

Dr. Rajendra Prasad Central Agricultural University, Pusa

4th Extension Education Council Report

(April, 2019 to March, 2020)

A. Profile of KVK

KVK, Name	-	KVK, Gopalganj
Latitude	-	26 ⁰ 34'38"N
Longitude	-	84 ⁰ 22'34"E
Farm Area (ha)	-	20 ha
District	-	Gopalganj



KVK Location

B. Staff Strength

Sl. No.	Post	Group	Grade Pay	Sanctioned	Filled	Vacant
1.	Head	A	8000	1	1	0
2.	SMS-6	A	6000/5400	6	5	1
3.	Farm Manager	B	4200	1	1	0
4.	Programme Asst. (Computer)	B	4200	1	0	1
5.	Programme Asst. (Lab Tech.)	B	4200	1	0	1
6.	Assistant	B	4200	1	1	0
7.	Stenographer	C	2400	1	1	0
8.	Supporting Staff -1&2	C	1800	2	2	0
9.	Jeep Driver	C	2000	1	0	1
10.	Tractor Driver	C	2000	1	0	1

C. Climate

Month	Temperature (⁰ C)		Average Rainfall (mm)	Relative Humidity (%)	
	Min Temp	Max Temp		Max	Min
May 2019	26.53	41.02	3.4	56.53	33.79
June 2019	27.61	38.16	113.3	70.76	54.74
July 2019	26.14	32.99	593.7	82.48	73.64
August 2019	26.10	32.45	106.9	83.45	76.52
September 2019	25.32	32.23	437.8	81.85	75.39
October 2019	21.52	31.84	6.6	74.82	67.91
November 2019	14.57	28.73	0.0	70.76	60.66

December 2019	9.8	24.62	12.3	75.30	59.69
January 2020	6.23	23.20	7.7	77.50	57.91
February 2020	11.39	26.32	21.8	67.26	46.21
March 2020	16.34	32.50	43.11	51.41	30.82

D.

(i) Soil Parameters of KVK Farm:

SI. No.	Plot No.	Soil Type	PH	EC (dS/m)	O.C. (%g ⁻¹ kg ⁻¹)	Available Nutrients (kg/ha)		
						N	P	K
1.	P1	Sandy Loam	8.05	0.27	0.70	217	18.28	176
2	P2	Sandy Loam	7.99	0.58	0.58	255	22.85	169
3	P3	Sandy Loam	8.07	0.65	0.90	252	22.85	151
4	P4	Sandy Loam	8.06	0.77	0.98	266	22.85	226
5	P5	Sandy Loam	8.16	0.76	0.95	260	36.56	238
6	P6	Sandy Loam	8.18	0.78	0.81	236	41.13	130
7	P7	Sandy Loam	8.40	0.62	0.53	188	31.99	164
8	P8	Sandy Loam	7.95	1.91	0.67	212	22.85	192
9	C1	Sandy Loam	8.34	0.26	0.73	222	27.42	144
10	C2	Sandy Loam	8.26	1.64	0.70	217	86.83	265
11	C3	Sandy Loam	8.22	1.16	1.01	271	100.54	255
12	C4	Sandy Loam	8.29	0.94	0.62	203	123.39	280
13	C5	Sandy Loam	8.38	1.04	0.81	236	73.12	277
14	C6	Sandy Loam	8.35	0.78	0.73	222	59.41	301
15	C7	Sandy Loam	8.54	0.50	0.87	247	77.69	167
16	M1	Sandy Loam	8.48	0.46	0.78	231	86.83	173
17	M2	Sandy Loam	8.53	0.39	0.84	241	22.85	222
18	M3	Sandy Loam	8.13	0.71	0.73	222	68.55	241
19	M4	Sandy Loam	8.35	0.69	0.78	231	91.40	224
20	M5	Sandy Loam	8.42	0.58	0.81	236	54.84	208
21	M6	Sandy Loam	8.52	0.45	0.87	247	59.41	134
22	M7	Sandy Loam	8.46	0.47	0.81	236	82.26	247
23	Nursery Plot	Sandy Loam	8.48	0.43	0.76	227	22.85	153

(ii) Secondary Nutrient & Micronutrient Status:

SI. No.	Plot No.	Secondary Nutrient	Micronutrient				
		S	Fe	Mn	Zn	Cu	B
1	P1	15.63	15.64	10.044	0.74	1.75	1.88
2	P2	9.38	14.71	7.716	0.49	2.16	2.19
3	P3	12.50	11.89	7.86	0.27	1.78	2.34
4	P4	40.63	14.26	4.764	0.48	1.98	2.19
5	P5	50.0	17.03	8.05	0.52	2.26	2.81
6	P6	12.50	16.18	6.074	0.58	2.42	1.56

7	P7	9.38	18.05	3.326	0.21	1.62	1.72
8	P8	9.38	17.54	4.806	0.31	2.05	1.25
9	C1	18.75	15.26	4.494	0.32	2.05	0.31
10	C2	9.38	11.96	9.704	0.86	1.33	2.97
11	C3	12.05	9.33	10.124	0.86	2.30	1.41
12	C4	6.25	9.60	9.832	0.53	2.37	4.06
13	C5	6.25	9.39	6.702	0.59	2.176	2.50
14	C6	9.38	12.24	7.222	0.42	1.077	4.06
15	C7	25.0	17.40	5.318	0.39	2.612	1.56
16	M1	21.88	19.14	5.436	0.74	2.216	2.50
17	M2	28.13	22.27	4.68	0.44	1.176	3.44
18	M3	65.50	20.60	6.724	0.60	1.79	0.31
19	M4	6.25	11.54	7.144	1.47	1.602	2.50
20	M5	46.88	15.26	9.758	0.64	1.298	0.94
21	M6	37.50	15.26	3.542	0.36	1.912	2.19
22	M7	46.88	17.57	4.392	0.51	2.002	1.25
23	Nursery Plot	28.13	12.59	4.454	0.49	1.057	2.34

E. Soil Samples Analyzed:

Sl. No.	Village Name	GPS Location		Soil Samples		Soil Health Card Distributed
		Latitude	Longitude	Collected	Analyzed	
1.	Roopchap	26 ⁰ 30'32"	84 ⁰ 23'01"	2	2	2
2.	Bisunpura	26 ⁰ 30'18"	84 ⁰ 26'18"	6	6	6
3.	Baraipatti	26 ⁰ 56'65"	84 ⁰ 34'44"	3	3	3
4.	Khem Matihiniya	26 ⁰ 28'42"	84 ⁰ 20'47"	1	1	1
5.	Sipaya	26 ⁰ 33'43"	84 ⁰ 22'42"	1	1	1
6.	Amwa Vijaypur	26 ⁰ 39'33"	84 ⁰ 55'21"	2	2	2
7.	Tiwari Matihiniya	26 ⁰ 33'53"	84 ⁰ 22'61"	2	2	2
8.	Khairatwa	26 ⁰ 52'80"	84 ⁰ 41'30"	2	2	2
9.	Sipaya Khas	26 ⁰ 55'38"	84 ⁰ 42'35"	4	4	4
10.	Sirsiya	26 ⁰ 32'44"	84 ⁰ 20'44"	1	1	1
11.	Bhitbherwa	26 ⁰ 40'35"	84 ⁰ 54'19"	2	2	2
12.	Hasanpur	26 ⁰ 37'33"	84 ⁰ 26'20"	1	1	1
13.	Rampur Tengrahi	26 ⁰ 34'15"	84 ⁰ 24'16"	1	1	1
14.	Salehpur	26 ⁰ 61'90"	84 ⁰ 38'40"	1	1	1
15.	Kalamatihiniya	26 ⁰ 33'53"	84 ⁰ 19'58"	3	3	3
16.	Kali Asthan Road	26 ⁰ 40'33"	84 ⁰ 53'18"	1	1	1
17.	Semra	26 ⁰ 34'36"	84 ⁰ 23'40"	1	1	1
18.	Narayanpur	26 ⁰ 39'33"	84 ⁰ 55'21"	1	1	1
19.	Khutwaniya	26 ⁰ 34'50"	84 ⁰ 22'58"	1	1	1
20.	Shobhanchak	26 ⁰ 34'27"	84 ⁰ 22'42"	1	1	1
21.	Dubey Tola	26 ⁰ 34'13"	84 ⁰ 24'17"	1	1	1
22.	Parsauni Khas	26 ⁰ 39'33"	84 ⁰ 55'21"	1	1	1
23.	Vijaypur	26 ⁰ 34'45"	84 ⁰ 23'52"	1	1	1
				40	40	40

F. Fund Utilization (Rs. In lakhs):

Month	Sanction	Salary	General	Capital	Total	Revolving Fund	
						Expenditure	Income
April '19			0.10800	0	0.10800	0.46862	5.44554
May '19			0.07181	0	0.07181	0.96286	0.0
June '19			0.79762	0	0.79762	1.23139	0.49024
July '19			1.06166	0	1.06166	1.64842	0.17166
August '19			0.73539	0	0.73539	0.44854	0.15573
September '19			0.75115	0	0.75115	0.87856	0.74426
October '19			0.26626	0	0.26626	0.63074	0.08451
November '19			1.15335	0	1.15335	1.64094	0.48936
December '19			0.67677	0	0.67677	0.95355	0.58851
January '20			0.61223	0	0.61223	2.37807	4.69644
February '20			0.50462	0	0.50462	0.96907	0.03745
March '20			1.05247	3.46745	4.51992	1.20865	0.31026
Total			7.79133	3.46745	11.25878	13.41941	13.21396
Sanctioned Amount							(Present Status)

G. Achievements of Training Programmes:

(i) Practicing Farmers/Farm Women.

Sl. No.	Discipline	Thematic Area	Target	No. of trainings Conducted	No. of Beneficiaries		Total
					Male	Female	
1.	Crop production	Cultivation of crop	9	8	192	3	195
		Nursery Management	1	1	21	0	21
		Integrated crop management	3	2	56	0	56
		Weed management	2	2	41	9	50
		RCT	2	2	50	5	55
		Cropping System	2	1	16	9	25
		Production of organic input	2	0	0	0	0
		Water Management	3	0	0	0	0
		Total	24	16	376	26	402
2.	Hort.	Management of young Plants/orchards	1	1	26	0	26
		Integrated Nutrient management	2	1	23	2	25
		Cultivation of fruit	2	2	50	0	50
		Cultivation of vegetable	2	2	43	7	50
		Yield increment	1	1	22	3	25
		Nursery Raising	1	2	54	1	55

		Exotic vegetables like broccoli	1	1	25	0	25
		Protective cultivation	2	2	44	6	50
		Seed Production	0	1	25	0	25
		Layout and management of orchards	1	1	25	0	25
		Plant propagation techniques	1	1	25	0	25
		Microirrigation system of orchards	1	1	25	0	25
		Propagation techniques of ornamental plants	1	1	24	1	25
		Production and management Technology	3	1	25	0	25
		Skill development	1	0	0	0	0
		Off season vegetables	1	0	0	0	0
		Training and pruning	1	0	0	0	0
		Nursery Management	1	0	0	0	0
		Processing and value addition	1	0	0	0	0
		Total	24	18	436	20	456
3.	Plant Protection	IPM	17	13	306	31	337
		IDM	7	0	0	0	0
		Mushroom Cultivation	0	2	45	11	56
		Total	24	15	351	42	393
4.	Home Science	Enterprise development	2	1	0	28	28
		Value addition	3	3	4	77	81
		Income generation activities for empowerment of women	14	7	1	195	196
		Household food security by kitchen gardening and nutrition gardening	3	0	0	0	0
		Design and development of low/minimum cost diet	2	0	0	0	0
		Total	24	11	5	300	305
5.	Veterinary /Fisheries	Disease Management	6	1	30	0	30
		Dairy Management	1	0	0	0	0
		Feed Management	4	0	0	0	0
		Production of quality animal product	1	0	0	0	0
		Total	12	1	30	0	30
6.	Ag. Engg.	Farm mechanization	7	6	148	4	152
		Post Harvest technology	5	1	25	0	25
		Installation and maintenance of micro irrigation systems	3	3	79	1	80
		Repair and maintenance	6	2	46	4	50

		of farm machinery and implements					
		Drudgery reduction	3	1	2	23	25
Total			24	13	300	32	332
Grand Total			132	74	1498	420	1918

(ii) Rural Youth:

Sl. No.	Discipline	Thematic Area	Target	Duration	No. of Training Conducted	No. of Beneficiaries		Total
						Male	Female	
1.	Crop production (Agro/ Plant Breeding/ Soil Sci/ Extn.)	Seed production	2	5	1	29	0	29
		Integrated farming	2	5	0	0	0	0
		Nursery Management	1	3	0	0	0	0
		Production of organic inputs	1	3	0	0	0	0
2.	Horticulture	Vegetables seed production	1	5	1	25	0	25
		Planting material production	1	4	1	25	0	25
		Training and pruning of orchard	1	4	0	0	0	0
		Protected cultivation of vegetable crops	1	4	0	0	0	0
		Nursery management of vegetables	1	4	0	0	0	0
		Nursery management of horticultural crops	1	4	0	0	0	0
3.	Plant Protection	Mushroom Production	2	5	2	5	45	50
		Post Harvest Technology	1	2	0	0	0	0

		Bee Keeping	2	2	0	0	0	0
4.	Home Science	Enterprise development	4	4	2	2	49	51
		Value addition	2	4	0	0	0	0
5	Veterinary/ Fisheries	Cattle Production	1	4	0	0	0	0
6.	Agricultural Engineering	Repair and maintenance of farm machinery and implements	3	3	1	25	0	25
		Protected cultivation	1	4	1	14	18	32
		Small scale processing	1	3	0	0	0	0
		Irrigation systems	1	4	0	0	0	0
Total			30	76	9	125	112	237

(iii) Extension Functionaries:

SI. No.	Discipline	Thematic Area	Target	No. of Training Conducted	No. of Beneficiaries		Total
					Male	Female	
1.	Crop production	Productivity enhancement in field crops	2	1	25	0	25
		INM	2	0	0	0	0
2.	Horticulture	Rejuvenation of old orchard	1	1	23	2	25
		INM	1	1	13	12	25
		Protected cultivation technology	1	0	0	0	0
		Production and use of organic inputs	1	0	0	0	0
3.	Plant Protection	IPM	4	1	35	0	35
4.	Home Science	Women and child care	2	2	0	55	55
		Household food security	0	1	44	8	52
		Gender mainstreaming	1	0	0	0	0

		through SHGs					
		Low cost nutrient efficient diet designing	1	0	0	0	0
5.	Vet. /Fisheries	Disease Management	1	0	0	0	0
6.	Agricultural Engineering	Care and management of farm machinery and implements	4	1	25	0	25
		RCT	1	0	0	0	0
Total			22	8	165	77	242

(iv) Other Sponsored Training Programme:

Sl. No.	Sponsored By	Discipline	Thematic Area	No. of Training Conducted	No. of Beneficiaries		Total
					Male	Female	
1.	JDA	Animal Sc.	Fodder production	1	400	5	405
2.	BSSOC	Agronomy, Hort	Seed Production	2	155	45	200
3.	NABARD, FPO	Agronomy, Hort.	Seed Production	1	25	0	25
4	DAO, ATMA	Agronomy	Crop Production	2	1053	137	1190
5	DAO	Agronomy	Contingent crop	1	90	15	105
6	ATMA	Ag. Engg.	Farm mechanization	7	2415	535	2950
7.	ATMA	Horticulture	Fruit Production	2	575	175	750
8	ATMA	Plant Protection	IPM	2	308	192	500
9.	DAO	Combined	Water conservation	22	1695	415	2110
10	IFFCO	Agronomy, Hort	Nutrient Management	1	87	0	87
11	NABARD	Plant Prot	Mushroom	1	0	163	163
12	DAO	Soil Sc.	SHC	3	233	37	270
13	DAO	Horticulture	Microirrigation	2	268	57	325
Total				47	7304	1776	9085

(v) Vocational Training:

Sl. No.	Discipline	Thematic Area	Target	No. of Training Conducted	No. of Beneficiaries		Total
					Male	Female	
1.	Agronomy	Seed Prodn	2	1	29	0	29
2	Hort	Vegetable seed prodn	1	1	25	0	25
		Planting material prodn	1	1	25	0	25
		Nursery management	1	0	0	0	0
3.	Plant Protection	Mushroom	2	2	5	45	50
4	Ag. Engg	Protected cultivation	1	1	14	18	32
		Irrigation Systems	1	0	0	0	0
5	Home Sc	Enterprise dev	4	2	2	49	51
6.	Animal Sc	Cattle Prodn	1	0	0	0	0
Total			14	8	100	112	212

H.**i) Seed & Planting Material Produced:**

Sl. No.	Crop	Variety	Area (ha)	Type of Seed	Seed Production			
					Quantity Produced (q)	Sold to		
						University	Farmers	Non Seed
1	Wheat	HD 2733	6.0	FS	141.3	Yes		
2.	Gram	BG 372	1.0	FS	15.94	Yes		
3.	Pea	HFP4	0.4	FS	2.5	Yes		
4.	Green Gram	IPM-02-03	1.0	FS	3.68	Yes		
5.	Lentil	KLS 218	0.4	FS	2.0	Yes		
6.	Paddy	R. Sweta	3.0	FS	86.0	Yes		
7.	Paddy	R. Sweta	3.0	CS	78.0			
8.	Sugarcane	COP 112	0.5	FS	38.2		Yes	
9.	Rapeseed	R. Suflam	-	TL	2.0		CFLD	
Total			15.3		369.62			

ii) Planting Material Production

Sl. No.	Crop	Variety	Quantity Produced	Sold to	
				Govt.	Farmers
1.	Cauliflower	Kashi Gobhi 25	8375 nos.		Yes
2.	Chilli	Kashi Ratna	3760 nos		Yes
3.	Tomato	Kashi Aman	10,000 nos.		Yes

I. FLD:

Crop	Variety/ Tech demo.	Season Kharif/ Rabi	Area (ha)	No. of Farmers	Production q/ha			Local check (q/ha)	Increase yield %	BC ratio
					H	L	A			
Paddy	R. Sweta	Kharif	6.0	15	32.6	47.9	45.4	37.60	20	2.56
Berseem	Mescavi	Rabi	2.0	12	800	530	640	450	42	0.8
Oats	UPO 212	Rabi	2.0	12	740	460	540	450	20	2.2
Mushroom	Button	Rabi	-	7	21 kg	15 kg	18 kg	11.5 kg	56.5	4.2

J. CFLD:

Crop	Variety/ Tech demo.	Season Kharif / Rabi	Area (ha)	No. of Farmers	Production q/ha			Local check (q/ha)	Increase in yield %	BC ratio
					H	L	A			
Pulses										
Green Gram	IPM- 02-03	Summer	10	25	11.6	6.5	8.7	7.0	24.2	2.77
Pigeon Pea	NDA 1	Kharif	10	25	22.7	12.4	17.22	13.7	25.7	5.01
Lentil	HUL- 57	Rabi	20	50	15.9	8.6	12.8	9.20	39.1	3.88
Oilseed										
Rapeseed, mustard	R. Suflam	Rabi	20	50	18.7	9.6	14.6	11.6	25.8	4.75
Rapeseed, mustard (Addition)	R. Suflam/ RH- 0749	Rabi	130	325	18.9	8.7	14.4	11.6	24.1	4.69

K. On Farm Trial**OFT – 1****Discipline** : Agronomy**Title** : Selection of suitable intercrops in autumn planted sugarcane for higher income generation**Crop** : Sugarcane**No. of Trials** : 5**Area** : 1.0 ha

Treatment	Technology
F.P	Sugarcane(sole)
T ₁	Sugarcane+ Potato (1:2)
T ₂	Sugarcane +Rajmash (1:2)
T ₃	Sugarcane+ Lentil (1:2)
T ₄	Sugarcane + coriander (1:2)

Result: Productivity and income in sugarcane intercropping in autumn season.

Technology option	Yield component (Q/ha)			Cost of cultivation (Rs./ha)	Gross Income (Rs/ha)	Net income (Rs./ha)	BC ratio
	Sugarcane	Intercrop	Cane equivalent				
F.P. (Sugarcane as sole crop)	740	-	-	54000	214600	160600	3.97
T.O. 1 (Sugarcane+Potato 1:2)	810	120.00	1223.79	83700	354899	271199	4.20
T.O 2: (Sugarcane+Rajmas, 1:2)	710	10.70	876.00	67500	254040	186540	3.76
T.O. 3 (Sugarcane+ Lentil, 1:2)	735	7.90	871.20	64800	252648	187848	3.89
T.O.4: (sugarcane + Coriander , 1:2)	680	4.80	828.96	63100	245198	182098	3.88

Price of sugarcane is Rs. 290/q, Potato Rs. 1000/q, Rajma Rs. 4500/q, Lentil Rs.5000/q and coriander Rs. 9000/q.

Recommendation: Intercropping of sugarcane with potato provided maximum returns in terms of sugarcane equivalent (1223.79 q/ha) , net income (Rs 1223.79/ha) and BC ratio 4.2 which was the highest compared to sole sugarcane, sugarcane+Rajma, sugarcane+ lentil or sugarcane + coriander, hence it is recommended that the sugarcane be intercropped with potato to maximize returns in autumn sugarcane.

OFT-2

Discipline : Agronomy

Title : Effect of different kinds of planting methods on cane yield in spring planted sugarcane

Crop : Sugarcane

No. of Trials: 5

Area : 1.0 ha

Treatment	Technology
F.P	Cane setts
T ₁	Polybag settlings
T ₂	Nursery
T ₃	Chip bud settlings
Result: Awaited	

OFT – 3

Discipline : Entomology
Title : Effect of different insecticides on management of pod borer in Pigeonpea
Crop : Pigeon pea
No. of Trials: 5
Area : 1.0 ha

Treatment	Technology
F.P	Monocrotophos 36 EC @1000 ml/ha
T ₁	Thiodicarb 75 WP @500g/ha
T ₂	Novaluron 10 EC @ 800 ml/ha
T ₃	NPV @ 300 LE/ha +Pheromone trap 15 /ha

Result: Effect of different insecticides on Pod borer in pigeonpea

Treatments	Plant affected with pod borer (5 plants) in %		Yield (q/ha)	Cost of cultivation Rs./ha	Gross income (Rs./ha)	Net income (Rs./ha)	BC ratio
	Before spray	After spray					
F.P: Monocrotophos 36 EC @ 1000ml/ha	2.96 (9.81)	1.86 (7.71)	8.46	23000	42300	19300	1.83
T.O. 1: Thiodicarb 75 WP @500 g/ha	2.70 (9.46)	1.19 (6.02)	10.86	23700	54300	19740	2.29
T.O. 2: Novaluron 10 EC @ 800 ml/ha	2.74 (9.63)	1.27 (6.29)	10.33	23800	51650	17520	2.17
T.O. 3: NPV @ 300 LE /ha +pheromone trap 15 /ha	3.33 (8.72)	1.13 (6.55)	11.22	24100	56100	20780	2.32

- Figures in parentheses are arc sine transformed values.
- The price of pigeonpea is Rs.5000/q

Recommendation: Use of NPV @ 300 LE/ha alongwith pheromone trap 15/ha is the best compared to insecticides

OFT-4

Discipline : Entomology
Title : Management of litchi mite (*Aceria litchi keifer*)
Crop : Litchi
No. of Trials: 5
Area : 1.0 ha

Treatment	Technology
F.P	No use of pesticide
T ₁	Pruning of effected twigs +Neem cake 4 Kg + Castor cake 1 kg soil application + Fenpropathrin 10 EC @ 2ml/L of water twice at 10 days interval during flush emergence
T ₂	Pruning of effected twigs + Neem cake 4 kg +Castor cake 1 kg soil application + kelthane 18.5 EC @ 3ml/L water twice at 10 days interval during flush emergence.
Result: Awaited	

OFT – 5

Discipline : Animal Science
Title : Evaluation of methods to increase conception in repeat breeders.
Animal Species: Cattle
No. of Trials: 5 animals / treatment

Treatment	Technology
F.P	Repeat breeding cases. Sprouted wheat (0.5 to 1.0 kg) for a week.
T ₁	Deworming + Mineral mixture (50 g/day)
T ₂	Deworming + Mineral mixture (50 g/day) + Multivitamin liquid 10 ml orally/day
T ₃	Deworming + Mineral mixture (50 g/day) + Multivitamin liquid 10 ml orally/day+ Clomiphene Citrate 300 mg orally day along with copper sulphate tabs daily for 5 days.

Result:

F.P	20 % animals conceived
T ₁	60 % animals conceived
T ₂	60 % animals conceived
T ₃	80 % animals conceived

Recommendation: Among all the technical options T.O.3 viz. T.O. 3: Deworming+Mineral mixture+Multivitamin liquid+ Clomiphene Citrate (300 mg) along with Copper sulphate 1500 mg daily for 5 days the conception percentage was very high (80%).

OFT – 6

Discipline : Animal Science

Title : Evaluation of area specific mineral mixture

Animal Species: Cattle

No. of Trials: 10 animals / treatment

Treatment	Technology
F.P	Inadequate mineral supplementation
T ₁	Area Specific mineral mixture (ICAR-RCER, Patna)
T ₂	Commercial mineral mixture
Result	Awaited

OFT-7

Discipline : Agricultural Engineering

Title : **Assessment of improved weeding implements for weeding in gram**

Crop : Gram

No. of Trials: 8

Area : -

FP: Farmer Practice (khurpi)

T.O. 1: Three Tyne Grubber

T.O. 2: Three Tyne wheel hand hoe

Results: Assessment of improved weeding implements for weeding in gram

Treatment	Monitoring Indicators		
	Heart rate at work (Beats/min)	Weeding Efficiency (%)	Field capacity (ha/hr)
F.P.	112.8±0.71	93.6±0.23	0.002
T ₁	135.9±0.8	70.2±1.02	0.003
T ₂	121.6±1.35	74.6±1.08	0.007

ANOVA:

SOV	SS	df	MS	F	P Value	F Table
Between subjects	505.85	7	72.62	1.34	0.302	2.76
Between weeding tools	2134.29	2	1067.64	19.83	8.22E-05	3.74
Error	753.20	14	53.80			
Total	3393.34	23				

Interpretation: Significant($P \leq 0.05$) difference of different weeding tools on heart beat per minutes were observed whereas the effect of subjects on heart beat were non significant.

Recommendation: Weeding by Khurpi is by far the most labour intensive and this outweighs its other advantages. Therefore from overall consideration, a twin wheel hoe or three tyne are preferable to Khurpi

OFT-8

Discipline : Agricultural Engineering

Title : Assessment of sugarcane bud chipper/sugarcane single node bud cutter for drudgery reduction

Crop : Sugarcane

No. of Trials: 10

Treatment	Technology
F.P	Sugarcane sett cutting by axe
T ₁	Sugarcane bud chipper
T ₂	Sugarcane bud cutter
Result: Awaited	

OFT-9

Discipline : Home Science

Title : **Effect of enrichment of wheat flour on health status of farm women**

No. of Trials: 10

Treatment	Technology
F.P	Wheat flour
T ₁	Fortified wheat flour (65 % wheat +15 % gram + 10 % jowar + 5 % soyabean + 5 % bajra)
T ₂	Fortified wheat flour (65 % wheat + 15 % gram + 10 % Jowar + 10 % QPM)
Result: Awaited	

OFT-10

Discipline : Home Science

Title : **Nutritional management through dried cauliflower**

Crop : Cauliflower

No. of Trials: 10

Treatment	Technology
F.P	Non consumption of cauliflower in off season
T ₁	Open sun drying of cauliflower
T ₂	Low cost solar box drying of cauliflower
Result: Awaited	

OFT-11

Discipline : Horticulture

Title : **Assessment of INM for higher yield of banana**

Crop : Banana

No. of Trials: 8

Area : -

Treatment	Technology
F.P	100 % RDF (200:100:300 g/plant)
T ₁	100 % RDF + vermicompost 5 kg + PSB 20 g + Azospirillum 20 g/ plant
T ₂	100 % RDF +FYM 20 kg + PSB 20 g +Azospirillum 20 g/ plant
Result: Awaited	

OFT-12**Discipline** : Horticulture**Title** : Effect of micronutrients (Boron) and plant growth regulator (2,4-D) or cracking in litchi**Crop** : Litchi**No. of Trials:** 8**Area** : -

Treatment	Technology
F.P	No application
T ₁	Borax (0.4 %)
T ₂	2,4 -D (20 ppm)
Result: Awaited	

L. Vermi-culture and other products at KVK level:

Sl. No.	Particulars	No./Amount	Total income (Rs.)
1.	Vermicompost	60 q	Used in farm nursery

M. Sale of Publications:

Sl. No.	Particulars	Name of author/KVK	Total income (Rs.)
1.			

N. TV Talk/Radio Talk:

Sl. No.	Topic of the talk	Name of Scientist	TV/Radio talk station	Date of Recording
1.	Pashuon mein mahatwapurn bimariyan evam roktham	Dr. Ramakrishna Roy	TV talk Krishi Darshan	16 th August, 2019
2.	Safal bag mein barti janewali savdhaniya	Dr. Amit Visen	TV talk Krishi Darshan	16 th August, 2019
3.	Advanced seeding and planting equipment in Agriculture	Er. Naveen Kumar	TV talk Krishi Darshan	16 th September, 2019
4.	Muhpaka Khuhrpaka rog	Dr. Ramakrishna Roy	Varsha Radio	11 th September, 2019
5.	Farm Machine for different crops	Er. Naveen Kumar	Varsha Radio	11 th September, 2019
6.	Shamshamyik vishyon par charcha	Shri Sanjay Kumar Dr. Md. Sajid Hussain	Phone-in Live TV programme	7 th January, 2020

O. Other Special programme/ salient achievement/activities conducted at KVK:

Sl. No.	Particulars	Name of Scientists	Date	No. Of Participants
1.	Data collection for cropping system atlas of India	Sanjay Kumar, Dr. Amit Visen Er. Naveen Kumar	May 2019	200
2.	Benchmark survey of Doubling Farmer Income	Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Amit Visen	June, 2019	125
3.	Trainings under Jal Shakti Abhiyan	Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Dr. Amit Visen Er. Naveen Kumar Dr. Anita Gautam	August 2019	2110
3	Live telecast of launching of NADCP-FMD-Brucellosis	Dr. Ramakrishna Roy	11 th Sept, 2019	100
4	Large Scale Tree Plantation (1000 plants)	Dr. Ramakrishna Roy, Dr. Md. Sajid Hussain Dr. Amit Visen	17 th Sept, 2019	150
5	Kisan mela, Jal Shakti Abhiyan at Unchkagaon	Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Er. Naveen Kumar Dr. Anita Gautam	3 rd Sept, 2019	1034
6	Kisan mela Jal Shakti Abhiyan at Thawe	Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Dr. Amit Visen Er. Naveen Kumar Dr. Anita Gautam	2 nd Oct, 2019	1004
7	Farmer Awareness programme on fertilizer application	Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Dr. Amit Visen Er. Naveen Kumar Dr. Anita Gautam	22 nd Oct, 2019	140
8	Training cum Kisan Gosthi at Budhsi Sidhwaliya	Dr. Ramakrishna Roy Dr. Md. Sajid Hussain	31 st Oct, 2019	1000
9	Live telecast of Global potato conclave	Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Dr. Amit Visen Er. Naveen Kumar Dr. Anita Gautam	28 th Jan, 2020	75

10	International Womens' Day and Nutritional Awareness, Nutrition Garden	Dr. Anita Gautam Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Dr. Amit Visen Er. Naveen Kumar	8 th March, 2020	100
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P. List of visitors at KVK:

Date	Name & Designation	Purpose of visit
03.09.19	Shri DN Mandal, TO, Jal Shakti Abhiyan	Jal Shakti Abhiyan
03.09.19	Shri Vivek Ranjan Maitrey, IAS, Nodal officer Jal Shakti Abhiyan	Jal Shakti Abhiyan
03.09.19	Ramashish Singh, Prakhand Pramukh, Unchkagaon	Jal Sjhakti Abhiyan
03.09.19	Dr. Lalan Rai, Zila Prwakta, JDU, Gopalganj	Jal Shakti Abhiyan
03.09.19	Shri Ram Bachan Ram, Circle Officer, Unchkagaon	Jal Shakti Abhiyan
03.09.19	Shri Pawan Kumar Suman, BPM, Jeevika	Jal Shakti Abhiyan
03.09.19	Shri MA Wajidm, Asst. Director (Hort.)	Jal Shakti Abhiyan
07.09.19	Dr. Shilendra Kumar Sinha, DAHO	NADCP-FMD-Brucellosis
11.09.19	Dr. ManojKumar Sinha, Veterinary Surgeon	NADCP-FMD-Brucellosis
11. 09.19	Dr. Shilendra Kumar Sinha, DAHO	NADCP-FMD-Brucellosis
11.09.19	Dr. Ashok Kumar Singh, TVO	NADCP-FMFD-Brucellosis
11.09.19	Dr. Indu Shekhar, Sub Divisional Animal Husbandry Officer	NADCP-FMD Bruceloosis
11.09.19	Dr. Ajay Kumar Mishra, TVO	NADCP-FMD-Brucellosis
11.09.19	Dr. Md. Reyaz Ali, TVO, Gopalganj	NADCP-FMD-Brucellosis
11.09.19	Dr. Pawan Kumar, TVO, Kuchikote	NADCP-FMD-Brucellosis
17.09.19	Shri Aditya Narayan Pandey, Hon. MLC, Gopalganj	Plantation and distribution
17.09.19	Shri Manish Kumar Shrivatav, Nodal Officer	Plantation during Thawe Mahotsav
02.10.19	Md. A. Wajid, asiist Director (Hort.)	Jal Shakti Abhiyan
02.10.19	Shri Anil Kumar, Distt. Fisheries Officer	Jal Shakti Abhiyan
02.10.19	Dr. Alok Kumar Suman, Hon. MP, Gopalganj	Jal Shakti Abhiyan
02.10.19	Dr. Ved Narayan Singh, DAO, Goplalganj	Jal Shakti Abhiyan
02.10.19	Shri Pramod Kumar Patel, Zila Adhyaksh, JDU, Gopalganj	Jal Shakti Abhiyan
02.10.19	Dr. Ajay Kumar Mishra, TVO, Thawe	Jal Shakti Abhiyan
02.10.19	Shri Omprakash Rai, MLC representative, Gopalganj	Jal Shakti Abhiyan
02.10.19	Dr. Anupam Lal Kusumakar, DDM, NABARD	Jal Shakti Abhiyan
26.12.19	Dr. Anupam Lal Kusumakar, DDM, NABARD	SAC
26.12.19	Dr. MS Kundu, DEE, DrRPCAU, Pusa	SAC
05.01.20	Dr. Ravindra Kumar, Director Research,BASU	Visit

Q. Participation in National Conference, Summer/Winter School, Workshop, Training Programme etc.

Name of Scientists	Nature of Programme	Title	Venue	Date
Ramakrishna Roy	Workshop	Action Plan Finalization workshop	ATARI, Patna	16 th -17 th April, 2019
Ramakrishna Roy	Training	Kharif Mahabhiyan Commissionary level	Mazharul Haq stadium, Chapra	17 th May, 2019
Ramakrishna Roy	Meeting	Pre-EEC	DrRPCAU, Pusa	22 nd May, 2019
Ramakrishna Roy	Meeting	EEC	DrRPCAU, Pusa	25 th May, 2019
Ramakrishna Roy	Workshop	Zonal workshop of KVKs	UBKV, Coochbehar	8 th -10 th June, 2019
Md. Sajid Hussain	Meeting	Kharif Review meeting	Chapra	12 th June, 2019
Ramakrishna Roy	Training	Website uploading and management	DoEE, DrRPCAU, Pusa	26 th June, 2019
Ramakrishna Roy	Training	SREP	BAMETI, Patna	27 th June, 2019
Ramakrishna Roy Md. Sajid Hussain	Workshop	Agribusiness and Agri-clinic	Parishad Sabhagar, Gopalganj	9 th July, 2019
Er. Naveen Kumar	Training	PKVY	ICAR-RCER, Patna	17-18 th Sept, 2019
Ramakrishna Roy	workshop	CSISA-KVK Network	NASC complex	24 th -25 th Sept, 2019
Sanjay Kumar	Meeting	Interaction with farming community and extension system for IPM of fall army worm in Bihar	Dr. RPCAU, Pusa	17 th September, 2019
Er. Naveen Kumar	Training	Rabi Abhiyan Commissionary level	Chapra, Saran	10 th Oct, 2019
Shri Sanjay Kumar	Winter school	Employment and income generation for rural youth through mushroom production technique	Dr. RPCAU, Pusa	5 th -25 th November, 2019
Dr. Ramakrishna Roy Dr. Md. Sajid Hussain	Meeting	Fourth Seed Review meeting	TCA, Dholi	8 th November, 2019

Dr. Ramakrishna Roy	Meeting	QRT	Dr RPCAU, Pusa	11 th -12 th Dec, 2019
Dr. Ramakrishna Roy	Invigilator	DAESI exam	DAO office, Gopalganj	17 th Dec, 2019
Dr. Ramakrishna Roy Sanjay Kumar Dr. Md. Sajid Hussain, Er. Naveen Kumar Dr. Amit Visen Dr. Anita Gautam	Meeting	SAC	KVK, Gopalganj	26 th Dec, 2019
Dr. Ramakrishna Roy Er. Naveen Kumar	Demo	Mechanization Demo	DrRPCAU, Pusa	10 th Jan, 2020
Dr. Md. Sajid Hussain	Meeting	Block level Kisan salahkar samiti Gathan	DAO office, Gopalganj	18 th Jan, 2020
Dr. Ramakrishna Roy Dr. Md. Sajid Hussain	Workshop	CFLD	KVK, Piprakothe, E. Champaran	9 th -10 th Feb, 2020
Dr. Md. Sajid Hussain	Workshop	Rice research and development for doubling farmers' income	CRRI, Cuttack	28 th Feb, 2020
Dr. Ramakrishna Roy	Meeting	NHM	SDM office Gopalganj	6 th March, 2020

b. i. Kharif Mahabhiyan (Block level)

S.N	Date	Venue	No. of farmers
1	01.06.19	Kuchaikote and Manjha blocks	750
2	02.06.19	Thawe	180
3	03.06.19	Hathua	500
4	04.06.19	Unchkagaon	315
5	06.06.19	Bhore	350
6	07.06.19	Vijaipur	350
7.	08.06.19	Kateya	250

ii. Rabi Abhiyan sah Prasikshan Karyakram at Block level

S.N	Date	Venue	No. of farmers
1	22.10.19	Gopalganj, Vijaipur, Kateya	775
2	23.10.19	Bhore, Panchdeori, Phulwariya	1238
3	24.10.19	Unchkagaon, Thawe	845
4	25.10.19	Manjha	250
5	26.10.19	Barauli, Sidhwaliya, Baikunthpur	1065

R. PUBLICATION:

a. Research papers published (01.04.18 to 31.03.19)

Name of the author (s)	Year	Title	Name of the Journal	Vol. No. & Page No.

b. Book Chapters (01.04.18 to 31.03.19)

Name of the author (s)	Year	Chapter	Name of Book	Pages	Name of Publisher
Ramakrishna Roy and Brajesh Shahi	2019	Banana cultivation –A successful venture for regular income generation	Success stories: Pathways for doubling farmers income by 2022 in Bihar and Jharkhand(Ed. A. Halder et al)	51-53	ICAR-ATARI, Patna
Ramakrishna Roy, Sanjay Kumar, Md. Sajid Hussain and Amit Visen	2019	Gopalganj	DFI Action plan of KVKs Bihar	56-60	ICAR-ATARI, Patna

c. Technical bulletins published (01.04.18 to 31.03.19)

Name of the author (s)	Year	Title	Name of Publisher	No. of pages	No. of copies printed	Price

d. Popular articles published (01.04.18 to 31.03.19)

Name of the author (s)	Year	Title	Name of the Magazine	Vol. No. & Page Numbers

e. Extension pamphlets

Name of the author (s)	Year	Title	Published by	No. of copies
Dr. Md. Sajid Hussain, Sanjay Kumar	2019	Shashya vidhiyon dwara varshajal prabandhan evam sanrakshan	KVK Gopalganj	1000
Shri Sanjay Kumar, Dr. Md. Sajid Hussain	2019	Fall army worm ka samekit kit prabandhan	KVK Gopalganj	1000
Er. Naveen Kumar, Dr. Ramakrishna Roy, Dr. Amit Visen	2019	Tapaksinchai Pranali: Kam pani mein adhik upaj	KVK Gopalganj	1000
Dr. Ramakrishna Roy	2019	Khurpaka evam muhpaka rog	KVK Gopalganj	3000

Action Photographs



DFI Survey work



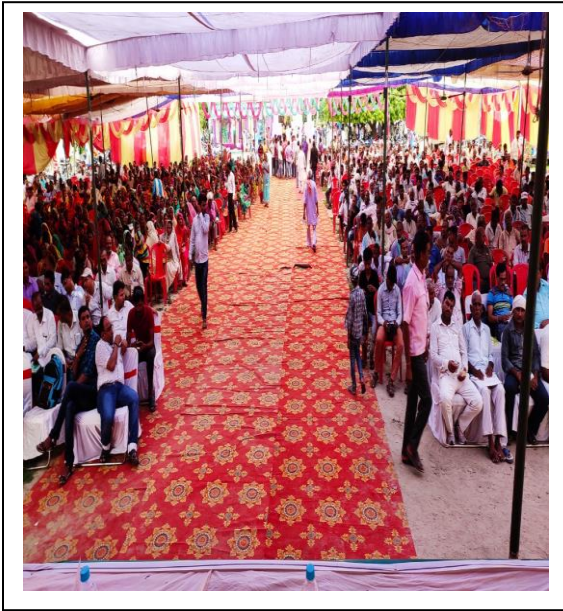
LASER leveling of KVK Farm



Plant distribution by Hon. MLC



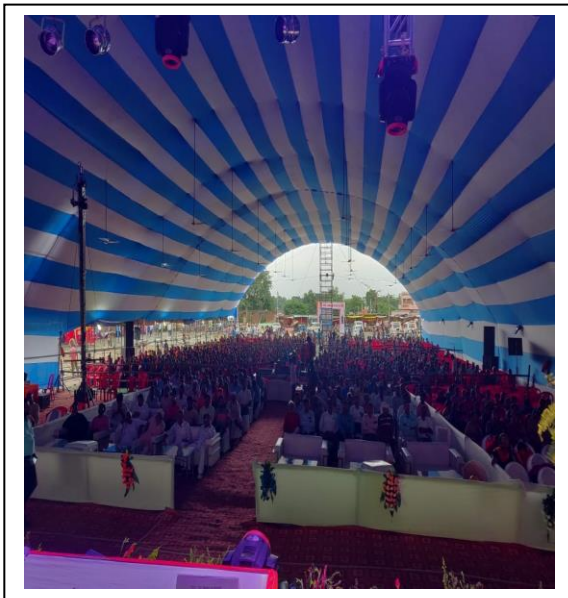
Khad Jagrukta Karyakram



Jal Skakti Abhiyan (JSA)-Unchkagaon



Inauguration-JSA-Unchkagaon



JSA-Thawe



Microirrigation-Demo-JSA-Thawe



Live Telecast-NADCP-FMD Brucellosis



Farmers/officials viewing telecast



FMD-Vaccination –Vet. Doctors



CFLD-Oilseed



Field Day



CFLD- Pigeonpea



FLD-Berseem



Global Potato Conclave



Importance of SHC -Amethi Kala



Farmers for receiving SHC-Amethi Kala



Off Campus Training



EF Training



Women Day-CDPO-Anganwadis-Prog.



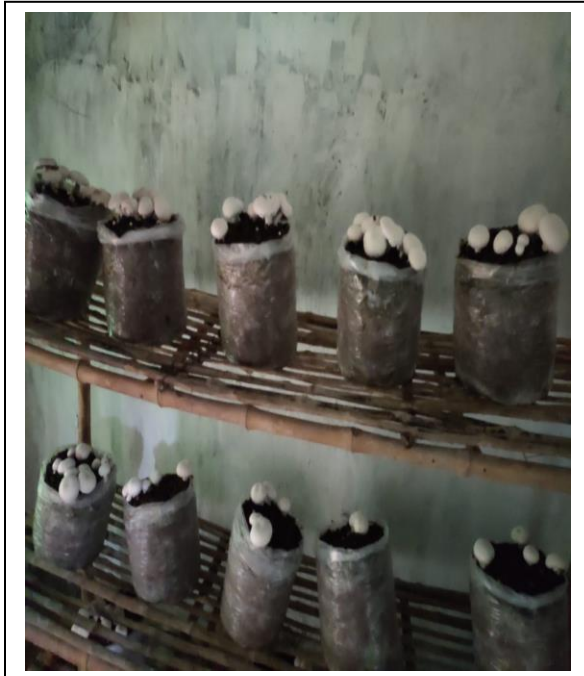
Women Day- Poshan Vatika



Waste Decomposer Training cum distr.



Drip irrigation being laid in orchard



Button mushroom grown by trainees



Exposure visit-Kisan mela-DrRPCAU



Field Trial of tools



Rajendra Ganna 1 Planting at KVK