety (Rice: CSR-23)	5	10
	Variety (Marigold: Pusa Narangi)	1	5
	Bhindi pluckier	5	20
	Management of false smut of paddy (mancozeb + Carbendizim at 1.g/lt. of water)	10	25
	DSR	6	15
Rabi	Variety (wheat: KRL- 210)	5	10
	Variety (Cauliflower: Pusa Beta Kesari)	2	10
	Preparation of Amala muraba (Amla +jaggery)		50
	Management of sucking pest in tomato (Imidachloprid @ .25 mt/ Lt. of water)	10	25
	Raise Bed Planting - Maize	6	15
	Zero tillage-Lentil	4	10
Summer	Sucking pest management in Green gram Thiomethoxam 25WG @ 0.2 g/lt of water	40	100
	Technology (Press mud application @ 10t/ha)	2	4
	Technology for controlling Fruit drop in Mango (micronutrients spray: zinc @ 0.2%, boron @ 0.2%)	5	10
	Octagonal Hand Operated Maize Sheller	25	35
All season	Nutri garden	20	30
	Vegetable Planter	-	05

Extension and Training activities under FLD:

S.N.	Activity	Title of Activity	No.	Clientele	Duration (Day)	Venue On/Off	No. of Participants								
							SC		ST		Other		Total		
							M	F	M	F	M	F	M	F	T
1	Training	Scientific cultivation of Paddy	2	Practicing farmer	2	On/Off	4	2	-	-	18	3	20	05	25
	Field day	Yield increment in Paddy	2	Practicing farmer	2	Off	4	2	-	-	18	3	20	05	25
2	Training	Scientific cultivation of Marigold	2	Practicing farmer	2	On/Off	1	2	-	-	5	2	6	4	10
	Field day	Yield increment in Marigold	2	Practicing farmer	2	Off	1	2	-	-	5	2	6	4	10
3	Training	Scientific cultivation of Bhindi pluckier	2	Practicing farmer	2	On/Off	3	0	-	-	5	2	8	2	10
	Field day	Yield increment in Bhindi pluckier	2	Practicing farmer	2	Off	3	0	-	-	5	2	8	2	10
4	Training	Management of false smut of paddy	2	Rural Youth	2	On/Off	5	1	-	-	12	2	17	03	20

	Field day	Management of false smut of paddy	2	Rural Youth	2	Off	5	1	-	-	12	2	17	03	20
5	Training	DSR	2	Practicing farmer	2	On/Off	1	2	-	-	5	2	6	4	10
	Field day	DSR	2	Practicing farmer	2	Off	1	2	-	-	5	2	6	4	10
6	Training	Scientific cultivation of wheat	2	Practicing farmer	2	On/Off	4	2	-	-	18	3	20	05	25
	Field day	Yield increment in Wheat	2	Practicing farmer	2	Off	4	2	-	-	18	3	20	05	25
7	Training	Scientific cultivation of Cauliflower	2	Practicing farmer	2	On/Off	5	1	-	-	12	2	17	03	20
	Field day	Yield increment of cauliflower	2	Practicing farmer	2	Off	5	1	-	-	12	2	17	03	20
8	Training	Amala muraba	2	Practicing farmer	2	On/Off	4	2	-	-	18	3	20	05	25
	Field day	Yield increment of Amala Murabba	2	Practicing farmer	2	Off	4	2	-	-	18	3	20	05	25
9	Training	IDM Imidachloprid	2	Practicing farmer	2	On/Off	3	1	-	-	17	4	20	05	25
	Field day	Imidachloprid & its application	4	Practicing farmer	3	Off	3	1	-	-	17	4	20	05	25

10	Training	Scientific cultivation of Maize	1	Rural Youth	1	On/Off	1	2	-	-	5	2	6	4	10
	Field day	Raise Bed Planting - Maize	2	Rural Youth	2	Off	1	2	-	-	5	2	6	4	10
11	Training	Scientific cultivation of Lentil	2	Rural Youth	2	On/Off	-	4	-	-	12	4	12	08	20
	Field	Zero tillage	4	Rural Youth	3	Off	-	4	-	-	12	4	12	08	20
12	Training	IDM in Green gram	1	Practicing farmer	1	On/Off	2	1	-	-	6	1	8	2	10
	Field day	Yield increment of Green gram	2	Practicing farmer	2	Off	2	1	-	-	6	1	8	2	10
13	Training	Press mud application	1	Practicing farmer	1	On/Off	2	1	-	-	6	1	8	2	10
	Field day	Press mud application	2	Practicing farmer	2	Off	2	1	-	-	6	1	8	2	10
14	Training	Application of zinc @ 0.2%, boron @ 0.2%)	2	Rural Youth	2	On/Off	-	4	-	-	12	4	12	08	20
	Field day	Yield increment of Mango	4	Rural Youth	3	Off/on	-	4	-	-	12	4	12	08	20
	Training	Application of Maize Sheller	2	Rural Youth	2	On/Off	-	4	-	-	12	4	12	08	20

15	Field day	Yield increment of maize Sheller	4	Rural Youth	3	Off/on	-	4	-	-	12	4	12	08	20
16	Training	To popularization Nutri garden	2	Rural Youth	2	On/Off	-	4	-	-	12	4	12	08	20
	Field day	To popularization Nutri garden	4	Rural Youth	3	Off/on	-	4	-	-	12	4	12	08	20
17	Training	It application of Vegetable Planter	2	Rural Youth	2	On/Off	-	4	-	-	12	4	12	08	20
	Field day	To popularization of vegetable planter	4	Rural Youth	3	Off/on	-	4	-	-	12	4	12	08	20

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

Name of the Crop / Enterprise	**Variety / Type**	**Period** **From Jan 2022 to Dec. 2022**	**Area (ha.)**	**Details of Production**				
				Type of Produce	**Expected Production (quintals)**	**Cost of inputs (Rs.)**	**Expected Gross income (Rs.)**	**Expected Net Income (Rs.)**
Green gram	Pusa Vishal/IPM2-3	March to May	2ha	FS	16	40000	108000	68000
Paddy	Rajshree	June to October	5 ha	F/S	150	180,000	4,50,000	2,70,000
Red gram	R. Arahar-1	July to April	2 ha	F/S	20	70,000	2,50,000	1,80,000
Wheat	HD-2967	November to April	5 ha	F/S	125	1,30,000	5,62,500	4,32,500
Lentil	HUL-57	Oct. to March	2 ha	F/S	14	40,000	1,54,000	1,14,000
Mustard	R. Suflam	Oct. to March	2 ha	T/L	10	45000	80,000	35,000

Litchi	Shahi/China	June to Oct.	3000 (numbers)	-	2500 (numbers)	30,000	1,25,000	95,000
Guava	Allahabad Sapheda	June to Oct.	500 (numbers)		400 (numbers)	5000	20,000	15,000
Mango	Amarpali/ Malika	-	1000 (Number)	-	500/500	20000	50000	30000

(b) Village Seed Production Programme

Name of the Crop / Enterprise	**Variety / Type**	**Period From Jan. 20 to Dec. 20**	**Area (ha)**	**No. of farmers**	**Details of Production**				
					Type of Produce	**Expected Production(q)**	**Cost of inputs (Rs.)**	**Expected Gross income (Rs.)**	**Expected Net Income (Rs.)**
Paddy	Rajshree	June to October	10 ha	10	C/S	200	3,75,000	6,40,000	2,65,000
Wheat	HD-2967	November to April	10 ha	10	C/S	250	2,60,000	8,00,000	5,40,000

13. Extension Activities

Nature of Extension Activity	**No. of activities**	**Total**		
		Male	**Female**	**Total**
Field Day	16	189	218	407
Kisan Mela	06	3500	500	4000
Kisan Ghosthi	35	1595	305	1900
Workshop	20	800	400	1200
Group meetings	12	310	40	350
Lectures delivered as resource persons	40	32	08	40
Advisory Services	20000	17000	3000	10000
Scientific visit to farmers field	150	120	30	150
Farmers visit to KVK	1220	700	520	1120
Diagnostic visits	130	110	20	130
Exposure visits	5	250	120	370
Soil health Camp	02	80	20	100

Animal Health Camp	02	70	30	100
Soil test campaigns	20	275	75	350
Self Help Group Conveners meetings	7	180	72	252
Mahila Mandals Conveners meetings	1	-	40	40
Celebration of important days (specify)	15	400	250	650
Swatchta Hi Sewa	10	325	175	500
Mahila Kisan Diwas	2	-	280	280
Newspaper coverage	150	-	-	150

14. Revolving Fund (in Rs.)

Opening balance of (As on 31. 12. 2021))	Amount proposed to be invested during 2022	Expected Return
19,44,539.84	**15,00,000**	**25,00,000**

15. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
Short term research	**ATMA**	**2**
CRA Programme	**GoB**	**30**

17. On-farm trials to be conducted*

ON FARM TRIAL (2022)

OFT: 1 (Agricultural engineering)

1	**Title of On Farm Trial**	Evaluation of different packaging materials on shelf life of oyster mushroom.
2	**Problem Diagnose**	Shelf life of oyster mushroom is very low
3	**Details of Technologies selected for assessment/refinement**	F.P. – LDPE films with perforation T.O.I– Use of plastic punnets with PVC film T.O.II– Use of plastic punnets (HIPS) with PVC film and oxygen scavenger. T.O.III– Use of plastic punnets (PVC) with PVC film and oxygen scavenger
4	**Source of Technology**	Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Solan, HP, India
5	**Replication**	5
6	**Production System & Thematic Area**	Food processing and preservation
7	**Performance of Technology with performance indicator**	1. Rehydration ratio 2. Colour 3. Sensory evaluation
8	**Constraints identified and feedback for research**	

9	**Process of farmers participation and their reaction**	

OFT: 2 (Agricultural engineering)

1	**Title of On Farm Trial**	Assessment of performance of different machine for cultivation of Rabi Maize
2	**Problem Diagnose**	Cost of production has been increase day-by-day; it has observed that major expenditure on production has been incurred in connection with labour expenses.
3	**Details of Technologies selected for assessment/refinement**	T0: Line sowing by traditional method (60 X 20cm) T1: Multi crop planter (60 X 30 cm) T2: Raised bed planter (60 X 30 cm)
4	**Source of Technology**	CIAE, Bhopal & Dr. RPCAU, Pusa, Samastipur
5	**Replication**	7
6	**Production System & Thematic Area**	Promotion of farm implements for Crop Production
7	**Performance of Technology with performance indicator**	(a) Plant Height (b) Grain yield (q/ha), (c) Field capacity (ha/h),(d) Gross cost (Rs./ha) (e) Net Return (Rs./ha), (f) B:C ratio (g) water use efficiency (h) Germination percentage
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	Face to face interaction with farmers.

OFT: 3 (Agricultural engineering)

1	**Title of On Farm Trial**	Assessment of performance of different vegetable transplanter in Brinjal
2	**Problem Diagnose**	High cost of cultivation
3	**Details of Technologies selected for assessment/refinement**	T0: (FP) Traditional method T1: Single row vegetable transplanter T2: Double row vegetable transplanter
4	**Source of Technology**	CIAE, Bhopal and Dr RPCAU, Pusa
5	**Replication**	7
6	**Production System & Thematic Area**	Drudgery reduction
7	**Performance of Technology with performance indicator**	(a) Field capacity (ha/h), (b) Plant height , (c) No of fruits/plant , (d) Yield, (e) Cost-benefit analysis
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	Face to face interaction with farmers.

OFT: 1 (Home Science)

1	**Title of On Farm Trial**	To assess the effect of supplementary feed on backyard poultry growth
2	**Problem Diagnose**	Low income in Landless/Marginal farmers
3	**Details of Technologies selected for assessment/refinement**	FP: No Backyard poultry farmers to use supplementary feed for poultry growth T1: Supplementary feed Prepared from BASU, Patna T2: Supplementary feed Prepared from Dr. RPCAU
4	**Source of Technology**	BASU, Patna and Dr. RPCAU Pusa
5	**Replication**	7
6	**Production System & Thematic Area**	Income Generation
7	**Performance of Technology with performance indicator**	A. TECHNICAL OBSERVATION - 1. MORTALITY PERCENTAGE 2. FEED CONVERSION 3. BODY GROWTH AT DIFFERENT WEEK INTERVAL B. ECONOMIC OBSERVATION - B:C RATIO C. SOCIAL OBSERVATION - 1. FEASIBILITY OF TECHNOLOGY 2. ACCEPTABILITY
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	• FACE TO FACE INTERACTION WITH FARMERS • TRAINING • KISHAN GOSTHI

OFT: 2 (Home Science)

1	**Title of On Farm Trial**	Assessment of Dung Collector for cleaning of animal shed
2	**Problem Diagnose**	Cleaning of animal shed activities can cause Musculoskeletal Disorders (MSDs), Occupational Health Hazards and Drudgery
3	**Details of Technologies selected for assessment/refinement**	**FP:** Ttraditional method for collection of dung **T1:** Gopal Khore (AICRP, FRM, College of Home Science, VNMKV, Parbhani, Mharashtra) **T2:** Dung collector (AICRP, FRM, College of Home Science, GBPUA&T., Pantnagar)
4	**Source of Technology**	AICRP Family Resource Management, College of Home Science, VNMKV, Parbhani, Maharashtra and Department of Family Resource Management, College of Home Science, GBPUA&T., Pantnagar
5	**Replication**	7
6	**Production System & Thematic Area**	Drudgery reduction technology
7	**Performance of Technology with performance indicator**	Reduction of MSDs, Drudgery, Health Hazards, Time and Labours Cost and Increase work efficiency
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	• Face to face interaction with farmers • Training • Kishan Gosthi

OFT: 3 (Home Science)

1	**Title of On Farm Trial**	Assessment of preparation method of Carrot jam for more shelf life, enhancement of nutrition and income
2	**Problem Diagnose**	Sell fruits to processors at very low or throw away price
3	**Details of Technologies selected for assessment/refinement**	**FP:** Local people consume fresh carrot as such as vegetables or juice **T1:** Formulation - ingredients: Carrot-1.0 kg, Sugar-1.0 kg, Water-100 ml, Citric acid- 6.0 g, Pectin powder-10 g, Sodium Benzoate -1.0 g **T2:** Formulation - ingredients Carrot-1.0 kg, Sugar-1.0 kg, Water-200 ml, Citric acid- 6.0 g, Pectin powder -10 g, Sodium Benzoate -1.0 g
4	**Source of Technology**	Department of Food and Nutrition, CCS, Dr. R.P.C.A.U., Pusa, Samastipur, Bihar
5	**Replication**	7
6	**Production System & Thematic Area**	Small scale processing and value addition
7	**Performance of Technology with performance indicator**	Keeping quality, Sensory score and Acidity
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	• Face to face interaction with farmers • Training • Kishan Gosthi

OFT: 4 (Home Science)

1	**Title of On Farm Trial**	Assessment of preparation method of Litchi Squash
2	**Problem Diagnose**	Sell fruits to processors at very low or throw away price
3	**Details of Technologies selected for assessment/refinement**	**FP:** Preservation of Litchi Squash by traditional methods **T1:** Formulation - ingredients (Product specifications) Litchi pulp: 25%, TSS:40°B, Acidity:0.8%, 350 ppm SO2 **T2:** Formulation - ingredients (Product specifications) Litchi pulp: 25%, TSS:45°B, Acidity:1.2%, 350 ppm SO2
4	**Source of Technology**	N.R.C.Litchi, Muzffarpur, Bihar
5	**Replication**	7
6	**Production System & Thematic Area**	Small scale processing and value addition
7	**Performance of Technology with performance indicator**	TSS , Acidity , Sensory score and keeping quality
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	• Face to face interaction with farmers • Training • Kishan Gosthi

OFT: 1 (Plant Protection)

1	**Title of On Farm Trial**	Assessment of different chemical compounds for chilli anthracnose management
2	**Problem Diagnose**	Lack of knowledge among farmers
3	**Details of Technologies selected for assessment/refinement**	FP: Removal of affected plant parts TO1: Seed treatment with thiram 75WS @ 4g/kg seeds + spray with captan 70% + hexaconazole 5% WP @ 1 g/l of water at onset of disease TO2: Seed treatment with carbendazim 70WP @ 2.5g/kg seeds + spray with difenconazole 25EC @1ml/l of water at onset of disease
4	**Source of Technology**	IIVR, Varanasi and NIPHM, Hyderabad
5	**Replication**	07
6	**Production System & Thematic Area**	Disease management
7	**Performance of Technology with performance indicator**	Disease incidence and yield will be measured
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	Field visits, group discussion and trainings

OFT: 2 (Plant Protection)

1	**Title of On Farm Trial**	Evaluation of different systemic insecticides for mango hopper management.
2	**Problem Diagnose**	Farmers do not follow timely application of selective insecticides with recommended dosage
3	**Details of Technologies selected for assessment/refinement**	FP: Dimethoate 30EC @ 2ml/l of water TO1: First spray of imidacloprid 17.8% SL @ 0.3ml/l of water at panicle emergence stage followed by second spray 21 days after first spray with thiamethoxam 25 WG @ 0.3gm/l of water and third need based spray of neemazal 3000 ppm @ 3ml/l of water. TO2: Pruning of dense orchards in the month of December, orchard sanitation + first spray of imidacloprid 17.8% SL @ 0.3ml/l at the time of 8-10 cm panicle length followed by Lambda-cyhalothrin 5% EC @ 0.5 ml/l of water at button formation stage.
4	**Source of Technology**	AICRP on fruits, NIPHM Hyderabad
5	**Replication**	7
6	**Production System & Thematic Area**	Integrated pest management
7	**Performance of Technology with performance indicator**	Hopper population, Change in hopper population (%) over FP and crop yield will be analysed
8	**Constraints identified and feedback for research**	
9	**Process of farmers participation and their reaction**	Field visits, group discussion and trainings

OFT-1 (Crop Production)

1.	Title of On farm Trial	Nutrient management in rice based cropping system
2.	Problem diagnosed	Excess application of fertilizer than recommended dose and Zinc Deficiency,
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Integrated nutrient management in rice T0: (FP) 128:92:90 kg NPK ha^{-1} T1: Recommended dosage (120:60:40 kg NPK ha^{-1}) T2: Recommended dosage (120:60:40 kg NPK ha^{-1}) + Zn (5 kg ha^{-1}) T3: Recommended dosage (120:60:40 kg NPK ha^{-1}) + B (1 kg ha^{-1}) T4: Recommended dosage (120:60:40 kg NPK ha^{-1}) + Zn (5 kg ha^{-1}) + B (1 kg ha^{-1})
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	RPCAU, Pusa
5.	Replication	05
6.	Production system and thematic area	Rice *(Kharif)* and Integrated nutrient management
7.	Performance of the Technology with performance indicators	Plant growth parameters, yield and soil analysis (before and after)
8.	Constraints identified and feedback for research	Lack of knowledge regarding identification of zinc deficiency and its management
9.	Process of farmers participation and their reaction	Face to face interaction, training *etc*.

OFT-2 (Crop Production)

1.	Title of On Farm Trial	Management of weeds in Wheat crop
2.	Problem diagnosed	Weed menace in Wheat crop
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	Application of sole or pre-mix herbicides (PoE) T0: (FP) Sulfosulfuron @ 25 g ha^{-1} T1: Carfentrazone-ethyl 20 % WDG @ 20 g ha^{-1} (PoE) T2: Pre-mix herbicide application (PoE) of Sulfosulfuron 25% + Carfentrazone-ethyl 20 % WDG @ 45 g ha^{-1} T3: Total 75 WG (Sulfosulfuron + Metsulfuron) 30 g ha^{-1}
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	AICRP on Weed management, Jabalpur M P.
5.	Replication	05
6.	Production system and thematic area	Wheat *(Rabi)* and Weed management
7.	Performance of the Technology with performance indicators	Weed population, Plant growth parameters and yield
8.	Constraints identified and feedback for research	Lack of knowledge regarding Sole or Post Emergent herbicides application in wheat fields
9.	Process of farmers participation and their reaction	Face to face interaction, training *etc*.

OFT- 1 (Horticulture)

1	**Title of On Farm Trial**	Assessment of HYV of onion in Rabi season
2	**Problem Diagnose**	Poor yield due to old germplasm
3	**Details of Technologies selected for assessment/refinement**	T0: (FP) Local variety T1: Bhima Shakti T2: Bhima Kiran T3: Agri found Dark Red
4	**Source of Technology**	ICAR-DOGR, Pune
5	**Replication**	7
6	**Production System & Thematic Area**	Vegetables cultivation
7	**Performance of Technology with performance indicator**	Yield (Kg/ha), Economic return (B:C ratio)
8	**Constraints identified and feedback for research**	Lack of knowledge and accessibility to improved/HYV of crops
9	**Process of farmers participation and their reaction**	Face to face interaction, training *etc*.

OFT- 2 (Horticulture)

1	**Title of On Farm Trial**	Crop regulation in guava
2	**Problem Diagnose**	Poor fruit quality resulting to low return of cultivation
3	**Details of Technologies selected for assessment/refinement**	T0: (FP) No crop regulation T1: Urea @10% T2: Urea @15% T3: NAA @200ppm
4	**Source of Technology**	CISH-Lucknow
5	**Replication**	5
6	**Production System & Thematic Area**	Orchard management
7	**Performance of Technology with performance indicator**	Yield (Kg/ha), Economic return (B:C ratio)
8	**Constraints identified and feedback for research**	Lack of knowledge regarding crop regulation and orchard management
9	**Process of farmers participation and their reaction**	Face to face interaction, training *etc*

12. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1.	Climate Resilient Agriculture (CRA)	30 lakh
2.	ATMA	2 lakh

13. No. of success stories proposed to be developed with their tentative titles - 04

14. Scientific Advisory Committee

Date of SAC meeting held during 2021	Proposed date during 2022
16.09.2021	19 August 2022

15. Soil and water testing

Details	No. of Samples	No. of Farmers									No. of Villages	No. of SHC distributed
		SC		ST		Other		Total				
		M	F	M	F	M	F	M	F	T		
Soil Samples	515										10	515

16. Fund requirement and expenditure (Rs.)*

S.N.	Heads	Expenditure (last year) (Rs.) up to 31.03.2022	Expected fund requirement (Rs.)
A	**General**		
1	TA	**37000**	2,00,000.00
2	HRD	**22500**	50,000.00
3	**Contingency**		
a	Stationery, Telephone, postage and other exp. On office running including library maintenance and adding books of books and journal	**512163**	5,00,000.00
b	Training of Farmers	**200000**	3,00,000.00
c	Training Materials (poster, charts, demonstration material including chemicals etc. required for conducting the training)		
d	Training of Extension Functionaries		
e	Training of Rural Youth		
f	Frontline Demonstration other than Oilseed & Pulses	**99,997**	1,50,000.00
g	On Farm Testing (on need based, location specified and newly generated information in the major production system of the area)	**74,974**	1,00,000.00
h	Soil & Water testing Lab	-	-
i	Maintenance of Building	**50000**	10,00,000.00
j	Extension Activities/Exhibition, Kisan Mela etc.	**50000**	50,000.00
	Total	**1046634**	**23,00,000.00**