Action Plan (2018-19) Krishi Vigyan Kendra, Katihar

1. INTRODUCTION

Krishi Vigyan Kendra, Katihar has been established in February, 2004 at Tingachhiya farm in Katihar district of Bihar. It is an innovative centre of Indian Council of Agricultural Research (ICAR), Pusa, New Delhi under the administrative control of Bihar Agricultural University, Sabour, Bhagalpur Bihar. The centre has the mandated activities of conducting on farm testing/trials (OFTs) with emerging advances in agricultural research for assessing, refining and demonstration of recently released technology to develop location specific sustainable production system and dedicated to organize vocational training in agriculture and allied fields for practicing farmers, farm women and rural youth. The Katihar district is quite suitable for cultivation of Jute, Makhana, Banana, Potato, Maize, Rice, Wheat, Oil seeds and Vegetables crops in different seasons of the year. The productivity enhancement of the field, fiber and horticultural crops with the concept of integrated farming system module are the major arena of thrust for development of agriculture in the district. The main mandates of the KVK, Katihar is:

- > Conduct on farm testing/trials (OFTs), for assessing, refining and documenting agricultural technologies to develop location specific sustainable production system.
- > Conduct front line demonstration (FLDs) on cereals, oilseeds, pulses and, horticultural crops and for generating production data and feedback.
- > Organize vocational training in agricultural and allied sector for practicing farmers, farm women and rural youth with emphasis on learning by doing for self employment and income generation.
- > Organize training for in-service extension personnel for updating their knowledge status.

2. STAFF POSITION

Name of Post	Sanctioned strength	Present position	Date of joining	Remarks
Senior Scientist & Head	1	Dr. Ramanand Singh	26.07.1980	
Subject Matter Specialist (Home Sc.)	1	Smt. Nandita Kumari	23.07.2001	
Subject Matter Specialist (Hort.)	1	Dr. Kameshwari Prasad Singh	10.06.2009	
Subject Matter Specialist (Agronomy)	1	Dr. Sushil Kumar Singh	15.06.2009	
Subject Matter Specialist (Ext. Edu.)	1	Sri Pankaj Kumar	18.11.2009	
Subject Matter Specialist (Soil Sc.)	1	Dr Rama Kant Singh	18.04.2012	
Subject Matter Specialist (Plant Prot.)	1	Vacant		
Programme Assistant (lab. Tech.)	1	Smt. Swarna Prabha Reddy	30.10.2012	
Programme Assistant (Computer)	1	Sri Amarendra Kumar Vikas	13.05.2013	
Farm Manager	1	Sri Om Prakash Bharti	05.11.2012	
Assistant	1	Sri Mukesh Kumar	09.04.2013	
Jr. Stenographer	1	Sri Biswajit Datta	21.06.2013	
Driver (Jeep)	1	Sri Manoj Kumar Prajapati	09.05.2015	
Driver (Tractor)	1	Sri Ram Jee	12.05.2015	
Supporting Staff	1	Sri Sanjay Yadav	01.02.2005	Contractual
Supporting Staff	1	Sri Ganesh Kumar	16.10.2017	Contractual

3. LAND WITH THE KVK

	Total land	20.00 ha
•	Others	7.0 ha
•	Orchard /Agro forestry	5.0 ha
•	Land under shed, Go-down, road threshing floor	2.00 ha
•	Cultivable Land	6.00 ha

4. Location

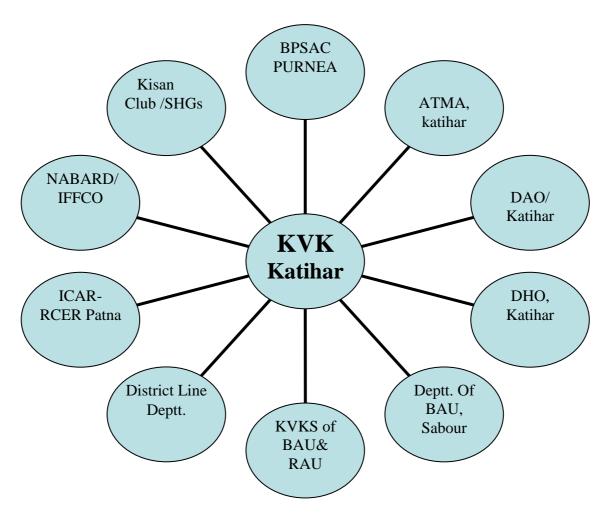
Krishi Vigyan Kendra, Katihar is situated in the south-eastern portion of North Bihar plain. The district came in existence in 1973 carved out from Purnea. It is located on Tingachhiya farm in the district head quarter of Katihar about 3 KM away from the Katihar Railway Station. The nearest airport is Patna in Bihar and Bagdogra in West Bengal. It lies between Latitude 25 'N to 26'N, Longitude 87' to 88'E with an altitude of 20 m above MSL

5. AGRO-CLIMATIC CONDITION

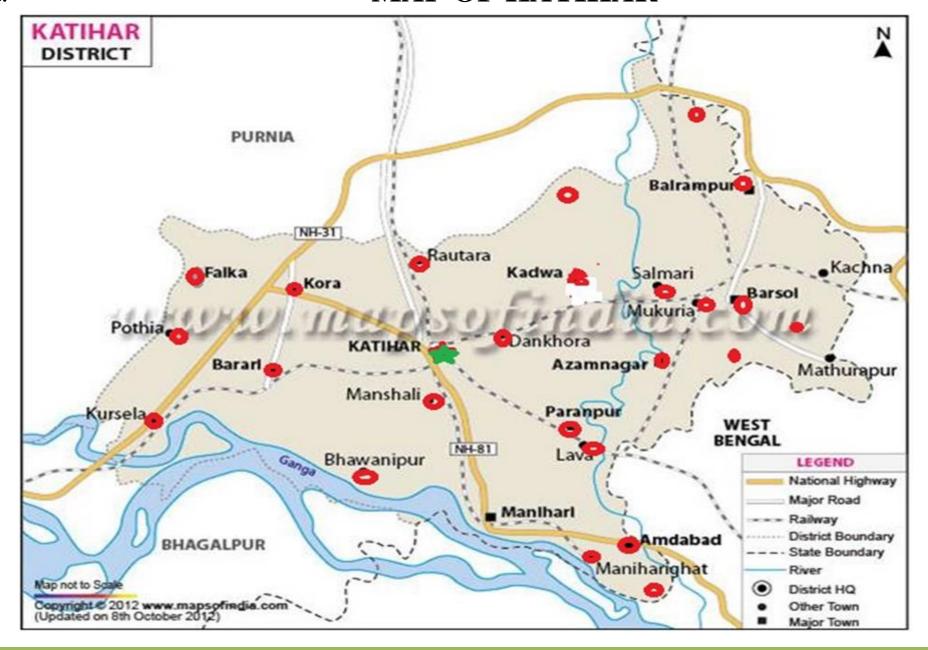
KVK Katihar falls in Agro-climatic Zone-II. The climate is sub-tropical and humid having mean maximum and minimum temperature between 46°C and 4.10°C respectively. The average annual rainfall of the district is about 1298 mm. The maximum rainfall occurs during monsoon period. The soil of the districts generally sandy to sandy loam having alluvial properties due to three major rivers Mahananda, Kosi and Ganga. Low lying areas have clay loam to clay soils. The soils of Katihar district are mostly coarse to medium textured, acidic to neutral in reaction and yellowish white to light gray in color. In basin shaped flood plains, soils are gray colored, medium fine textured and shallow to medium deep soils over sand. The up land coarse textured soils are poor in fertility status as compared to low land soils. The availability of Nitrogen, Phosphorus and Potash is generally low, medium and medium to high respectively. Soils are deficient in Zinc, Sulphar & Boron. The cropping system varies depending on rainfall, land situation and water accumulation in the locality. There are three distinct farming situations viz. Upland, Medium land, low land, Deepwater land having specific characteristic which determine crop sequence/cropping patterns in the district.

6. THRUST AREA

- Crop diversification and intensification in Rice- Wheat cropping system.
- Promotion and adoption of Integrated farming system for the district
- Management of Jute, Banana and Makhana based cropping system
- Popularization of quality seed and planting materials production.
- Adoption of Integrated Nutrient Management for sustainable agriculture.
- Farm women empowerment and Income generation



MAP OF KATIHAR



9. Abstract of Training Programmes:

Action Plan (2018-19)

Discipline	No of Courses	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Participants	
1		Male	Female	Total
				
	Practicing			
Home Science	16	000	400	400
Horticulture	18	450	000	450
Agronomy	14	241	109	350
Extension Education	15	262	113	375
Soil Science	11	202	073	275
Total(A)	74	1155	695	1850
	R	ural Youth		
Home Science	9	000	225	225
Horticulture	8	191	09	200
Agronomy	5	085	40	125
Extension Education	8	140	60	200
Soil Science	8	136	64	200
Total(B)	38	552	398	950
	Ext	ension Function	aries	
Home Science	4	000	100	100
Horticulture	4	78	42	120
Agronomy	5	97	53	120
Extension Education	4	78	42	120
Soil Science	4	78	42	120
Total(C)	21	331	279	580
Grand Total (A+B+C):	133	2038	1372	3380

10. List of location specific thrust areas:

Discipline: Agronomy

- 1. Demonstrations on Seed treatment
- 2. Application of soil test reports
- 3. Introduction of new and improved varieties of pulses and oilseed
- 4. Soil moisture conservation practices, foliar spray of nutrients

Discipline: Horticulture

- 1. Management of Banana
- 2. Balanced Nutrient Management in Horticultural Crops
- 3. Use of improved variety in Vegetables
- 4. Improvement in production of quality vegetables through nursery management & INM

Discipline: Extension Education

- 1. Organization of farmers group and their capacity building
- 2. Promotion of micro financing, linkages with banks
- 3. Promotion of concept of 'farmer as resource person'
- 4. Secondary agriculture and Entrepreneurship development
- 5. Market intelligence
- 6. Promotion of agricultural insurance and subsidiary occupations
- 7. TOT for Knowledge dissemination and boosting rate of adoption of improved technology
- 8. Establishment, strengthening and utilization of linkages and Use of ICT

Discipline: Home Science

- 1. To popularize organic nutritional gardening.
- 2. To aware about vegetable and fruits processing.
- 3. To reduced laborious work through drudgery reduction technologies.
- 4. Empowerment of rural women through employment/self employment.

Discipline: Soil Science

- 1. Awareness & Motivation programme about soil & water testing
- 2. Promotion of soil test based fertilizer application for efficient nutrient utilization
- 3. Cost effective nutrient management
- 4. Soil Management for sustainable Agriculture
- 5. Converting crop waste into vermi compost

11. Training Need

The PRA and other survey methods were implemented in the adopted villages and other survey methods like use interview schedules, questionnaire, secondary data, and discussions with farmers' core group, following conclusions has been drawn

List of location specific training needs

G N.	List of location specific training needs
Sr. No.	Name of Training programme
1.	Crop management in Whorif & Dohi
	Crop management in Kharif & Rabi
2.	wheat cultivation
3.	Soil and water conservation
4.	Soil and water Testing
5.	Nutrient management in Crops
6.	Vermi compost Production
7.	Awareness and use of market intelligence
8.	Participatory Rural Appraisal techniques for extension functionaries
9.	Skill Development programes
10.	Subsidiary occupations
11.	ICT in agriculture
12.	Training methods
13.	Public private partnership
14.	Role Performance of Women in Agriculture and Drudgery Reduction
15.	Importance of balance diet and preparation of low cost nutritious recopies
16.	Health and nutrition care of mother and child
17.	Technique of vegetable dehydration
18.	Oyster mushroom cultivation
19.	Storage of food grains
20.	Nursery management and production technology for Brinjal and Chilli.
21.	Women self help groups and income generating activity.
22.	Techniques of establishment of nutritional garden.
23.	Awareness on nutritional deficiency among children and growing girl.
24.	Energy saving devices for farm women
25.	Processing techniques and value addition in Fruit Crops
26.	Production technology for off season vegetables
27.	IPDM in wheat

Details of Training Programme-(2018-19)

Disci- pline	Qrt No. & Month	Thematic area	Course Title	No of course	Venue off/on			P	artic	ipan	ts	
	1	Practicing Farmers	& Farm Women		campus	S	C	S	T	Ot	hers	Total
						M	F	M	F	M	F	l
		Income Generation	Preparation of potato chips, badi and papad	1	ON/OFF	-	3	-	2	-	20	25
		Nutritional Security	Nutritional Practicesin Dietary pattern women & Children	1	ON/OFF	-	3	-	2	-	20	25
	April to June 18	Gender mainstreaming	Gender mainstreaming and formation of SHGs	1	ON/OFF	-	2	-	3	-	20	25
		Tailoring and Stitching	Cutting and stitching of garment and embroidery works/ Tie Die and Textile design	1	ON/OFF	-	3	-	2	-	20	25
a)		Drudgery reduction	Location specific drudgery reduction technologies in Agriculture	1	ON/OFF	-	3	-	2	-	20	25
ICE	July to	Value addition	Preservation of seasonal fruits pineapple and others	1	ON/OFF	-	2	-	3	-	20	25
cience	Sept.18	Women and child care	Importance and use of balanced diet for childrens and women.	1	ON/OFF	-	3	-	2	-	20	25
Ci		Minimization of nutrient loss in processing	Preparation of energy efficient diet	1		-	3	-	2	-	20	25
S		Mushroom Cultivation	Mushroom cultivation and its importance	1	ON/OFF	-	3	-	2	-	20	25
Je	Oat to	Household food security by kitchen gardening	Importance of Nutritional Kitchen gardening and management	1	ON/OFF	-	3	-	2	-	20	25
ome	Oct to Dec 18	Design and development of low cost diet	Preparation of weaning food for better child growth	1	ON/OFF	-	3	-	2	-	20	25
H		Drudgery Reduction	Introducing of farm implements & modern smokeless chulha	1	ON/OFF	-	3	-	2	-	20	25
		Mushroom Cultivation	Mushroom cultivation and its importance	1	ON/OFF	-	3	-	2	-	20	25
	Ion to	Value addition	Preservation of seasonal location based vegetables	1	ON/OFF	-	3	-	2	-	20	25
	Jan to March 19	Design and development of low cost diet	Preparation of weaning food for better child and mother growth	1	ON/OFF	-	3	-	2	-	20	25
		Women and child care	Importance and use of balanced diet for childrens and women.	1	ON/OFF	-	3	-	2	-	20	25
			TOTAL	16	-		46		34		320	400

Disci- pline	Qrt No. & Month	Thematic area	Course Title	No of course	Venue off/on campus			Pa	rtici	pants		
	1	Practicing Farmers & 1	Farm Women		_	SC		ST	Γ	Othe	ers	Total
		G				M	F	M	F	M	F	
		Seed production	Nursery raising and seed production of vegetable crops	1	ON/OFF	3	-	2	-	20	1	25
	April to	Training and Pruning	Training & pruning of Horticultural crop	1	ON/OFF	3	-	2	-	20	-	25
	June 18	INM	INM in Fruit & vegetable crops	1	ON/OFF	2	-	3	-	20	-	25
	June 18	Export potential Fruit	Scientific Cultivation of Broccole and Sproufig	1	ON/OFF	3	-	2	-	20	-	25
		Plant Propagation	Different methods of propagation	1	ON/OFF	3	-	2	-	20	-	25
		Layout and Management of Orchard	Establishment and management of new Orchard.	1	ON/OFF	3	-	2	-	20	ı	25
م	July to	Protected cultivation	Cultivation of Vegetable under shed net and poly tunnel.	1	ON/OFF	2	-	3	1	20	ı	25
ur	Sept.18	Cultivation of Vegetable	Scientific Cultivation of Brinjal and Bhindi	1	ON/OFF	3	-	2	-	20	ı	25
#		Disease management	IDM of vegetables	1	ON/OFF	3	-	2	-	20	-	25
		Cultivation of Fruits	Scientific cultivation of Tomato	1	ON/OFF	5	-	-	-	20	-	25
Horticulture		Production Technology	Production and management for Medicinal, aromatic plants.	1	ON/OFF	3	-	2	-	20	-	25
Ţ		Seed production	Seed production techniques of potato	1	ON/OFF	3	-	2	-	20	-	25
0,	Oct to Dec 18	Cultivation of Cole's Crops	Scientific Cultivation of Cauliflower and Cabbage.	1	ON/OFF	3	-	2	1	20	1	25
H		Low volume high value crop	Cultivation of flower for income generation	1	ON/OFF	3	-	2	-	20	-	25
		Nursery Raising	Nursery raising for summer vegetable	1	ON/OFF	3	-	2	1	20	-	25
		Production and management	Scientific cultivation of garlic and spices crops	1	ON/OFF	5	-	-	-	20	-	25
	Jan to	Production of crop	Scientific cultivation of summer vegetable	1	ON/OFF	5	-	-	-	20	-	25
	March 19	Production of Medicinal and Aromatic Crops	Scientific cultivation of Medicinal and Aromatic Crops	1	ON/OFF	5	-	-	-	20	-	25
		TO	TAL	18	-	60	-	10	-	360	-	450

Disci-	Qrt No.	Thematic area	Course Title	No of	Venue	Parti	cipan	its				
pline	& Mandh			Course	off/on							
	Month	<u> </u>		S	campus	S	~		T	Oth	ONG	Total
		Practicing I	Farmers & Farm Women			M	F	M	F	M	F	Total
		Nursery Management	Nursery Management of Paddy	1	ON/OFF	7	1	1	4	9	3	25
	April to June 18	Cropping system	Management of Rice-wheat /maize cropping system	1	ON/OFF	9	1	1	4	8	2	25
		ICM	Agronomic management practices of Jute	1	ON/OFF	7	2	1	4	8	3	25
		Crop diversification	Diversification of Rice-Wheat Cropping system	1	ON/OFF	9	1	1	4	8	2	25
Agronomy	July to Sept 18	Resource conservation Technology	Cultivation of Direct Seeded Rice	1	ON/OFF	7	2	1	4	8	3	25
		Weed management	Weed management in Kharif Crops	1	ON/OFF	8	2	1	4	8	2	25
		Water Management	Water management in Paddy	1	ON/OFF	7	2	1	4	8	3	25
		Seed Production	Seed Production of Wheat	1	ON/OFF	8	1	1	4	9	2	25
50	Oct. to	Weed management	Weed management in Rabi crops	1	ON/OFF	7	1	1	4	10	2	25
\blacksquare	Dec. 18	ICM	Scientific Cultivation of Rabi pulses	1	ON/OFF	9	1	1	4	8	2	25
		Fodder management	Scientific Cultivation of fodder	1	ON/OFF	8	2	1	4	8	2	25
	Jan to	Integrated crop Management	Agronomic management practices of Boro Paddy	1	ON/OFF	7	2	1	4	9	2	25
	march,	Weed Management	Weed Management on Boro Rice	1	ON/OFF	9	1	1	4	8	2	25
	19	Integrated farming	Development integrated farming practices	1	ON/OFF	8	2	1	4	8	2	25
			TOTAL	14	-	110	21	14	56	117	32	350

Disci- pline	Qrt No. & Month	Thematic area	Course Title	No of Courses	Venue off/on campus			P	Partici	pants		
		Dunatia	ing Formong & Form Women			S	C	S	T	Oth	ers	Total
		Fracuc	ring Farmers & Farm Women			M	F	M	F	M	F	
		Group Dynamics	Formation and management of SHGs/JIGS	1	ON/OFF	8	2	1	4	8	2	25
		Group Dynamics	Establishment and strengthening of Farmers Club	1	ON/OFF	9	1	1	4	8	2	25
	April - June, 18	Leadership development	Leadership development for technology dissemination	1	ON/OFF	8	2	1	4	8	2	25
		Group Dynamics	Formation and management of SHGs/JIGS	1	ON/OFF	9	1	1	4	8	2	25
6		PRA	Agro ecosystem analysis of adopted village	1	ON/OFF	8	2	1	4	8	2	25
‡		Group Dynamics	Formation and Management of SHGs/JIGS	1	ON/OFF	9	1	1	4	8	2	25
Ca		Mobilization of social capital	Income generation activities among group members	1	ON/OFF	8	2	1	4	8	2	25
Education	July - Sept.,	Entrepreneurial development of farmers/youths	Entrepreneurship Development though poultry	1	ON/OFF	9	1	1	4	8	2	25
	18	WTO and IPR issues	Awareness and use of market intelligence	1	ON/OFF	8	2	1	4	8	2	25
Extension		Entrepreneurial development of farmers/youths	Entrepreneurship Development though poultry	1	ON/OFF	9	1	1	4	8	2	25
xte	Oct	Leadership development	Leadership development for technology dissemination	1	ON/OFF	8	2	1	4	8	2	25
	Dec,18	Production technologies	Productivity enhancement of field crops	1	ON/OFF	8	2	1	4	8	2	25
		Group Dynamics	Formation and management of SHGs/JIGS	1	ON/OFF	9	1	1	4	8	2	25
	Jan	Group Dynamics	Formation and Management of SHGs/JIGS	1	ON/OFF	8	2	1	4	8	2	25
	March,	Entrepreneurial development of farmers/youths	Entrepreneurship Development though poultry	1	ON/OFF	9	1	1	4	8	2	25
		T	OTAL	15	-	127	23	15	60	120	30	375

Disci-	Qrt No.	Thematic area	Course Title	No of	Venue	Par	Participants					
pline	&			Courses	off/on							
	Month				campus			1				1
		Practicing	Farmers & Farm Women				C		T	Oth		Total
				1	OM/OFF	M	F	M	F	M	F	
		Soil and water testing	Methods of soil sampling and analysis	1	ON/OFF	8	2	2	-	14	ı	25
		Production and use	Vermi compost Production techniques,	1	ON/OFF							
	April to	of organic inputs	and its use in crops and cropping system			8	2	1	4	8	2	25
	Jun18		Technique									
		Production and use	Methods of Bio fertilizer production and	1	ON/OFF	9	1	1	4	8	2	25
		of organic inputs	its use				1	1	'	O		23
		Soil fertility	Fertilizer management in Paddy	1	ON/OFF	9	1	1	4	8	2	25
3	July to	management					1	1	'	O		23
Science	Sept18	Micro nutrient	Micro nutrient deficiency symptoms and	1	ON/OFF	8	2	1	4	8	2	25
je.	Бериго	deficiency in crops	its management in crops					1	7	U		23
) (2)		INM	INM in Paddy	1	ON/OFF	9	1	1	4	8	2	25
	Oct to	INM	INM in Maize	1	ON/OFF	9	1	1	4	8	2	25
Soil	DEC18	Nutrient use	Soil & Crop management practices to	1	ON/OFF	8	2	1	4	8	2	25
S	DLC10	efficiency	increase NUE			0		1	7	0	2	23
		Organic farming	To develop knowledge and understanding	1	ON/OFF	9	1	2	3	8	2	25
	Jan to		of organic farming				1	2	3	0	2	23
	march	Soil and water testing	Soil health Management in crops on Soil	1	ON/OFF	9	1	2	3	8	2	25
	19		test basis				1	2	3	0	2	23
		Soil fertility	Fertilizer management in Boro paddy	1	ON/OFF	8	2	1	4	8	2	25
		Management				U		1		U		23
			TOTAL	11	-	94	15	14	38	94	20	275

B. Training for Rural Youth

Discipline	Qrt No. & Month	Thematic area	Course Title	No of Courses	Venue off/on	Part	ticipa	nts tr	ainee	s (No	os)	
	11202202	Rural Y	outh	0041505	campus	SC		ST		Oth	ners	Tot
		Kui ai 1	outh		-	M	F	M	F	M	F	al
	April to June18	Post Harvest Technology	Preparation of potato chips, papar and other products	1	ON/OFF	-	3	-	2	-	20	25
		Rural Craft	Tie, dye &Fabric painting &cloth designing	1	ON/OFF	-	3	-	2	-	20	25
	July to Sept 18	Value Addition	Preservation of seasonal fruits	1	ON/OFF	-	3	-	2	-	20	25
Science		Tailoring and Stitching	Cutting,, stitching and embroidery of women garments	1	ON/OFF	-	3	-	2	-	20	25
	Oct to Dec 18	Mushroom Production	Mushroom cultivation for income generation	1	ON/OFF	-	3	-	2	-	20	25
Home		Rural Craft	Production of decorative items from locally available materials	1	ON/OFF	-	3	-	2	-	20	25
H		Value Addition	Preservation of seasonal vegetables	1	ON/OFF	-	3	-	2	-	20	25
	Jan to March 19	House Hold Food Security	Importance of nutritional kitchen gardening and its management.	1	ON/OFF	-	3	-	2	-	20	25
		Mushroom Production	Different mushroom type, production procedures, and Mushroom products	1	ON/OFF	-	3	-	2	-	20	25
		TO	OTAL	9	_	-	27	-	18	-	180	225

Discipline	Qrt No. & Month	Thematic area	Course Title	No of Courses	Venue off/on	Part	ticipa	nts tra	ainees	s (Nos)		
	<u>. </u>	Rural Y	outh	•	campus	SC		ST		Others	s	Tot
		Kurar I	outh			M	F	M	F	M	F	al
	April to June18	Commercial fruit production	Scientific Cultivation of elephant fruit	1	ON/OFF	3	1	1	ı	20	-	25
		Commercial fruit production	Production, care and Management of Banana	1	ON/OFF	3	1	1	ı	20	-	25
ıre		Nursery Management	Nursery management of vegetable crop and poly tunnel technology	1	ON/OFF	3	1	2	1	19	-	25
Horticulture	July to Sept 18	Planting Material Production	Plant Propagation techniques of fruit crops	1	ON/OFF	3	1	1	1	20	-	25
orti	Oct to Dec 18	Protected cultivation	Protected cultivation of vegetable crops and Simla Mirch	1	ON/OFF	3	1	2	-	19	-	25
		Seed Production	Seed Production of vegetables	1	ON/OFF	3	1	2	-	19	-	25
		Training and pruning of orchards	Training and pruning of orchards	1	ON/OFF	3	1	2	-	19	-	25
	Jan to March 19	Value Addition	Value Addition of Vegetable Crops	1	ON/OFF	3	1	2	-	19	-	25
		TO	TAL	8	-	24	08	13	01	154	0	200

Disciplin e	Qrt No. & Month	thematic area	Course Title	No of Courses	Venue off/on campus	Part	ticipa	nts tr	ainee	s (Nos	s)	
			Dermal Warr4h			SC		ST		Oth	ers	Total
			Rural Youth			M	F	M	F	M	F	
	April to June18	Crop diversification	Diversification of Rice Wheat Cropping system	1	ON/OFF	9	1	1	4	8	2	25
Agronomy	July to Sept 18	Seed production	Seed Production of Paddy	1	ON/OFF	7	2	1	4	8	3	25
n 0	Oct. to Dec. 18	Seed production	Seed Production of wheat	1	ON/OFF	7	2	1	4	8	3	25
2		ICM	Agronomic management practices of Maize	1	ON/OFF	9	1	1	4	8	2	25
Ag	Jan to March19	Integrated farming System	Integrated farming System	1	ON/OFF	8	2	1	4	8	2	25
		Ţ	TOTAL	5	-	40	08	05	20	40	12	125

Discipline	Qrt No. & Month	Thematic area	Course Title	No of Courses	Venue off/on campus	Participants trainees (Nos)					os)	
		n	ound Vauth	•	•	SC		ST		Oth	ers	Total
		K	Rural Youth			M	F	M	F	M	F	1 Otai
	April to	Entrepreneurial development of farmers/youths	Entrepreneurship Development through poultry	1	ON/OFF	9	1	1	4	8	2	25
	June18	Entrepreneurial development of farmers/youths	Entrepreneurship Development through fisheries	1	ON/OFF	8	2	1	4	8	2	25
ation	July to Sept	Entrepreneurial development of farmers/youths	Entrepreneurship Development through dairy	1	ON/OFF	9	1	1	4	8	2	25
duca	18	Entrepreneurial development of farmers/youths	Entrepreneurship Development through Beekeeping	1	ON/OFF	8	2	1	4	8	2	25
ion I	Oct to	Entrepreneurial development of farmers/youths	Entrepreneurship Development through Beekeeping	1	ON/OFF	8	2	1	4	8	2	25
Extension Education	Dec18	Entrepreneurial development of farmers/youths	Entrepreneurship Development through Poultry	1	ON/OFF	9	1	1	4	8	2	25
A	Jan to	Entrepreneurial development of farmers/youths	Entrepreneurship Development through fisheries	1	ON/OFF	8	2	1	4	8	2	25
	March19	Entrepreneurial development of farmers/youths	Entrepreneurship Development through Poultry	1	ON/OFF	9	1	1	4	8	2	25
			TOTAL	8	-	68	12	8	32	64	16	200

Discipline	Qrt No. & Month	Thematic area	Course Title	No of Courses	Venue off/on campus	Participants trainees (Nos)					os)	
	-	R	ural Youth	1	•	SC	ı	ST	1		ners	Total
						M	F	M	F	M	F	10111
	April to June	Vermiculture	Vermi composting for income generation	1	ON/OFF	7	2	1	4	8	3	25
	18	Organic manures production	Organic manures production techniques	1	ON/OFF	9	1	1	4	8	2	25
d)	July to Sept. 18	Vermi-compost production	Vermi-compost production and marketing	1	ON/OFF	7	2	1	4	8	3	25
Science		Bio-fertilizer production	Bio-fertilizer production marketing	1	ON/OFF	9	1	1	4	8	2	25
l Sci	Oct. to Dec. 18	Vermi-compost production	Vermi-compost production and marketing	1	ON/OFF	7	2	1	4	8	3	25
Soil		Vermiculture	Vermi composting for income generation	1	ON/OFF	7	2	1	4	8	3	25
S	Jan to March 19	Bio-fertilizer production	Bio-fertilizer production marketing	1	ON/OFF	9	1	1	4	8	2	25
		Organic manures production	Organic manures production techniques	1	ON/OFF	9	1	1	4	8	2	25
		1	TOTAL	8	-	64	12	08	32	64	20	200

C. Training for Extension Functionaries

Discipline	Qrt No. & Month	Thematic area	Course Title	Duration (days)	Venue off/on campus	Participants trainees (Nos)						
	F	xtension Fun	ectionaries		campus	SC		ST		Oth	ers	Total
		Attision I un	etionaries			M	F	M	F	M	F	
(1)	April to July18	Planting Material Production	Plant Propagation techniques in fruit crop	1	ON/OFF	-	1	2	-	22	-	25
	Aug to Sept	ICM	Package and practices of Jute	1	ON/OFF	2	1	2	-	20	-	25
Horticulture	18	Crop Production	Scientific Cultivation of Cauliflower	1	ON/OFF	7	2	1	4	11	5	30
orti	Oct to Dec 18	Protected cultivation	Protected cultivation of Tomato, Simla mirch, cucumber, garden pea	1	ON/OFF	3	1	2	-	19	-	25
Ħ	Jan to March 19	Care and manage fruit Orchard	Proper care and management of fruit Orchard	1	ON/OFF	3	1	2	-	19	-	25
		TOTAL		5	-	15	6	9	4	91	5	130

Discipline	Qrt No. & Month	Thematic area	Course Title	Duration (days)	Venue off/on campus	Pa	Participants trainees (Nos)				s)	
		Extensi	on Functionaries			SC		ST		Oth	ers	Total
		LACISI	on Functionalies			M	F	M	F	M	F	
	April to June 18	ICM	Agronomic Management practices of Jute	1	ON/OFF	7	2	1	4	11	5	30
gronomy	July to Sept. 18	Productivity enhancement in field crops	Agronomic Management practices of paddy	1	ON/OFF	8	2	1	4	11	4	30
	Oct. to Dec. 18	RCT	Sowing of Wheat by technology	1	ON/OFF	7	2	1	4	11	5	30
lack lac	Jan. to March 19	Integrated farming system	Integrated farming system	1	ON/OFF	8	2	1	4	11	4	30

								,	
TOTAL	4	-	30	8	4	16	44	18	120

Discipline	Qrt No. & Month	Thematic area	Course Title	Duration (days)	Venue off/on campus	Participants trainees (Nos)					os)	
		Extensio	n Functionaries			SC		ST		Othe	ers	TOTAL
		D ACCIBIO				M	F	M	F	M	F	
ıtion	April to June 17	Formation and Management of SHGs	Formation and Management of kisan club and SHGs and JLGS	1	ON/OFF	7	2	1	4	11	5	30
Education	July to Sept 17	Leadership development	Leadership development for Agro tech dissemination	1	ON/OFF	8	2	1	4	11	4	30
Extension E	Oct to Dec 17	Information networking among farmers	ICT practices for information and networking among farmers	1	ON/OFF	7	2	1	4	11	5	30
Exte	Jan to March 18	Entrepreneurial development of farmers/youths	Entrepreneurial development of farmers/youths	1	ON/OFF	8	2	1	4	11	4	30
	<u>'</u>	TOTAL		4	-	30	8	4	16	44	18	120

Discipline	Qrt No. & Month	Thematic area	Course Title	Duration (days)	Venue off/on campus	Par	Participants trainees (Nos)					s)
		Extension	n Functionaries			SC		ST		Othe	rs	TOTAL
		LACTISIO	i i dictionalies			M	F	M	F	M	F	
	April to June 18	Soil and Water Testing	Methods of soil sampling and analysis	1	ON/OFF	7	2	1	4	11	5	30
science	July to Sept 18	INM	INM in crops and cropping system	1	ON/OFF	7	2	1	4	11	5	30
	Oct. to Dec. 18	INM	Green mannuring and use of bio fertilizer	1	ON/OFF	8	2	1	4	11	4	30
Soil	Jan. to March 19	Production and use of organic inputs	Methods of vermi compost Production and its use in crops	1	ON/OFF	8	2	1	4	11	4	30
		TOTAL	1 [4	-	30	8	4	16	44	18	120

Discipline	Qrt No. & Month	Thematic area	Course Title	Duration (days)	Venue off/on campus	Part	Participants trainees (Nos)					
		Extension	n Functionaries			SC		ST		Others		TOTAL
		LACTISIO	in a directional les			M	F	M	F	M	F	
	April to June 17	Household food security	Nutritional backyard kitchen gardening.	1	ON/OFF	-	3	-	2	-	20	25
Science	July to Sept 17	Gender main streaming	Entrepreneurship development and women empowerment	1	ON/OFF	-	3	-	2	-	20	25
	Oct. to Dec. 17	Women and Child Care	Women and Child Care Practices	1	ON/OFF	-	3	-	2	-	20	25
Home	Jan. to March 18	Rural Craft	Training on different type of State Embroidery	1	ON/OFF	-	3	-	2	-	20	25
		TOTAL		4	-	-	12	-	8	-	80	100
Grand To	otal			21	-	105	42	21	60	223	139	590

Thematic Area	Title	No of	Venue	No	of P		
		Courses		SC	ST	Others	Total
(D) Sponsored							
Integrated crop management	Productivity enhancement through SRI	1	ON/OFF	5	2	23	30
Integrated crop management	Agronomic Managements Practices of oilseeds and pulses	1	ON/OFF	5	2	23	30
Integrated crop management	Agronomic Managements Practices of Jute	1	ON/OFF	5	2	23	30
Production of low vol high	Cultivation of cool season vegetables	1	ON/OFF	5	2	23	30
value crop							
Installation and maintenance of micro irrigation system	Use of low energy water application devices in horticultural crops for high profitability	1	ON/OFF	5	2	23	30
women Empowerment	Income generation activities though mushroom	1	ON/OFF	5	2	23	30
women Empowerment	cultivation & value Addition	1	010011				30
Entrepreneurship Development	Entrepreneurship Development through poultry	1	ON/OFF	5	2	23	30
Entrepreneursing Development	Total	7	011/011	35	14	181	210
(E)Wasstianal	10141	,		35	17	101	210
(E) Vocational Seed Production	Seed production of paddy and Wheat	1	ON/OFF	5	2	23	30
Planting material Production	Techniques of Graft, gouty	1	ON/OFF	5	2	23	30
	1						
Seed Production	Seed Production technique of Potato	1	ON/OFF	5	2	23	30
Vermiculture	Vermicompost production	1	ON/OFF	5	2	23	30
Beekeeping	Entrepreneurship Development through Beekeeping	1	ON/OFF	5	2	23	30
Mushroom Production	Mushroom Production technology	1	ON/OFF	5	2	23	30
Repair & Maintenance	Repair and Maintenance of plant protection equipments	1	ON/OFF	5	2	23	30
Planting Material Production	Techniques of graft, gouty in propagation of fruit plants.	1	ON/OFF	5	2	23	30
Seed production	Seed production of vegetables	1	ON/OFF	5	2	23	30
Tailoring and Stitching	Women dress designing	1	ON/OFF	5	2	23	30
Value Addition	Preservation of seasonal fruits and vegetables	1	ON/OFF	5	2	23	30
	TOTAL	11		55	22	253	330

12. Frontline Demonstration

Crop/Enterprise	Component/Variety	No. of demonstration	No. of area (ha)
	Kharif		_
Jute	JRO-204	30	12
Paddy	Seed (Swarna Sub-1) & Chemicals	15	6
Nutritional garden	Seed	12	
Fodder Maize	J-1006	25	10
Paddy	R. Sweta, Dhaincha, Chemical & CLCC	20	08
Paddy	Sahbhagi and biofertilizers	10	04
Poultry	Vanraja	30	500 chicks
Crop/Enterprise	Component/Variety (Rabi)	No. of demonstration	No. of area (ha)
Wheat	Seed (HD-2967) & Bio-fertilizer	25	10
Wheat	Seed (DBW-14)	20	8
Vermi composting	Worms	30	30

13. Seed and planting material production

Seed Production		
Crop	Variety	Area(ha)
Paddy	Swarna Sub-1	2.5
Paddy	RM-1	0.8
Arhar	NDA-1/Malviya	1.2
Wheat	HD-2967	3.3

14. Extension Activities

Name of Extension Activities	No.	Participants
Field Day	09	480
Kisan Mela	02	1200
Kisan Ghosthi	4	300
Kisan Chaupal	40	1200
Exhibition	1	200
Film Show	10	700
Farmers Seminar	2	150
Workshop	1	150
Group meetings	5	200

Total	1776	7830
Celebration of important days	05	250
Self Help Group Conveners meetings	05	250
Animal Health Camp	02	100
Soil health Camp	05	300
Ex-trainees Sammelan	02	100
Exposure visits	03	150
Farmers visit to KVK	1600	1600
Scientific visit to farmers field	80	500

ON FARM TRIAL (Home Science)

SN	Particulars	Description	
1.	Intervention	Use of modified plastic rain coat for working women in rainy days for rice planting	
2.	Title	Increase working efficiency in rainy days	
3.	Micro farming situation	Rain fed	
4.	Thematic area	Drudgery Reduction	
5	Problem	Due to working in direct rain it reduce the working efficiency of women and adversely affect on health	
6.	Intervention Planned	Use of Modified Plastic rain coat	
7.	Source of technology	KVK, Kosbad Hill	
8.	Technology option	TO ¹ - Farmer's Practice, do not plastic bag to protect form rain TO ² - Use of simple plastic bag to protect from rain. TO ³ -Use of Modified plastic raincoat to be convenient while working in rainy days	
9.	No of replication	10 Farm Women	
10.	Perform indicator	A. Suitability & Convenient of rain coatB. Working efficiencyC. Health	
		Farmers' reaction/ feedback	
		After getting Result	

ON FARM TRIAL (Home Science)

SN	Particulars	Description	
1.	Intervention	Home Science	
2.	Title	Use of Bio fortified(Red) Rice in daily consumption to overcome malnutrition for the women	
3.	Micro farming situation	Home stead	
4.	Objective	 To create awareness of food &Nutrition requirement of the Aganvadi Mahila To Prepare Bio- fortified rice recipes 	
5	Thematic area	Nutritional security	
6.	Problem Diagnose	Under nourishment /malnourishment of infants adolescent girls in rural area. Due to lack of iron, Calcium, Protein rice food	
7.	Potential solution	Enrichment of bio-fortified rice recepes Bengal gram+jaggary+leafvegetable(Drum Stick Leaves)+milk	
8.	Source of technology	NAU, Navsari	
9.	Technology option	TO ¹ - Traditional Practice, existing dietary pattern TO ² - Traditional Practice+Bio-fortified Rice recipes TO ³ -Bio-fortified Rice recipes+Bengal gram+jaggary+leafvegetable(Drum Stick Leaves)+milk	
10.	No of farmer	9 women	
11.	Critical input	Bio-fortified Rice recipes+Bengal gram+jaggary+leaf vegetable(Drum Stick Leaves)+milk	
12.	Perform indicator	Weight Kg- 1. Initial Weight 2. Final Weight (3 months interval) Measure of the HB Level Before practice and after three months of practices Farmers' reaction and feedback	

SN	Particulars	Description	
1.	Intervention	Soil science	
2.	Title	Assess the Effect of Azolla to Reduce Chemical NPK Consumption During Rice Cultivation	
3.	Micro farming situation	Medium irrigated Land	
4.	Production system	Rice- Wheat/Maize	
5	Thematic area	Integrated Nutrient management	
6.	Problem	Higher cost of cultivation and hazardness impact on soil as well as environmental health due to chemical fertilizers	
7.	Potential solution	Multi-locational field trial for save half of recommended NPK through green manuring of Azolla.	
8.	Source of technology	BAU, Sabour	
9.	Technology option	TO ₁ – Farmer Practice (150: 20:10 :: N:P:K kgha ⁻¹) TO ₂ – RDF (100:40:20 :: N:P:K kgha ⁻¹) TO ₃ - RDF (50:20:10 :: N:P:K kgha ⁻¹) + Azolla @ 10 t ha ⁻¹	
10.	Plot Size	0.10 ha	
11	No of farmers	10	
12.	Critical input	Seed, nutrients, chemicals & Azolla	
13.	Performance indicator	Technical observations	
		No. of tillers, plant height, no. grains/panicle, Grains & straw yield	
		Economic Indicator	
		Gross return, Net return, BC ratio	
		Farmers' reaction/ feedback	

ON FARM TRIAL (Soil Science)

SN	Particulars	Description
1.	Intervention	Soil science
2.	Title	Assess the effect of Blue Green Algae (BGA) for Nitrogen Supplementation in Rice Crop
3.	Micro farming situation	Medium irrigated Land
4.	Production system	Rice-Wheat/Maize
5	Thematic area	Integrated Nutrient management
6.	Problem	Higher uses of Urea
7.	Potential solution	Multi-locational field trial for uses of BGA for Supplementations of Nitrogen in Rice Crop
8.	Source of technology	BAU Sabour
9.	Technology option	TO ₁ – Farmer Practice (150:20:10 :: N:P:K kgha ⁻¹) TO ₂ – RDF (100:40:20 :: N:P:K kgha ⁻¹) TO ₃ - RDF (75:40:20 :: N:P:K kgha ⁻¹) + BGA Culture 10 kg ha ⁻¹
10.	Plot Size	0.10 ha
11	No of farmers	10
12.	Critical input	Seed , nutrients, chemicals & BGA
13.	Performance indicator	Technical observations
		No. of tillers, plant height, no. grains/panicle, Grains & straw yield
		Economic Indicator
		Gross return, Net return, BC ratio
		Farmers' reaction/ feedback

SN	Particulars	Description	
1.	Intervention	Soil Science	
2.	Title	Assess the effect of organic and bio fertilizer on growth and yield of maize and physico-chemical properties of soil	
3.	Micro farming situation	Micro farming situation	
4.	Production system	Paddy-maize/wheat	
5	Thematic area	INM	
6.	Problem	No uses of bio fertilizer and minimum uses of organic manure in maize due to that soil becomes sick and the production is affected.	
7.	Potential solution	Application of required amount of bio fertilizer with organic manures to make soil sustainable with yield enhancement and there will be a necessity for sustainability	
8.	Source of technology	UAS, GKVK, Bangalore, India	
9.	Technology option	TO ₁ – Farmer Practices (200:40:20 :: N:P:K)	
		TO ₂ – 75 % RDF (150:60:40 :: N:P:K) + 25 % through Vermicompost with Zn 25 kg and B 10 kg/ha)	
		TO ₃ – 75 % RDF (150:60:40 :: N:P:K) + 25 % through Vermicompost with Azotobactor and PSB)	
		TO4 – 100% RDF (150:60:40 :: N:P:K) + Zn 25 kg and B 10 kg/ha	
10.	Plot Size	0.10 ha	
11	No of farmer	10	
12	Critical input	Seed, Organic and inorganic Fertilizers	
13.	Performance indicator	Technical observations	
		Initial and final soil analysis, Plant height, , No of grains per cob, grain and straw yield	
		Economic Indicator	
		Net return, B:C ratio	
		Farmers' reaction/ feedback	

OFT -1

ON FARM TRIAL (Agronomy)

SN	Particulars	Description	
1.	Intervention	Agronomy	
2.	Title	Integrated weed management in Green Gram	
3.	Micro farming situation	Medium to Low land	
4.	Production system	Rice-Wheat- Green Gram	
5	Thematic area	Weed management	
6.	Problem	Poor Weed management is an important reason for low productivity of green gram in Koshi region of Bihar	
7.	Potential solution	Integrated weed management is am important key factor for enhancing the productivity of green gram as weeds	
		complete for nutrients, Water, light and space with crop plants during early growth period.	
8.	Source of technology	JAU, Junagarh	
9.	Technology option	TO ₁ Farmers Practice (Hand weeding at 35 DAS)	
		TO 2 Pendimethaline 1.0 kg ai/ha(pre emergence)	
		TO ₃ Quizalofop-ethyl @40 gm a.i /ha at 20 DAS	
		TO ₄ Quizalofop-ethyl @50 gm a.i /ha at 30 DAS	
10.	Plot Size	0.10 ha	
11	No of farmer	10	
12.	Critical input	Seed, Chemicals	
13.	Performance indicator	Technical observations	
		Seed yield(q/ha), Stover yield (q/ha)	
		Economic Indicator	
		Cost of cultivation (Rs/ha), Gross return(Rs/ha),, Net return(Rs/ha),BC ratio	
		Farmers' reaction/ feedback	

OFT -2

SN	Particulars	Description	
1.	Intervention	Agronomy	
2.	Title	Effect of different types of spacing on fibre yield of Jute.	
3.	Micro farming situation	Medium to Low land	
4.	Production system	Jute- Maize	
5	Thematic area	ICM	
6.	Problem	sowing of Jute seed by majority of farmers by broadcasting method restricts inter cultural operation which result in low fibre yield	
7.	Potential solution	Plant density is an important yield contributing factors which can be manipulated in Jute to	
		attain higher fibre production per unit area.	
8.	Source of technology	JRS, Katihar	
9.	Technology option	1 Farmers Practice (Broadcasting)	
		2 Sowing Jute seed at 25X7 cm spacing	
		3 Sowing Jute seed at 30X7 cm spacing	
		4 Sowing Jute seed at 35X7 cm spacing	
10.	Plot Size	0.10 ha	
11	No of farmers	10	
12.	Critical input	Seed	
13.	Performance indicator	Technical observations	
		Plant height, basal diameter, green weight, fibre weight, fiber yield	
		Economic Indicator	
		Gross return, Net return, BC ratio	
		Farmers' reaction/ feedback	

OFT -1

ON FARM TRIAL (Extension Education)

ntervention Citle Micro farming situation Production system Chematic area Problem Potential solution	Extension Education Evaluation of suitable wheat cultivar for late sown condition in paddy wheat cropping system Medium to Low land Rice-Wheat/Maize Crop Production Farmers of Katihar district were unaware about best suited variety of wheat under late sown condition which results in low productivity of wheat. In the view of above problem selection and cultivation of proper/ suitable varieties of prime
Aicro farming situation Production system Thematic area Problem	Medium to Low land Rice-Wheat/Maize Crop Production Farmers of Katihar district were unaware about best suited variety of wheat under late sown condition which results in low productivity of wheat.
Production system Chematic area Problem	Rice-Wheat/Maize Crop Production Farmers of Katihar district were unaware about best suited variety of wheat under late sown condition which results in low productivity of wheat.
Problem	Crop Production Farmers of Katihar district were unaware about best suited variety of wheat under late sown condition which results in low productivity of wheat.
Problem	Farmers of Katihar district were unaware about best suited variety of wheat under late sown condition which results in low productivity of wheat.
	condition which results in low productivity of wheat.
Potential solution	In the view of above problem selection and cultivation of proper/ suitable varities of prime
	importance.
ource of technology	BAU,Sabour
Technology option	TO_1 = Farmers practice (PBW-373) TO_2 = DBW-14 TO_3 = Sabour Shreshta
Plot Size	0.10 ha
No of farmers	10
Critical input	Seed and chemicals
Perform indicator	Yield(q/ha) Cost of cultivation(Rs/ha), Gross return(Rs/ha), Net return(Rs/ha) Farmers' reaction/ feedback
J(o of farmers

Field Study - 1

SN	Particulars	Description
1.	Intervention	Extension Education
2.	Title	Non availability of technical Know-how at critical time
3	Thematic area	ICT
4.	Name of Technology	Video Conferencing
5.	Source of technology	BAU,Sabour
6.	Technology Assessment	Farmers receiving information through Video Conferencing
7	No of video conferencing attend	120
	farmers	
8.	Performance indicator	Percentage increase in Knowledge through Video Conferencing, Percentage increase in
		adoption through Video Conferencing

OFT-2 Assessment of effectiveness of FFS on Paddy Production technology under KVK-ATMA Convergence		
Problem Diagnose	Farmers not Participated in farmers field school	
Thematic Area	KVK- ATMA Convergence	
No. of technology	5	
Farmers Practices(T ₁)	Farmers not Participated in farmers field school 60 farmers	
Recommended Tech(T ₂)	Farmers Participated in farmers field school 60 farmers	
Performance parameter	Extent of adoption, Knowledge level. Change in skill, Change in attitude, Feedback of FFS farmers	

15. Scientific Advisory Committee

	Proposed date
8 th SAC meeting	08/08/2018

16. Soil and water testing

	No. of samples to be analyzed		
Soil Testing	1000		

17. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building		✓		
Trainees' hostel	✓			
Staff quarter	✓			
Demonstrations:				
I) IFS	✓			
II)Mushroom Cultivation Unit				