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	KRISHI VIGYAN KENDRA. K	KATIHAR	

KRISHI VIGYAN KENDRA, KATIHAR

INTRODUCTION

Krishi Vigyan Kendra, Katihar established in March 2004 is situated in the district of Katihar in Kosi Zone in the North-East alluvial plain of North Bihar. During short span life of seven years Krishi Vigyan Kendra, Katihar has shown its presence in the district by imparting short and long term vocational training to farmers', rural youth and farm women. The recent technologies for sustainable agriculture were disseminated to the extension personal posted in the district. Front Line Demonstration on oilseeds, pulses and other crops were conducted successfully. This K.V.K. will go a long way for extension activities in the district.

SITUATION

Krishi Vigyan Kendra, Katihar is situated in the south-eastern portion of North Bihar plain between North Latitude Between 25 °32' and 26 °31' East Longitude Between 87° 35' and 88° 35' and about 3 KM from the Katihar Railway Station which falls with in Agro-climatic Zone-II. The climate is sub-tropical humid having mean maximum and minimum temperature between 46°C and 4.10°C respectively. The average annual rainfall in 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. Up lands shows micronutrient differences such as <u>zink</u>, <u>sulphur</u>, Boron etc. The cropping system varies depending on rainfall, land situation and water accumulation in the locality. There are three distinct farming situations having specific characteristic which determine crop sequence/cropping pattern which are : <u>Sandy upland</u> : Characteristics by nitrogen deficiency and light texture. This situation needs to exploited and suitable agricultural technologies should be tested. <u>Medium lowland</u> : Water accumulation upto 0.5 meter water coupled with acidic and salinity, alkalinity patches and low availability of phosphate and other nutrient should be identified and steps to eliminate the problem should be chalked out. Diara land of Ganga, Kosi and Mahananda. Deep Water areas (Chour & tall) and diara areas of Kosi, Mahananda and Ganga should be identified and measures for suitable cropping pattern should be adopted. The low lying areas of this district has already been replaced by Boro Rice. Suitable varieties and fruitful technologies should be tested. Cultivation of Makhana and Waternuts should be popularized and advanced technologies evolved should be adopted and farmers should be made well acquainted by training and demonstrations.

PROBLEM IDENTIFIED

Regional Research Station, Agwanpur, Saharsa organizes Zonal Research and Extension Advisory Committee meeting twice in a year in which Scientists working in Kosi Zone, Extension Officers and Officers of Agricultural Department and progressive farmer's of the zone participate. The problems raised by the farmers and Extension Officers are scrutinized and selected as permandate. New problems identified are tackled by the scientists posted in the zone. Such meetings should also be organized at KVK Katihar and problems raised by farmers should be solved by the scientists of different discipline.

Apart from the above, problems are being identified at district level Kharif and Rabi Workshops organized by the District Agricultural Officer, other department dealing with farmers problems should be identified and regular and close contact is being maintained.

THRUST AREA

- i. Soil test based nutrition management in crop plants of the district
- ii. Promotion of Banana, Makhana based farming system and jute cultivation
- iii. Promotion and adoption of Integrated farming system for the district
- iv. Development of Suitable cropping system for diara ,tal and alkaline land of the district
- v. Implementation of women programmes in relation to food, nutrition and drudgery
- vi. Technology dissemination through production and supply of plant and seed materials

Krishi Vigyan Kendra, Katihar Abstract of Training Programme: Action Plan (2011-12)

	Discipline	Duration	No. of	No. of training		Participants	
	-	(days)	courses	days	Male	Female	Total
A.	Practicing farmers						
	Horticulture	33	56	4210	241	59	300
					368	47	415
	Plant Protection	24	37	2037			
	Extension Education	42	66	5550	264	111	375
	Home Science	26	53	4325		200	200
	Total	125	212	16122	873	417	1290
Β.	Rural Youth						
	Horticulture	17	37	3925	85	15	100
	Plant Protection						
		13	8	26	152	8	160
	Extension education	18	40	5150	80	20	100
	Home Science	26	44	4300		200	200
	Total	74	129	13401	317	243	560
C.	Extension Functionaries						
	Horticulture	8	24	1920	120	40	160
	Plant Protection	22	64	64	188	50	236
	Extension Education	12	34	4400	120	40	160
		26	26	4740		100	100
	Home Science						
	Total	68	148	11124	428	230	656
	Grand Total (A+B+C) :	267	489	40647	1618	890	2506

Discipline	Qrt No. & Month	Thematic area	Course Title	Dura-tion (days)	Venue off/on	Part	icipants tr (Nos)	ainees
					campus	M	F	Total
For Practicin	g Farmers &	Farm Women	•					
Horticulture	Apr.' to Jun'11	Nursery raising	Nursery raising of solaneceous vegetable crops	3	On	20	5	25
		Grading and standardization	Grading and standardization of soleneceous crops	3	On	20	5	25
		Training and Pruning	Training, pruning and nutritional requirement of Litchi and Mango	2	Off	21	4	25
		Plant propagation techniques	Air Layering in Guava and Litchi					
	July to Sept.'11	Protective cultivation	Protective cultivation of cole crops	2	Off	20	5	25
		Production of low volume high value crops	Production technique of tomato	3	On	20	5	25
				3	On	20	5	25
	III Oct Dec 11			2	Off	20	5	25
				2	Off	20	5	25
Discipline	Qrt No. & Month	Course Title	Course Objectives	Dura-tion (days)	Venue off/on campus	Partici (Nos)	pants traiı	nees

				M	F	Total
		3	On	20	5	25
		5	On	20	5	25
		3	On	20	5	25
IV Jan		2	off	20	5	25
,March 12		-		20		20

Plant Protection	April to June 11	Insect pest management in cucurbetacious crops	To acquaint farmers with management of insect of cucurbits	3	On		20	5	25
		Insect pest management in Boro rice	To increase the skill of farmers about pest management in boro rice	2	Off		20	5	25
		Storage management of rabi grains	To acquaint the farmers with spoilage of grain in storage and management	2	On		20	5	25
		Insect and disease management in Bhindi and Brinjal	To increase the skill of farmers about pest and disease management of bhindi and brinjal	3	On		20	5	25
	July to	Insect and disease	To enrich the knowledge of	3	Off		20	5	25

	Sept 11	management in kharif paddy	farmers about pest management of kharif paddy]
		Insect and disease management in Brinjal	To improve the knowledge of farmers about pest management in brinjal	2	On		20	5	25	
		Management of paddy pests infesting the crop in late stage	To improve the knowledge of farmers about pests management of rice in late stage of the crops	3	Off		20	5	25	
	Oct. t Dec. 1	o Pest Management	Plant health Management	1	ON/ OFF	:	38	2	40	
		Pest Management in vegetable	Plant health Management	1	ON/ OFF	:	38	2	40	
		Pest Management in vegetable	Plant health Management	1	ON/ OFF		38	2	40	
	Jan te march,	12 in Wheat	Plant health Management	1	ON/ OFF	:	38	2	40	
		Pest Management in Mustard	Plant health Management	1	ON/ OFF		38	2	40	
		Pest Management in Pulses	Plant health Management	1	ON/ OFF		38	2	40	
Discipline	Qrt No. & Month	Course Title	Course Objectives	Dura- tion	Venue off/on		Part Nos	-	ints train	es
				(days)	campus	I	Λ		F	Tot al
Extension Education	April - June, 11	Formation and management of SHGs	Gender Empowerment	3	OFF		16		9	25
		Income generation through back yard poultry	Upliftment of economic status of landless/small farmers	3	ON		16		9	25
		Entrepreneurship Development among Women's	Gender Empowerment	3	OFF		16		9	25
		System of Rice Intensification	Enhance the productivity of paddy	4	ON		16		9	25

		Formation and	To impart knowledge on the						
		management of SHGs	self help groups and self sufficiency of women's, landless farmers	2	OFF		16	9	25
		Utilization of ICT by the farmers	Promotion of Mobile SMS for agricultural advisory services	2	OFF		16	9	2
	July - Sept., 11	Bee- keeping	Income generation ways of farmers for livelihood security	2	Off		16	9	2
		Integrated Pest management	To impart knowledge on IPM	3	Off		16	9	2
		Integrated Nutrient Management	To impart knowledge on INM						2
				3	-		16	9	
Discipline	Qrt No. & Month	Course Title	Course Objectives	Dura- tion	Venue off/on	F	Partic	ipants tr (Nos)	ainees
				(days)	campus		Μ	F	Tota
		Integrated farming System	To Impart Income generation among small and marginal farmers.	4	Off		20	5	25
	Oct Dec,11	Entrepreneurial development of farmers	To Impart Income generation among small and marginal farmers for Sustainable Livelihood security.	2	Off		20	5	25
	1	SWI method of	To impart knowledge on						25

			importance to increase productivity in wheat crop					
		Productivity enhancement through Bio - fertiliser	To impart knowledge on the use of Bio – fertilisers for improving productivity.	2	Off	20	5	25
	Jan March, 12	Integrated farming system	To Impart Income generation among small and marginal farmers	2	Off	20	5	25
		Formation and management of SHGs	To impart knowledge on the self help groups and self sufficiency of women's, landless farmers	5	Off	20	5	25
Home Science	April – June, 11	Preparation of Potato chips, Badi & papad	To develop knowledge and skill of trainees regarding	4	ON		25	25
			Preparation of Potato chips					
			Preparation of Badi					
		Use of Tomato	To develop knowledge and skill on better utilization of perishable Tomato	3	ON		25	25
			Preparation of Tomato sauce					
			Preparation of Tomato Pickle					
		Preparation of Pickle	To develop knowledge and skill of trainees regarding different types of seasonal pickle making	3	ON/ OFF	_	25	25
	July - Sept, 11	Preparation of Jam/Jellies of mango fruit	To develop knowledge and skill of trainees regarding	3	ON/ OFF	-	25	25
		Preparation of	To develop knowledge and	3	ON	-	25	25

		Jam/Jellies of Papita & Guava	skill of trainees regarding	9							
			Preparation of Jellies Guava	of							
			Preparation of Jam Papita	of							
	Oct Dec., 11	Care of children and preparation of some nutritional recepies like weaning food	To develop knowledge a understanding of fa women about preparat of weaning food & care children	arm tion 3	3	ON			_	25	25
		Making of macreme work & flower making	To develop knowledge farm women regard macreme work & flow making	ling ∠ wer	ŀ	ON			_	25	25
	Jan March, 12	Proper utilization of Aonla	To develop the knowled and skill of preparation Amla murabba & pickles	of 3	3	ON			_	25	25
Discipline	Qrt No. & Month	Course Title	Course Objectives	Dura- tion			Venue off/on	P		ants trai (Nos)	nees
				(days)			campus	Μ		F	Total
			For Rural `	Youth							
Plant Breeding	April to June11	paddy	To impart knowledge and skill for production technologies of seed for income generation	5			On	20		5	25
	July to Sept 11	seed production of	To improve knowledge and skill regarding seed production	3			On	20		5	25
	Oct to Dec 11		To develop know how regarding seed production	5			On	25		-	25

		of pulse crop	of pulse crops						
	Jan to March 12	Scientific method for seed production oilseed crop	To improve skill and knowledge for seed production technology of oilseeds	4		On	20	5	25
Extension Education	April to June11	Farm planning and budgeting	To improve skill and knowledge upon farm planning	2		On	20	5	25
	July to Sept 11	Establishment and Management of Farmer clubs	To improve status of farming community through farmer's club	5		On	20	5	25
	Oct to Dec 11	Awareness programmes on different employment generative activities	To improve opportunities among rural youth	7		On	20	5	25
	Jan to March 12	Establishment and Management of Farmer clubs	To improve status of farming community through farmer's club	4		On	20	5	25
Plant Protectio n	April to June 11	Sericulture	To generate entrepreneurship	3		ON	38	2	40
	July to Sept. 11	Types of insecticide and precaution taken during teir uses	To assure safe and appropriate application of insecticides	3		ON	38	2	40
	Oct. to Dec. 11	Types of sprayer and dusters and their uses	To assure careful handling of these instruments	4		ON	38	2	4
	Jan .to March,12	Sericulture	To generate entrepreneurship	3		ON	38	2	40
Home Science	April - June, 2011	Tie and Dye	To develop knowledge & skill for subsidiary family income from Tie & Dye	4		On	_	25	25

	Painting (Mithila Painting on cloth)	To develop knowledge & skill for subsidiary family income from painting	4	On	_	25	25
	Preparation of different types of pickles	To increase knowledge about better nutrition and use of vegetables at the time of glut	3	on	Ι	25	25
July - Sept., 11	Preparation of Jam & Jellies	To increase knowledge and skill about better use of fruits & vegetable at the time of glut	3	On	Ι	25	25
	Lack of Nutrition and disease caused by them	To increase knowledge about better nutrition and use of vegetable at the time of glut	3	On	_	25	25
Oct Dec., 11	Cutting & Stitching of ladies garments	To increase the knowledge & skill and for subsidiary income	3	On	_	25	25
	Importance of Kitchen garden & its Management	To increase knowledge & skill for subsidiary income	3	On	_	25	25
Jan March,12	Making of Aonla Murabba & Pickle	To make more value added products for higher net return	3	On	_	25	25

Extension Functionaries

		Action	Plan on Training Programm	es (April 2	011-March 2012)					
Discipline Qrt No. & Course Title Course Objectives Dura- Venue Partic										
	Month			tion		off/on		(Nos)		
				(days)		campus	Μ	F	Total	
Plant	April to	Recent advances in	To develop knowledge	2		On	30	10	40	
breeding	June 11	scientific production	about scientific paddy							
_		of paddy	production							

	July to Sept 11	Recent technology for land preparation seedling raising water management of paddy crop	To develop knowledge for paddy cultivation	2		On	30	10	40
	Oct to Dec 11	Recent advances in scientific production of rabi crop	To enrich knowledge for rabi crop production	2		On	30	10	40
	Jan to March 12	Recent technology for scientific harvesting of rabi crops	To enrich knowledge for rabi crop production	2		On	30	10	40
Extension Education	April to June 11	Menance of Parthenium	Awareness for loss from parthenium	2		On	30	10	40
	July to Sept 11	Extension approaches for productivity enhancement	To enhance the productivity	3		On	30	10	40
	Oct to Dec 11	Extension Approaches for productivity enhancement	To enhance the productivity	3		On	30	10	40
	Jan to March 12	Self Help Group and its importance	To development of weaker section from SHG	4		On	30	10	40
Home Science	April to June 11	Lack of nutrition and disease caused by malnutrition	To increases knowledge about better nutrition and use of vegetable at the season	7		ON	-	25	25
	July to Sept 11	Women and child care and prepration of weing food of children	To develop knowledge and understanding of farm women about hygiene	6		On	-	25	25
	Oct to Dec 11	Storage of grain	To develop knowledge and skill of trainees regarding storage of grain	7		Off	-	25	25
	Jan to	Lack of nutrition and	To increases knowledge	6		Off	-	25	25

	March 12	nutrition caused by malnutrition	about better nutrition and use of vegetable at the season						
Plant Protection	April to June 11	Pest Management in jaid Crops	plant health Management	15		ON/ OFF	56	23	78
	July to Sept. 11	Pest Management t in Kharif Crops	plant health Management	2		ON/ OFF	56	23	78
	Oct. to Dec. 11	Pest management Vegetables	plant health Management	2		ON	38	2	40
	Jan. to March 12	Pest management in Rabi Crops	plant health Management	2		ON	38	2	40

Krishi Vigyan Kendra, Katihar

Action Plan of Front Line Demonstration on Oilseeds and Pulses crops

se		Kharif	systems Rabi	~	situation	(ha)	time		Da
se		Kharif	Rahi	· · ·			viiii e		Rs.
se			IXADI	Summer					
gram	Kharif,	Vegetables	Lentil	Fallow	Rainfed	5.0	June-July	Seed + Plant protection	10000.00
13	2011							input + R. culture	
til	Rabi,	Paddy	Linseed	Vegetable	Rainfed	5.0	October	Seed + R. culture	10000.00
S-218	2011-12								
en gram	Summer,	Maize	Mustard	Boro	Rainfed	5.0	March	Seed + Plant protection	10000.00
L 668	2012			paddy				input + R. culture	
eeds				-					
stard	Rabi	Maize	Wheat	Green	Irrigated	5.0	November	Seed + Plant protection	10000.0
S ei L e	-218 n gram 668	-218 2011-12 n gram Summer, 668 2012 eds	-218 2011-12 n gram Summer, 2012 Maize 668 2012 Maize	-218 2011-12 n gram Summer, Maize Mustard 668 2012 Image: Mustard Mustard eds Image: Mustard Image: Mustard Image: Mustard Image: Mustard	-2182011-12Image: Constraint of the second se	-2182011-12Boron gramSummer,MaizeMustardBoro6682012paddypaddy	-2182011-12BoroRainfed5.0n gram 6682012MustardBoro paddyRainfed5.0eds	-2182011-12ConstrainedSummer, MaizeMustardBoro paddyRainfed5.0March6682012ConstrainedConstrainedConstrainedConstrainedConstrainedConstrainededsConstrainedConstrainedConstrainedConstrainedConstrainedConstrained	1Rabi, 2011-12PaddyLinseedVegetableRainfed5.0OctoberSeed + R. culture-2182011-122011-12MustardBoro paddyRainfed5.0MarchSeed + Plant protection input + R. culture66820122012paddyVegetableSeed + Plant protection input + R. cultureeds

Rajendra Sufalam		gram		input		
					Total :	40000.00

Front Line Demonstration on other than Oilseeds and Pulses

Crop Production

Sl. No.	crops	systems		Farming situation	Area (ha)	Sowing time	Items components	Cost inputs in Rs.	
		Kharif	Rabi	Summer					
Α.	Cereals								
1.	Paddy	Boro	Paddy	Mustard	Rainfed	5.0	June	Seed + Plant protection	10000.00
	Swarna sab-1	paddy						measures	
2.	Boro paddy	Boro	Fallow	Wheat	Irrigated	5.0	Nov'	Seed + Plant protection	10000.00
	Gautam	paddy					seedling	measures	
							raising		
3.	Maize	Paddy	Maize	Fallow	Irrigated	5.0	Oct	Seed + Plant protection	10000.00
	Shaktiman-4							measures	

4.	Cowpea	Fallow	Radish	Cauliflower	Rainfed	1.0	JanFeb.	Seed + Plant protection	5000.00
	Kashi Kanchan							measures	
5.	Jute	Paddy	Wheat	Fallow	Rainfed	5.0	April,11	Seed + Plant protection	10000.00
	S-19							measures	
								Total	45000.00

ON FARM TRIALS (2011-12)

<u>CROPS</u>

Object of Investigation:

1. To test the effect of Bio- fertilizers on the performance of wheat crop.

Problem Diagnosed

- High dose of fertilizers
- Lower productivity of crops

4

Treatment :

T_1	-	farmers practice (no use of biofertiliser)
T_2	-	Seed treatment with Azotobacter and PSB
T_3	-	Soil treatment wih Azotobacter and PSB
T_4	-	seed and soil treatment with Azotobacter and PSB

Design:RBDPlot size:25 m x 20 m per treatmentReplications:6 (farmers)Season:Rabi 2011-12Thematic area:Enhancement in yieldPerformane indicator: Appropriate fertilizer use
Gain in yieldFarming situation: Medium land Irrigated

2. To Study the comparative performance of different Jute varieties

Problem Diagnosed

- Poor yield performance of Jute
- Use of very old variety

Technology selected for assessment: Variety

Treatment :

T_1	-	JRO-524 (farmers practice)	T_2	-	JRO-6	6
T_3	-	S-19	T_4	-	JRO-1	28
Design	:	RBD	Plot s	ize	:	25 m x 20 m
Replications	:	7 (farmers)	Seaso	n	:	kharif 2011
Source of te	chnology	: CRIJAF, Barakpur				
Thematic are	ea:Enhan	cement in yield				
Performane	indicator	: Plant length				
		Plant gudth				
		Fibre yield				
		Fibre quality				

3. To test the performance of late sown mustard variety in Katihar district

Problem Diagnosed: Use of long duration varieties resulting in poor yield and aphid infestation

- Use of long duration varieties resulting in poor yield
- Aphid infestation

Technology selected for assessment: Variety

Treatment : 4

 T_1 Rajendra Anukool - T_2 Rajecndra Sufalam _ Rajendra Rai Pichheti T_3 - T_4 Local -RBD Design : Plot size 25 m x 30 m : Replications : 6 (farmers) Source of technology: RAU, Pusa Thematic area: Enhancement in yield Performane indicator: Plant height Number of primary branches Number of pod/plant Number of seed/pod Yield

5. To test the cost and yield effectiveness of wheat under different sowing methods **Problem Diagnosed:**

- > High seed rate used for broadcasting resulting in high input cost
- ➢ Irregular germination

Treatment : 4

- Broadcasting method T_1 -
- Seed cum ferti drill T_2 _
- T_3 Zero till drill -
- Line sowing behind desi plough T_4 _
- RBD Design : Plot size •
- 25 m x 30 m 6 (farmers)
- Replications :
- Season Rabi-11-12 :

Extension Activities

Sl.	Activities Sub-activities	Annual			Beneficia	aries No.			No. of Participants		
No.			S	С	S	T	Otl	ners	-		
		-	Μ	F	M	F	M	F	Μ	F	Total
1.	Field Days	10	50	15	40	20	380	40	270	75	545
2.	Kisan Mela	1	70	50	100	50	150	100	320	200	520
3.	Kisan Ghosthi	4	100	50	50	10	200	15	350	75	425
4.	Exhibition	2	100	50	100	25	200	25	400	100	500
3.	Horticulture show	1	125	50	125	50	250	100	500	200	700
4.	Organisation of special events like world food day, Women in Agriculture day, Parthenium Awareness Week	3	100	30	50	20	100	50	250	100	350
5.	(a) Scientist, visit to farmer's field	60	5	2	3	2	30	8	38	12	60
	(b) Farmer's visit to KVK farm	300	40	10	25	10	185	30	250	50	300
	(c) Farmer's Meeting	3	30	10	20	5	100	30	150	45	195

	(e) Advisory/enquiry	20	30	20	20	10	80	30	130	60	190
	(f) Radio Talk	10									
	(g) Animal Health Camp	2	20	10	15	5	50	20	85	35	120
	(h) TV/Talk	40									
6.	Popular Articles	5									
	Ex Trainee Meet	2	50	10	20	10	230	50	180	70	350
7.	Research Paper	2									
7.	Extension literature	5									

Seed Production Programme

S.No.	Season	Сгор	Variety	Area
1.	Kharif,2011	Arhar	M13	2 hec
2.	Kharif,2011	Paddy	R.Bhagwati	2 hec
3.	Kharif,2011	Paddy	Prabhat	2 hec
4.	Rabi,2011-	Wheat	HD-2733	3 hec
	12			

Special programme to be initiated by the KVK, Katihar

Proposed field studies

Title of the study : Evaluation of Training Programmes of the KVK

<u>Objectives</u>

(i) To study the effectiveness of training programme on knowledge gain of farmers.

2

:

- (ii) To study the socio-economic characteristics of the trainees and their relationship with the knowledge level.
- (iii) To study the opinion of farmers about the training programmes

<u>Methodology</u>

Some of the training programmes planned and conducted by SMSs of KVK on the following themes during the year 2010-11 will be chosen for the study purpose.

Increase in Productivity of agriculture

- Plant Protection Training programmes
- Women training programmes

All the participants of selected training programmes will be chosen as sample respondents. Information will be collected from trainee farmers by administering suitable schedules developed for this purpose. Knowledge tests will be developed and administered to trainees before and after the training as a part of evaluation of training purpose.

Study -2

Title of the study : To study the impact of FLDs on paddy conducted by the KVK

Objective

- (i) To study the extent of knowledge level of the farmers on paddy technologies
- (ii) To assess the adoption level of farmers

:

- (iii) To elicit suggestions and study the constrains in adoption of technologies
- Methodology: For the study suitable sample i.e. 20 farmers who participated in FLD programme conducted by the KVK in adopted villages during past 3 years will be selected randomly. Similarly equal number of non-FLD farmers will also selected for the study. Thus the total sample will be 20+ 20

respondents. Information will be collected from the farmers by using interview schedules developed for this purpose. Improved practices viz., varieties, INM, IPM etc. related to Paddy, crops which were advocated to farmers during FLD programme will be included for study. Knowledge tests will be developed and administered to the respondents as a part of study.

> P.C KVK, Katihar