KRISHI VIGYAN KENDRA

ARIARI, SHEIKHPURA (BIHAR) 811105

ANNUAL ACTION PLAN

JANUARY 2024-DECEMBER 2024

Annual Action Plan: 2024

Introduction

Krishi Vigyan Kendra (A Farm Science Centre) Sheikhpura Sponsored by Indian Council of Agricultural Research, New Delhi was established in 1996 at Ariari (Farpar) in the district, Sheikhpura, Bihar under the administrative control of Rajendra Agricultural University Pusa Bihar. On 5th August 2010, with the establishement of Bihar Agricultural University,Sabour Bhagalpur KVK Sheikhpura came under it. Krishi Vigyan Kendra is an innovative district level institution sponsored by the Indian Council of Agricultural Research (ICAR), New Delhi. Its purpose is to disseminate improved technologies in Agriculture and its allied field by organizing regular vocational training as on/off campus to the practicing farmers, farm women and unemployed rural youths/ school dropouts. Training imparted in KVK is entirely need based, skill oriented as well as production based. Local resources are invariably taken into consideration whenever training programme on any discipline is organized.

There are four mandates of Krishi Vigyan Kendra which are given below.

1. Organising Vocational Training Programme in Agriculture and allied enterprises.
2. On Farm testing/on farm trial in crop production. Horticulrure, Plant protection as well as Animal Sciences etc.
3. Frontline demonstration on major cereal crops, Oilseeds, Pulses, Vegetables and other enterprises related to Agriculture.
4. In service training of field level extension officials to update their knowledge in Agriculture.

Background information about Sheikhpura District

Sheikhpura is a new district carved out of Munger District on 31st July 1994. It is situated in the southern part of the Gangetic belt of Central Bihar. It lies between 24^0 45' to 25^0N latitude and 85^0 45' to 86^0 45'E longitude. It is bounded by Nalanda and Patna district in the north Nawada and Jamui district in south, Lakhisarai district in the east, Nalanda and Nawada district in the west.

Total Population	:	5,25,137
Male	:	2,73,468
Female	:	2,51,669
Total Rural Population	:	4,43,837
Male	:	2,30,375
Female	:	2,13,462
SC Rural	:	81,304
Male (SC)	:	41,256
Female (SC)	:	40,048
No. of Litrate	:	2,05,234
Male	:	1,37,116
Female	:	68,118
Density of Population	:	876 per sq. Km.

Climate : The average rainfall of Sheikhpura District is 1207 mm. The maximum and minimum temperature remains 115^0F and 71.8^0 F respectively in summer where as 81.4^0F and 46.8^0F respectively in winter. January is the coldest and May is the hottest month of the year. The whole area receives 80% of the total rainfall during June to September.

Soil : The district has heavy textured alluvial soil tracts while some tracts are corase textured. On an average the fertility of soil is low to medium in nature.

Irrigation : The total cultivable land in Sheikhpura district is 1,39,712 ha, out of which 22% area is irrigated. The source of irrigation are canal, Tube well & well etc. The commonly grown crops of the district are paddy, wheat, pusles, oilseeds, Onions and vegetables.

Cropping Pattern : The commonly adopted cropping pattern of the district are as under :

Rice	:	Wheat	-	Fallow
Rice	:	Gram/Lentil	-	Fallow
Rice	:	Onion	-	Fallow
Pigeon Pea	:	-	-	Fallow
Maize	:	Mustard	-	Fallow
Rice	:	wheat	-	Green gram

Live Stock : The following animals are reared by cattle owner in the district :

Status of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle	**67947**	203841 liters/day	6 Liters/day
Buffalo	45524	136572 liters/day	5 lt/milch animal
Sheep	**1422**	2133 k.g/ annum	1.5 kg/Sheep
Goats	**64753**	518024 kg Meat	8 kg/goat
Pigs	**9433**	113196 kg Meat	12 kg Meat/Pig
Rabbits	156	390 kg	2.5 Kg/Rabbit
Poultry	**39098**	58647 Kg Meat	1.5 Kg/Poultry
Fish	580 ha	1060000 kg	2000 kg/ha

Problems :

- Low productivity of field crops and vegetable crops.

- Low productivity of Milk.
- Non availability of village level enterprises and,
- Unemployment during the off season .

Socio-economic status :

The farmers with rainfed farming situation are economically poor to very poor. Protein calorie malnutrition is a common problems. Lack of educational status, lack of knwoledge of the scientific cultivation method of different crops and lack of village based enterprises has been the main cause of their poor economic condition.

Enterprises :

The main enterprises in the village are agriculture, Dairy, Goatry and Poultry.

Priority thrust areas:

S. No	Thrust areas
1.	Resource conservation and improved production technologies.
2.	Seed Production
3.	IPM and IDM
4.	Diversification to horticultural crops.
5.	Scientific vegetable production
6.	Mushroom production
7.	INM and soil fertility management
8.	Organic farming through vermi composting /NADEP compost, green mauring and bio-fertilizer

Abstract of Plan of training programmes (Jan 2024 to Dec 2024) by KVK, Ariari Sheikhpura.

Sl. No.	Discipline	Duration (days)	Total No. of Course	Total No. of Tr. Day	Participants Trainees (Nos.)								
					SC/ST			Others			Total		
					M	F	Total	M	F	Total	M	F	Total
A. Practicing Farmers/Farm Women													
1.	Crop production	2	24		90	30	120	420	180	600	510	210	720
2.	Horticulture	2	24		90	30	120	420	180	600	510	210	720
3.	Soil Science	2	24		90	30	120	420	180	600	510	210	720
4.	Home Science	2	24		90	30	120	420	180	600	510	210	720
5.	Agri. Engg.	2	12		90	30	120	420	180	600	510	210	720
Total A			**108**		**450**	**150**	**600**	**2100**	**900**	**3000**	**2550**	**1050**	**3600**
B. Rural youth													
1.	Crop production	5	8		40	16	56	160	24	184	200	40	240
2.	Horticulture	5	8		40	16	56	160	24	184	200	40	240
3.	Soil Science	5	8		40	16	56	160	24	184	200	40	240
4.	Home Science	5	8		40	16	56	160	24	184	200	40	240
5.	Agri. Engg.	5	4		20	8	28	80	12	92	100	20	120
Total B			**36**		**180**	**72**	**252**	**720**	**108**	**828**	**900**	**180**	**1080**
C. Extensiion Functionaries													
1.	Crop production	1	5		25	5	30	100	20	120	125	25	150
2.	Horticulture	1	5		25	5	30	100	20	120	125	25	150
4.	Soil Science	1	5		25	5	30	100	20	120	125	25	150
5.	Home Science	1	5		25	5	30	100	20	120	125	25	150

	Agri. Engg.	1	5		25	5	30	100	20	120	125	25	150
Total C			**25**		**125**	**25**	**150**	**500**	**100**	**600**	**625**	**125**	**750**
Grand total A+B+C			**179**		**755**	**247**	**1002**	**3320**	**1108**	**4428**	**4075**	**1355**	**5430**

Plan of Training during Jan 2024- Dec 2024

A. Users'Group: Practicing farmers/Farm Women, Discipline:Agronomy/ CropProduction, KVK, Sheikhpura

Quarter	Thematic Areas	Course title	Duration days	No. of course	Trainees days	Venue	Participants					
							SC/ST		Others		Total	
							M	F	M	F	M	F
No. I April – June 2024	Fodder production	Green fodders production in spring	1	2	60	On	5	2	20	3	25	**5**
	Resource conservation technology	Drought mitigation strategies through drought resistant varieties and contigent crops.	1	2	60	Off	5	2	20	3	25	**5**
	Integrated crop management	Method of hybrid rice production.	1	2	60	Off	5	2	20	3	25	**5**
	Millet Crop	Package and practices of millet and its marketing	2	2	60	On	5	2	20	3	25	**5**
	Weed management	Weed management by different methods in Kharif crops.	1	2	60	Off	5	2	20	3	25	**5**
III July - Sept. 2024	Millet Crop	Cultivation methods of (Ragi(Finger Millet), Bajra (Pearl Millet), Jowar(Sorgham),Chenna (Proso Millet) etc.	2	1	60	Off	5	2	20	3	25	**5**
	Organic farming	Use of Vermicompost, Azolla, BGA and azotobactor in rice crop.	1	1	60	Off	5	2	20	3	25	**5**
	Cropping system	Concept of Intercropping, Arhar + Maize cropping system	2	1	60	On	5	2	20	3	25	**5**
	Weed mangement	Chemical method of weed management in Paddy crop	1	2	60	Off	5	2	20	3	25	**5**
IV Oct – Dec 2024	Millet Crop	Training on post harvest management of millet crop	2	1	60	Off	5	2	20	3	25	**5**
	Cropping system	Intercropping: concept & practice Potato + maize and with Rajmash	1	2	60	Off	5	2	20	3	25	**5**
	Millet Crop	Field day on millet crop	2	1	60	Off	5	2	20	3	25	**5**
	Fodder production	Growing Berseem and Oat for green grasses	1	2	60	Off	5	2	20	3	25	**5**
	Millet Crop	Training on storage and processing of millet crops	2	1	60	Off	5	2	20	3	25	**5**
	Seed production	Seed production technique of different rabi crops	1	2	60	Off	5	2	20	3	25	**5**
	Total		**48**	**36**	**1440**	**-**	**120**	**48**	**480**	**72**	**600**	**120**

Plan of Training during Jan. 2024- Dec.2024

B. Users'Group:Rural Youths, Discipline:Agronomy/ CropProduction,KVK,Sheikhpura

Quarter No.	Themetic Areas	Course title	Duration days	No. of course	Trainee days	Venue	Participats					
							SC/ST		Others		Total	
							M	F	M	F	M	F
I. Jan 2024-	Integrated farming system	Crop production and intensification in Integrated farming system	6	1	180	On	5	2	20	3	25	**5**
March-2024	Seed production	Summer moong seed production	2	1	60	Off	5	2	20	3	25	**5**
II. Apr 2024-Jun 2024	Production of organic inputs	Technique for vemicompost, Azolla and BGA production	6	1	180	On	5	2	20	3	25	**5**
	Crop diversification	Cultivation of course cereals.	2	1	60	Off	5	2	20	3	25	**5**
III. July 2024-Sept. 2024	Seed production	Seed Production of Kharif crops	6	1	180	On	5	2	20	3	25	**5**
		Seed production of Paddy	2	1	60	Off	5	2	20	3	25	**5**
IV. Oct 2024-	Seed production	Seed Production of Rabi crops.	6	1	180	On	5	2	20	3	25	**5**
Dec. 2024	Cropping system	Concept of Two-tier system	2	1	60	Off	5	2	20	3	25	**5**
	Total		**32**	**8**	**960**	**-**	**40**	**16**	**160**	**24**	**200**	**40**

Plan of Training during Jan. 2024- Dec.2024

C. Users'Group:Extension Functionaries, Discipline:Agronomy/ CropProduction,KVK,Sheikhpura

Quarter No.	Themetic Areas	Course title	Duration days	No. of course	Trainee days	Venue	Participats					
							SC/ST		Others		Total	
							M	F	M	F	M	F
Jan. 2024-March-2024	Integraed crop management	Latest advancement(Varieties and technologies) in management of summer crops.	2	1	60	On	5	2	20	3	25	**5**
April-June 2024	Integraed crop management	Latest advancement(Varieties and technologies) in management of kharif crops.	2	1	60	On	5	2	20	3	25	**5**
	Integraed crop management	Latest advancement(Varieties and technologies) in management of kharif crops.	2	1	60	Off	5	2	20	3	25	**5**
July-Sept. 2024	Integraed crop management	Latest advancement (Varieties and technologies) in management of drought	2	1	60	On	5	2	20	3	25	**5**
	Improved technology of crop production	Alternative crop managemnet after flooding or dry situation	2	1	40	Off	5	2	20	3	25	**5**
Oct 2024-Dec-2024	Integraed crop management	Latest advancement(Varieties and technologies) in management of Rabi crops.	2	1	60	On	5	2	20	3	25	**5**
	Integraed crop management	Latest advancement(Varieties and technologies) in management of Rabi crops.	2	1	60	Off	5	2	20	3	25	**5**
	Total.		**14**	**7**	**420**	**-**	**35**	**14**	**140**	**21**	**175**	**35**

Plan of Training during Jan. 2024- Dec 2024

A. Users'Group: Practicing farmers/Farm Women, Discipline:Horticulture,KVK,Sheikhpura

Quarter No.	Themetic Areas	Course title	Course objectives	Duration days	No. of course	Trainee days	Venue	Participats					
								SC/ST		Others		Total	
								M	F	M	F	M	F
I. Jan 2024-March 2024	Medicinal and aromatic plants:	Cultivation of Aromatic and Medicinal Plants.	To create awareness regarding the Cultivation of Aromatic and Medicinal Plants.	2	1	60	On	5	2	20	3	25	**5**
	Medicinal and aromatic plants:	Cultivation of Aromatic and Medicinal Plants.	To create awareness regarding the Cultivation of Aromatic and Medicinal Plants.	2	2	60	Off	5	2	20	3	25	**5**
	Management of young plants and orchards	Management of young plants and orchards	To train about planting distances, layout etc.	2	1	60	On	5	2	20	3	25	**5**
	Off season vegetables	Scientific cultivation of Onion	To develop knowledge and skill in Technique of Onion	2	2	60	Off	5	2	20	3	25	**5**
	Off season vegetables	Production of summer vegetables	To create awareness regarding the grading and standarisation of vegetables.	2	1	60	On	5	2	20	3	25	**5**
	Off season vegetables	Production of summer vegetables	To create awareness regarding the grading and standarisation of vegetables.	2	2	60	Off	5	2	20	3	25	**5**
II. April 2024-June 2024	Layout and management of Orchard	Plantation technique and orchard management	To train about planting distances, layout etc.	2	1	60	On	5	2	20	3	25	**5**
	Layout and management of Orchard	Plantation technique and orchard management	To train about planting distances, layout etc.	2	2	60	Off	5	2	20	3	25	**5**
	Grading and standardizaion	Grading and standardizaion of onion and other vegetables	To create additional benefit	2	1	60	On	5	2	20	3	25	**5**
	Nutrient use efficiency	Use of bio-fertiliser in vegetable crops	To create awareness.	2	2	60	Off	5	2	20	3	25	**5**

	Management of young plants and orchards	Management of young plants and orchards	To train about planting distances, layout etc.	2	1	60	On	5	2	20	3	25	**5**
	Micro irrigation systems of orchards	Micro irrigation systems of orchards of banana and mango	To enhance water use efficiency	2	2	60	Off	5	2	20	3	25	**5**
III. July 2024-Sept 2024	Nursery raising	Nursery raising and Management of ornamental plants	To develop knowledge and skill for Nursery raising .	2	1	60	On	5	2	20	3	25	**5**
	Nursery raising	Nursery raising of vegetables	To develop knowledge and skill for Nursery raising .	2	2	60	Off	5	2	20	3	25	**5**
	Plant propagation technique	Propagation techniques of fruit plants	To develop knowledge and skill in Propagation techniques of fruit plants	2	1	60	On	5	2	20	3	25	**5**
	Plant propagation technique	Propagation techniques of fruit plants	To develop knowledge and skill in Propagation techniques of fruit plants	2	2	60	Off	5	2	20	3	25	**5**
	Off season vegetables	Technique in early vegetable production	To develop knowledge and skill in Technique of early vegetable production	2	1	60	On	5	2	20	3	25	**5**
	Off season vegetables	Technique in early vegetable production	To develop knowledge and skill in Technique of early vegetable production	2	2	60	Off	5	2	20	3	25	**5**
IV. Oct 2024-Dec 2024	Tuber crops: Production	Cultivation of Tuber crops	To improve productivity level of tuber crops	2	1	60	On	5	2	20	3	25	**5**
	Tuber crops: Production	Cultivation of Tuber crops	To improve productivity level of tuber crops	2	2	60	Off	5	2	20	3	25	**5**

	Spices: Production	Package and Practices of Coriander and Methi	To increase the productivity level of spices	2	1	60	On	5	2	20	3	25	**5**
	Spices: Production	Package and Practices of Coriander and Methi	To increase the productivity level of spices	2	2	60	Off	5	2	20	3	25	**5**
	Rejuvenation of old orchards	Rejuvenation of old orchards	To develop knowledge and skill to revive old orchard for normal production	2	1	60	On	5	2	20	3	25	**5**
	Off season vegetables	T echnique in early vegetable production	To develop knowledge and skill in Technique of early vegetable production	2	2	60	Off	5	2	20	3	25	**5**
Total				**48**	**36**	**1440**	**-**	**120**	**48**	**480**	**72**	**600**	**120**

Plan of Training during Jan. 2024- Dec.2024

B. Users' Group:Rural Youths, Discipline: Horticulture, KVK, Sheikhpura

Quarter No.	Themetic Areas	Course title	Objectives	Duration days	No. of course	Trainee days	Venue	Participats					
								SC/ST		Others		Total	
								M	F	M	F	M	F
I. Jan 2024- March 2024	Commercial fruit production	Commercial production	To create awareness regarding Grading and stadarisation ov vegetable	5	1	150	On	5	2	20	3	25	**5**
	Commercial fruit production	Commercial production	To create awareness regarding Grading and stadarisation ov vegetable	2	1	60	On	5	2	20	3	25	**5**
II. April 2024- June 2024	Nursery management	Nursery raising of fruit crops	To develop knowledge and skill for Nursery raising its management for income generation.	5	1	150	On	5	2	20	3	25	**5**
	Nursery management	Nursery raising of fruit crops	To develop knowledge and skill for Nursery raising its management for income generation.	2	1	60	Off	5	2	20	3	25	**5**
III. July 2024- Sept 2024	Nursery management	Nursery Management of vegetable crops	To develop knowledge and skill for Nursery raising its management for income generation.	5	1	150	On	5	2	20	3	25	**5**
	Nursery management	Nursery Management of vegetable crops	To develop knowledge and skill for Nursery raising its management for income generation.	2	1	60	Off	5	2	20	3	25	**5**
IV Oct-2024 Dec 2024	Fruit production	Commercial fruit production technology	To develop knowledge and skill for Commercial fruit production.	5	1	150	On	5	2	20	3	25	**5**
	Seed Production	Seed Production of vegetable crops	To impart knowledge and skill of Seed Production of vegetable crops	2	1	60	Off	5	2	20	3	25	**5**
Total				**28**	**8**	**840**	**-**	**40**	**16**	**160**	**24**	**200**	**40**

Plan of Training during Jan. 2024- Dec.2024

C. Users'Group: Extension Functionaries, Discipline: Horticulture, KVK, Sheikhpura

Quarter No.	Themetic Areas	Course title	Objectives	Duration days	No. of course	Trainee days	Venue	Participats					
								SC/ST		Others		Total	
								M	F	M	F	M	F
I. April 2024-June 2024	Rejuvenation of old orchards	Rejuvenation of old orchards	To develop knowledge and skill to revive old orchard for normal production	2	1	60	On	5	2	20	3	25	**5**
III. Oct. 2024-Dec 2024	Production and management technology	Cultivation of Aromatic and Medicinal Plants.	To create awareness regarding the Cultivation of Aromatic and Medicinal Plants.	2	1	60	On	5	2	20	3	25	**5**
Total				**4**	**2**	**120**	**-**	**10**	**4**	**40**	**6**	**50**	**10**

Plan of Training during Jan. 2024- Dec.2024

A. Users' Group: Practicing farmers/Farm Women , Discipline : Soil Science, KVK,Sheikhpura

Quarter No.	Themetic Areas	Course title	Duration days	No. of courses	Trainee days	Venue	Participats					
							SC/ST		Others		Total	
							M	F	M	F	M	F
I Jan. to March, 2024	Micronutrient deficiency in crops	Identification and management of I icronutrient deficiency in Rabi crcrops	2	1	60	On	5	2	20	3	25	**5**
		Identification and management of I micronutrient deficiency in Rabi crcrops	1	2	60	Off	5	2	20	3	25	**5**
	Soil & water Testing	Methods of soil sampling	2	1	60	On	5	2	20	3	25	**5**
		Methods of soil sampling	1	2	60	Off	5	2	20	3	25	**5**
	INM	I NM in summer crops	2	1	60	On	5	2	20	3	25	**5**
		I NM in summer crops	1	2	60	Off	5	2	20	3	25	**5**
II April to June 2024	Soil & water Testing	Methods of soil sampling	2	1	60	On	5	2	20	3	25	**5**
		Methods of soil sampling	1	2	60	Off	5	2	20	3	25	**5**
	Soil fertility management	Green / Brown manuring	2	1	60	On	5	2	20	3	25	**5**
		Green / Brown manuring	1	2	60	Off	5	2	20	3	25	**5**
	. INM	Soil test based use of fertiliser	2	1	60	On	5	2	20	3	25	**5**
		Soil test based use of fertiliser	1	2	60	Off	5	2	20	3	25	**5**
III July to Sept. 2024	Soil & water conservation	Rain water harvesting methods	2	1	60	On	5	2	20	3	25	**5**
		Rain water harvesting methods	1	2	60	Off	5	2	20	3	25	**5**
	Micronutrient deficiency in crops	Identification and management o of I icronutrient deficiency in Rice	2	1	60	On	5	2	20	3	25	**5**
		Identification and management o of I icronutrient deficiency in Rice	1	2	60	Off	5	2	20	3	25	**5**
	Production and use of organic inputs	Vermicompost production	2	1	60	On	5	2	20	3	25	**5**
		Vermicompost production	1	2	60	Off	5	2	20	3	25	**5**
IV Oct.to Dec. 2024	Soil & water Testing	Methods of soil sampling	2	1	60	On	5	2	20	3	25	**5**
		Methods of soil sampling	1	2	60	Off	5	2	20	3	25	**5**
	INM	I NM in Rabi crops	2	1	60	On	5	2	20	3	25	**5**
		I NM in Rabi crops	1	2	60	Off	5	2	20	3	25	**5**
	Production & use of organic inputs	Producion and use of Vermicompost	2	1	60	On	5	2	20	3	25	**5**
		Producion and Vermicompost	1	2	60	Off	5	2	20	3	25	**5**
	Total.		**48**	**36**	**1440**	**-**	**120**	**48**	**480**	**72**	**600**	**120**

Plan of Training during Jan. 2024- Dec.2024

Users' Group: Rural Youths, Discipline : Soil Science, KVK, Sheikhpura

Quarter No.	Themetic Areas	Course title	Duration days	No. of courses	Trainee days	Venue	Participants					
							SC/ST		Others		Total	
							M	F	M	F	M	F
I Jan.to March 2024	Micronutrients	Deficiency and management of micro-nutrient in crops	5	1	150	On	5	-	25	-	30	-
	Soil Management	Reclamation of problem soils	2	1	60	Off	5	-	25	-	30	-
II **April to June 2024**	Vermiculture	Production and use of vermicompost.	5	1	150	On	5	-	25	-	30	-
	Production of organic inputs	Production and use of Azolla and Blue Green Algae for sustainale agriculture	2	1	60	Off	5	-	25	-	30	-
III **July to Sept. 2024**	Vermiculture	Production and use of vermicompost	5	1	150	On	5	-	25	-	30	-
	Production of organic inputs	Production and use of Azolla and Blue Green Algae for sustainale agriculture	2	1	60	Off	5	-	25	-	30	-
Oct. to Dec. 2024	NADEP Compost	Production and use of NADEP Compost	5	1	150	On	5	-	25	-	30	-
	NADEP Compost	Production and use of NADEP Compost	2	1	60	Off	5	-	25	-	30	-
Total			**28**	**8**	**840**	**-**	**40**	**-**	**200**	**-**	**240**	

Plan of Training during Jan. 2024- Dec.2024

Users' Group: Extension Functionaries, Discipline : Soil Science, KVK,Sheikhpura

Quarter No.	Themetic Areas	Course title	Duration days	No. of courses	Trainee days	Venue	Particpants					
							SC/ST		Others		Total	
							M	F	M	F	M	F
I Jan. to March 2024	Production & use of orgaic inputs	Production and use of Vermi compost / NADEP compost in crops	2	1	60	Off	5	1	20	4	25	5
II April to June-2024	Soil testing	Soil Test : why and How and Recommended use of fertiliser	2	1	60	On	5	1	20	4	25	5
	INM	Basic facts and method of use of Biofertiliser and vermicompost	2	1	60	On	5	1	20	4	25	5
III July to Sept. 2024	Production & use of orgaic inputs	Production and use of green manures	2	1	60	Off	5	1	20	4	25	5
IV Oct. to Dec. 2024	Production & use of orgaic inputs	Production and use of Bio fertiliser in crops	2	1	60	On	5	1	20	4	25	5
Total.			**10**	**5**	**300**	-	**25**	**5**	**100**	**20**	**125**	**25**

Plan of Training during Jan. 2024- Dec.2024

Users' Group: Practicing Farmers, Discipline : Home Sciences, KVK,Sheikhpura

Quarter No. III	Thematic Area	Course Title	Duration /days	No. of course	No. of trainee days	Venue	Participants				Grand Total	
							SC/ST		Others		Total	
							M	F	M	F	M	F
I.Jan. to March 2024	House hold food security	Nutrition gardening	1	2	50		2	3	5	20	7	**23**
	drudgery reduction technologies	Drudgery reduction tools used in agriculture and other house hold activities	2	1	50		2	3	5	20	7	**23**
II.April to June 2024	Storage loss minimization technique	Scientific method of wheat grain storage	1	5	125	ON/OFF	2	3	5	20	7	**23**
	Design and development of low cost diet	Weaning food preparation from locally available material	2	2	100		2	3	5	20	7	**23**
	Value addition	Processing of onion	2	2	100		2	3	5	20	7	**23**
III.July to Sept. 2024	Minimization of nutrient loss in processing	Processing of millets	2	2	100		2	3	5	20	7	**23**
	House hold food security	Nutrition gardening	2	2	100		2	3	5	20	7	**23**
	Value addition	Processing of mango	2	2	100		2	3	5	20	7	**23**
IV.Oct. to Dec. 2024	gender main streaming	SHG formation and functioning	2	2	100		2	3	5	20	7	**23**
	Value addition	Mushroom processing	2	2	100		2	3	5	20	7	**23**
	Value addition	Vegetable processing	2	2	100		2	3	5	20	7	**23**
TOTAL			**20**	**24**	**1025**		**22**	**33**	**55**	**220**	**77**	**253**

Plan of Training during Jan. 2024- Dec.2024

Users' Group: Rural Youth, Discipline : Home Sciences, KVK,Sheikhpura

Quarter No.	Thematic Area	Course Title	Duration /days	No. of course	No. of trainee days	Venue	Participants				Grand Total	
							SC/ST		Others		Total	
							M	F	M	F	M	F
I:Jan. to March. 2024	Mushroom production	Mushroom production	05	1	125	ON	0	5	0	20	0	25
II: April to June 2024	Rural Craft	Textile Craft	15	1	375	ON	0	5	0	20	0	25
II:July to Sept 2024	Small Scale processing	Fruit processing (Mango)	05	1	125	ON	0	5	0	20	0	25
III:Oct. to Dec. 2024	Small Scale processing	Vegetable and Mushroom processing	05	1	125	ON	0	5	0	20	0	25
	Mushroom production	Mushroom production	05	1	125	on	0	10	10	5	10	15
			35	**5**	**875**		**0**	**30**	**10**	**85**	**10**	**115**

Plan of Training during Jan. 2024- Dec.2024

Users' Group: Extension Functionaries, Discipline : Home Sciences, KVK, Sheikhpura

Quarter No.	Thematic Area	Course Title	Duration /days	No. of course	No. of traine e days	Venue	Participants				Grand Total	
							SC/ST		Others		Total	
							M	F	M	F	M	F
I. Jan 2024 to March 2024	Nutritanional garden	Establishment of nutri garden	2	1	50	ON	2	3	5	20	7	**23**
II. April 2024 to June 2024	Low cost and nutrient efficient diet designing	Production techniques for amylase rich food	2	1	50	ON	2	3	5	20	7	**23**
III. July 2024 to Sept 2024	Awarness program on millets	Low cost efficient diet preparation from millets	2	1	50	ON	2	3	5	20	7	**23**
IV. Oct. 2024 to Dec. 2024	Mushroom production	Production techniques for different types of mushroom	2	1	50	ON	2	3	5	20	7	**23**
Total			**8**	**4**	**200**		**8**	**12**	**20**	**80**	**28**	**92**

Plan Of On Farm Trial during 2024 by KVK, Sheikhpura

OFT-1

Crop	Ragi
Season	Kharif/Summer
Main problem	Only cereal centric diet
Main cause	Lack of diet diversification options
Title of OFT	Assessment of different processing method of Ragi flour
Farming situation	
Thematic area	Value addition
Farmer practice	Consumption of wheat and rice as a staple food
Technology option selected for assessment	T1- Making ragi flour by unprocessed ragi grain T2- Making amylase rich flour by malted ragi grain T3-Making ragi flour by using parboiled ragi grain
Source of technology	GBPUA&T, PANTNAGAR
No of trial	10
Detail of critical input	RAGI
Cost of individual critical input	Rs. 1000/-
Total cost of critical input	Rs. 10,000/-
Performance indicator to be recorded	(i) Sensory Evaluation(5 point hedonic table) (ii) Economic indicator (Cost of processing, B:C ratio) (iii) Shelf life

OFT-2

Crop	Rice- Wheat Cropping system (RWCS)
Season	Kharif/Rabi/Summer
Problem	Low profitability of existing cropping system
Main cause	RWCS is irrigation, nutrient and labour intensive leads to non-judicious use of inputs
Title of OFT	Assessment of effect of crop diversification on yield and economics
Farming situation	Sandy loam, Medium to upland , irrigated
Thematic area	NRM
Farmer practice	Rice- Wheat (prominent cropping system of district)
Technology option selected for assessment	TO_1 Farmer practice- Rice- Wheat (prominent cropping system of district) TO_2 Finger millet + Pigeon pea – Onion – Green gram TO_3 Rice – Maize + Potato– Green gram
Source of technology	ICAR-IIMR, Hyderabad-2022 and AICRP- IFS-2019, BAU, Sabour , Bhagalpur
No of trial	10 , Area=($1000m^2$)
Detail of critical input	Nutrient NPK fertilizer, soil sample analysis charges, Seed, pesticides
Cost of individual critical input	Rs. 1000
Total cost of critical input	Rs. 10,000/ha
Performance indicator to be recorded	(i) Technical indicator (Plant height (cm), Dry matter (g/m^2), Rice equivalent yield (Q/ha) , Intercropping yield (Q/ha), Sole crop Yield (Q/ha) etc. (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (i) Farmer perception

OFT-3

Crop	Lentil
Season	Rabi
Problem	Low productivity of lentil
Main cause	Imbalanced use of chemical fertilizer
Title of OFT	To assess the effect of integrated nutrient management on lentil yield
Farming situation	Sandy loam, Medium to upland , Irrigated condition, Previous crop- Paddy
Thematic area	Nutrient management
Farmer practice	N:P:K::10:30:00 Kg /ha
Technology option selected for assessment	TO_1 Farmer practice- N:P:K::10:30:00 Kg /ha TO_2 Recommended practices- N:P:K::20:40:00 Kg /ha + Rhizobium culture TO_3 Recommended practices+20 Kg K_2O/ha TO_4 Recommended practices+20 Kg K_2O/ha+20 Kg Sulphur/ha
Source of technology	Dr. RPCAU, PUSA, Samastipur, Bihar-2015
No of trial	10 , Area=($1000m^2$)
Detail of critical input	NPKS nutrient, soil sample analysis charges and Rhizobium culture
Cost of individual critical input	Rs. 600 approximate Value
Total cost of critical input	Rs. 6,000/ha approximate value
Performance indicator to be recorded	(i) Technical indicator : No. of Plant per square meter, No. of branch per plant , No. of Pods per plant, Test weight (g),Yield (Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (ii) Farmer perception

OFT-4

Crop	**Onion**
Season	Rabi
Problem	Low yield and quality of onion
Main cause	Due to deficiency of micronutrient in the soil
Title of OFT	Effect of micronutrients on growth and total yield of onion (Allium Cepa L.)
Farming situation	Irrigated medium land
Thematic area	Integrated Nutrients management
Farmer practice	Control (Without application of any micronutrients)
Technology option selected for assessment	T1-Soil application of Zinc Sulphate @ 10.0 kg ha-1 Zinc Sulphate T2- Foliar application of Zinc Sulphate @ 0.5 % at30 & 45 days after planting (DAP) T3-Soil application of Borax @ 10.0 kg ha-1 Borax T4- Foliar application of Borax @ 0.25% at 30& 45 DAP T5- Foliar application of Micronutrient Mixture0.5% at 30 & 45 DAP
Source of technology	College of Agriculture, Orisa University of Agriculture and Technology, OUAT, Bhuneshwar
No of trial	4
Detail of critical input	Seed, Zinc Sulphate and Borax
Cost of individual critical input	1000
Total cost of critical input	24000
Performance indicator to be recorded	I. Plant height (cm) II. Average bulb weight (gram) III. Total bulb yield/ plot (kg) IV. Cost of cultivation (Rs/ha) V. Gross return (Rs/ha) VI. B:C ratio

OFT-5

Crop	Potato
Season	Rabi
Problem	Requirement of frequent irrigation in potato
Main cause	Potato requires heavy irrigation
Title of OFT	Ex situ residue management in potato cultivation
Farming situation	Upland Irrigated
Thematic area	RCT
Farmer practice	Sowing in ridge and furrow method
Technology option selected for assessment	T1- Sowing of potato seed with FYM and paddy straw (15cm) T2- Sowing of potato seed with FYM and water hyacinth (15cm), * In T2 and T3 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 third spray with 13:0:45, N:P:K
Source of technology	OFT Finalization Workshop, 23-24 Sept. 2022, BAU Sabour
No of trial	10
Detail of critical input	N:P:K:: 10:26:26, 19:19:19 & N:P:K::13:0:45, paddy straw and water hyacinth
Cost of individual critical input	600
Total cost of critical input	18000
Performance indicator to be recorded	I. Germination percentage II. Growth performance (visual) III. Disease incidence IV. Weed population V. Tuber yield VI. Cost of cultivation (Rs/ha) VII. Gross return (Rs/ha) VIII. B:C ratio

OFT-6

Crop	Rice
Season	Kharif
Problem	Low yield of rice due to imbalance use of nutrients.
Main cause	Micronutrient deficiency
Title of OFT	Integrated Nutrient Management in Rice
Farming situation	Irrigated Medium Land
Thematic area	Integrated Nutrient Management
Farmer practice	No use of BGA and Zinc Sulphate
Technology option selected for assessment	To1- (NPKZn:120:60:40+ 20 Kg Zinc sulphate) To2: NPKZn:100:60:40+ 20 Kg Zinc sulphate + BGA @ 10 Kg/ha
Source of technology	RPCAU, Pusa, Samastipur, Bihar
No of trial	10
Detail of critical input	Urea, SSP, MOP, Zinc sulphate and BGA
Cost of individual critical input	1500
Total cost of critical input	15000
Performance indicator to be recorded	(a) soil analysis (b) Yield and yield attributes (c) Economics

OFT-7

Crop	Wheat
Season	Rabi
Problem	Low yield of Wheat due to imbalance use of nutrients.
Main cause	Micronutrient deficiency
Title of OFT	Integrated Nutrient Management in Wheat.
Farming situation	Irrigated Medium Land
Thematic area	Integrated Nutrient Management
Farmer practice	NPK::110:46:1 Kg
Technology option selected for assessment	To1- NPKZn:100:60:40+25 Kg Zinc sulphate/ha To2: 100:48:40+20 Kg Zinc sulphate/ha + 20 gram PSB / Kg seed
Source of technology	RPCAU, Pusa, Samastipur, Bihar
No of trial	10
Detail of critical input	Urea, SSP, MOP, Zinc sulphate and PSB
Cost of individual critical input	1500
Total cost of critical input	15000
Performance indicator to be recorded	(a) soil analysis (b) Yield and yield attributes (c) Economics

Plan Of Front-Line Demonstration

During Jan-2024 to Dec-2024 by KVK Sheikhpura

A. Based on the final conclusion of the On Farm Trials in Previous years:

Sr. No.	Crop /animal	Thematic area	Technology	Season	Area (Ha)	No.of Demonstration/farmers	Estimated cost (Rs.)
4.	Paddy	INM	Sulpher and Zinc management in rice crop	Kharif 2024	4	10	20,000
7.	Onion	ICM	Demonstration of Kharif Onion	Summer -2024	8	20	20,000
9.	Mango	IDM	Management of fungal diseases and pests in Mango trees and inflorescense.	Rabi 2022-23	4	20	20,000
Total					**185**	**525**	**60,000**

(B) FLD on other than oilseed & Pulses

Sl. No.	Season	Crop	Thematic Area	Technology/Variety	Area (ha)/ Units	No.	Demonstration cost (Rs.)
1	Kharif	Nutrition Garden	Household food security	Vegetables Seed/Sapling+Fruit plants Papaya,Moringa,Guava,Lemon	2.0	50	50,000
2	Kharif	Rice	Biofortified	DRR Dhan 67 and DRR Dhan 69	10	20	7500
3	Rabi	Wheat	ICM	Sabour Nirjal	05	12	17,500
4	Rabi	Tomato	ICM	Samrat	02	30	25,000
5	Rabi	Onion	ICM	NHRDF Red-3	02	20	10,000
6	Rabi	Lentil	Biofortified	IPL 220	4	10	20,000
7	Rabi	Potato	Biofortified	Kufri Neelkanth	0.4	5	20,000

8	Rabi	Mushroom	Mushroom Production	Oyster Mushroom/Button Mushroom (P. florida)	20 units	20	10,000
9	Kharif	Azola	INM	Demonstration of Azola in Paddy	10	25	5,000
10	Khari	Dragon fruit	Crop diversification	Demonstration of Dragon fruit	0.25	10	10,000
Total					**21**	**177**	**1,75,000**

Plan of Extension activities (Jan 2024 to Dec.2024) by KVK Ariari, Sheikhpura

Sl.No.	Activities	No.	Quarter wize Area/ Number				Beneficiaries											
			I	II	III	IV	I			II			III			IV		
							SC	ST	Other	SC	ST	Other	SC	ST	Other	SC	ST	Other
1.	Field Days	12	0	2	4	6	0	-	0	20	-	40	40	-	80	60	-	120
2.	Diagnostic Visit	60	15	15	15	15	-	-	150	-	-	150	-	-	150	-	-	150
3.	Clinic Centre	01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.	Advisory Service	60	15	15	15	15	-	-	200	-	-	200	-	-	200	-	-	200
5.	Publication																	
i)	Popular articles	8	02	02	02	02	-	-	-	-	-	-	-	-	-	-	-	-
ii)	Extension literature	16	04	04	04	04	-	-	-	-	-	-	-	-	-	-	-	-
6.	Farm Science (Club No.)	4	1	1	1	01			20	5	-	20	5	-	20	5	-	25
7.	Kisan Mela	02	-	-	01	01	-	-	-	-	-	-	-	-	-	200	-	1300
8.	Kisan Gosthi	100	25	25	25	25	100	-	400	100	-	400	100	-	400	100	-	400
9.	Farmers helpline	60	15	15	15	15	50	-	100	50	-	100	50	-	100	50	-	100
10.	Exhibition/ Technology week	04	01	01	01	01	100	-	400	100	-	400	100	-	400	100	-	400
11.	Radio/TV Talk	10	02	03	02	03	-	-	-	-	-	-	-	-	-	-	-	-
12.	Ex- Trainees Meet	04	01	01	01	01	25	-	125	25	-	125	25	-	125	25	-	125
Total		**341**	**81**	**84**	**86**	**89**	**275**		**1395**	**300**		**1435**	**320**		**1475**	**540**		**2820**

Senior Scientist and Head
KVK Ariari, Sheikhpura

Director Extension Education
BAU, Sabour, Bhagalpur