24th Extension Education Council Meeting

Dated:- 19.05.2023

Krishi Vigyan Kendra, Katihar

Presented By : Dr. Kumari Sharda

Senior Scientist & Head

Major Achievement of KVK

- **Training programme for Practicing Farmers/Farm women/ Rural Youth/ Extension functionaries:**

Discipline	No. of Courses	No. of Participants
Crop production	21	**601**
Horticulture	16	**362**
Home Science	14	**415**
Extn. Education	18	**533**
Total	**69**	**1911**

- **Sponsored training programme**

Training programme	Duration	No. of Participants	Sponsoring agency
Poshan Abhiyan Cum Plantation Drive	17.09.2022	51	IFFCO
Bamboo craft training Programme	05.11.2022	40	Bharat Jyoti
Kisan Mela cum Exhibition	14.11.2022	94	ATMA, Katihar
Kisan Vani Programme on International Women's day	03.03.2023	29	AIR, Purnea
Bihar Diwas	22.03.2023	40	ATMA, Katihar

KVK Award

Institution	Award
KVK, Katihar	First award at Krishi Vividhikaran Stall at BAU Kisan Mela 2023
KVK Katihar, BPSAC Purnea, KVK Supaul, KVK Araria	First award at BAU Kisan Mela 2023 (One district one product)

Farmers Award

Name	Award
Sri Sushil Kumar Singh	Best Farmer Award during Kisan Mela 2023 at BAU, Sabour
Sri Panch Lal Mandal	First Prize in category of Tomato & Beet in Horticultural Exhibition during Kisan Mela 2023 at BAU, Sabour

Special Days celebrated:-

Sl.No.	Date	Activity	No. of Participants
1.	12.08.2022	Azadi ka Amrit Mahotsav	45
2.	07.09.2022	Poshan Saptah	38
3.	15.10.2022	International Women Farmer Day	43
4.	17.10.2022	Pradhan Mantri Kisan Samman Sammelan	300
5.	18.10.2022	Swachhta Programme	36
6.	19.10.2022	Swachhta Programme	61
7.	05.12.2022	World Soil Day	77
8.	27.02.2022	Awareness Programme on Pradhan Mantri Kisan Samman Nidhi Programme	51
9.	21.03.2023	First KVK establishment Day cum International Forestry Day	46
10.	22.03.2023	Bihar Diwas	40

Soil samples analyzed:

Number of soil samples analyzed	No. of Farmers Benefitted	No. of Villages
128	110	29

RAWE Programme

Sl. No.	No of students	Name of University/College	Duration
1.	16	B.P.S.A.C., Purnea	31.09.2022 to 11.01.2023
2	10	B.P.S.A.C., Purnea	10.02.2023 to till date

TSP Activities

Sl. No.	Items	No. of tribal family benefited
1.	Sprayer	80
2.	Chicks (Vanraja)	60

Title of OFT	Technology Option	Result
Improvement of nitrogen use efficiency in wheat	FP : RDF (100:40:20 N:P:K) kg/ha TO_1: 50% RDN& 100 % PK + Nano urea @ 4ml/lit. water (Single spray at 35 DAS) TO_2: 50% RDN& 100 % PK + 2 spray of Nano urea at 35 DAS and 60-65 DAS Nano urea @ 4ml/lit. water	50% RDN& 100 % PK + 2 spray of Nano urea @ 4ml/lit water at 35 DAS and 60-65 DAS was found better than other treatment as it gives higher grain yield (40.18q/ha) net return Rs. 50762/ha andB:C ratio (2.68)
Integration of fertilizer in different form on yield of lentil	FP: Seed treatment +RDF TO_1: 50% RDF +WS 18:18:18 @ 5gm/liter water (single spray at flowering stage) TO_2: Seed treatment with PSB + Rhizobium, 50% RDF +WS 18:18:18 @ 5gm/liter water (single spray at flowering stage)	Seed treatment with PSB + Rhizobium, 50% RDF +WS 18:18:18 @ 5gm/liter water (single spray at flowering stage) was found better than other treatment higher grain yield (13.12q/ha), net return (Rs.43560/ha) and B:C ratio (2.52)
Assessment of Different Kinds of preservatives (Vinegar) for increasing Shelf life of mushroom pickles.	FP: - No use of chemical preservative TO_1: use of Apple vinegar TO_2: use of Jamun vinegar	Result awaited
Assessing the Extension Education Methods for awareness and use of Soil Health Card.	To_1: Farmers having SHC with Training Literature TO_2: Farmers having SHC with Training Literature To_3: Farmers having SHC with Training Literature and Customized Social Media Advisory	Result awaited

OFT Result

Title- Improvement of nitrogen use efficiency in wheat

FP : RDF (100:40:20 N:P:K) kg/ha

TO_1: 50% RDN& 100 % PK + Nano urea @ 4ml/lit.water (Single spray at 35 DAS)

TO_2: 50% RDN& 100 % PK + 2 spray of Nano urea at 35 DAS and 60-65 DAS Nano urea @ 4ml/lit. water

Treatment	Plant ht (cm)	No. of tillers/sq m	Test wt (gm)	Grain wt (q/ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
FP	91.23	304.15	38.45	35.19	70908	42257	2.47
TO_1	95.17	343.76	39.64	38.77	78181	48321	2.62
TO_2	98.64	354.17	40.25	40.18	80962	50762	2.68

Title- Integration of fertilizer in different form on yield of lentil

FP: Seed treatment +RDF

TO_1: 50% RDF +WS 18:18:18 @ 5gm/liter water (single spray at flowering stage)

TO_2: Seed treatment with PSB + Rhizobium, 50% RDF +WS 18:18:18 @ 5gm/liter water (single spray at flowering stage)

Treatment	Plant ht (cm)	Plant/sq m	No. of pods/plant	Grain wt (q/ha)	Gross return (Rs./ha)	Net return (Rs./ha)	B:C ratio
FP	30.61	158	23	10.13	55715	28065	2.02
TO_1	31.42	161	26	12.64	69520	41320	2.47
TO_2	32.74	165	28	13.12	72160	43560	2.52

Achievement of Front Line Demonstrations

Crop	Name of the technology demonstrated	Area(ha)	Yield (q/ha)		% increase	*Economics of demonstration (Rs./ha)		*Economics of check (Rs./ha)	
			Demonstration	Check		Net Return	BCR	Net Return	BCR
Cauliflower	Seed (Sabour Agrim)	03	175	148	15.42	193680	**2.24**	155590	**1.91**
Brinjal	Seed (PH 6)	01	326	241	13.80	361119	**3.70**	256995	**3.19**
Paddy	Bio fertilizer (Azotobactor & P.S.B.)	4	40.85	32.05	27.45	37060	**2.30**	17420	**1.66**
Paddy	Seed (Sabour Ardhjal)	4	40.05	32.60	22.85	37380	**2.40**	26160	**2.01**
Fodder Sorghum	Seed (CSV33 MF)	4	696.5	539.65	16.93	112800	**5.25**	58347	**3.58**
Jute	Weedicide (Pendimethlin)	4	Crop standing in field						

Cluster Front Line Demonstrations

Crop	No. of Farmer	Area	Yield (q/ha)		% increase	Economics of Demonstration (Rs/ha)			Economics of Check (Rs/ha)		
			Demo	Check		Gross Return	Net Retur n	BCR	Gross Return	Net Return	BCR
Soya bean	50	20	17.45	13.32	31	68928	44328	2.8	52614	30114	2.34
Mustard	50	20	13.47	10.22	24.12	68023	46523	3.16	51611	31961	2.62
Green gram	50	20	Crop standing in field								
Black gram	50	20	Crop standing in field								

❖ Gramin Krishi Mausam Seva:

No. of Blocks Agromet advisory bulletin published - **16**
No. of advisory bulletin published - **48**
Advisory prepared in both languages: **Hindi and English**.
No. of farmers receiving Agromet advisory bulletin through social media- **8500**

❖ KVK Farm

Crop	Season	Area (ha)	Quality of seed	Production (qt)
Makhana	Rabi	1.5	TFL	17.30
Paddy	Kharif	2.5	C/S	99.00
Wheat	Rabi	2.0	C/S	59.00

Special Initiatives

❖ **Popularization of mushroom and makhana in malnourished village : LAHSA**

Crop	No. of farmer	No. of Bags/ Area (ha)
Mushroom	30	950
Makhana	25	20

❖ **Popularization of Sunflower & Millets**

Crop	Area (acre)
Sunflower	25
Millets (Pearl millet, Finger millet, Proso millet)	30
Sabour Makhana-1 (seed production at KVK , Farm)	04

MAJOR ACHIEVEMENT OF CRA PROGRAMME

CRA Kharif – 2022 Result

Crop	Variety	Technology	Area (acre)	Grain Yield(Q/ha)		Net Return		B:C Ratio	
				Demo	Local Check	Demo	Local Check	Demo	Local Check
Paddy	Arize 6444Gold, 27P31, 27P37, Arize 6129 Gold, Arize Tej Gold, MC 13 , MR 8383, Swarna Sub -1	DSR	405	48.64	37.12	75724	70677	3.48	2.87
	PAC 8744, BB 11, Rajendra Bhagwati	AWD	15	46.39	36.18	65387	47607	3.24	2.81
	MTU 7029, Rajendra Sweta,	FD& WH	15	42.65	37.23	58806	49749	3.09	2.89
	MR 8383, Swarna Sub -1, BB 11	INM	15	43.25	37.14	60080	49565	3.13	2.88
Maize	P3377,DKC 7074, DKC 9144,PAC 751	Raised bed	90	74.14	65.23	100141	84480	3.60	3.25

CRA Kharif – 2022 Result

Crop	Variety	Technology	Demonstration	Grain Yield(Q/ha)		Net Return		B:C Ratio	
				Demo	Local Check	Demo	Local Check	Demo	Local Check
Sorghum	CSV -15	Raised Bed	4	28.62	23.65	45534	32987	2.36	2.02
Foxtail millet	SIA 3156	Line sowing	15	12.75	10.13	22149	14842	2.28	1.90
Finger millet	CFMV-1	Line sowing	12	21.65	18.25	50612	40330	3.25	2.89
Pearl millet	HHB 272	Raised bed	8	32.16	24.36	48860	33210	3.08	2.54
Groundnut	JL 24	Raised Bed	4	15.38	12.52	50559	35886	2.45	2.07
Soybean	P-1241	Raised Bed	4	17.2	13.14	43340	29403	2.76	2.31

Result Rabi season (2022-23)

Crop	Name of Technology	Area (acre)	Name of the Variety	Grain Yield (q/ha)		Net Return (Rs/ha)		B:C ratio	
				Demo	Local check	Demo	Local check	Demo	Local check
Maize	Raised bed	490	P3355, ADV 757, DKC 9081, P3388, NK 7720	102.4	85.34	132880	104878	4.23	3.61
Wheat	Raised bed	90	HD 2967, DBW 187, HD 2733	43.9	34.62	56958	104878	2.81	2.29
Wheat	Zero tillage		DBW 303, DBW222	41.6	34.45	54024	39359	2.80	2.28
Wheat	INM		DBW 187, HD 2733	41.21	34.32	51838	39016	2.66	2.27
Lentil	Zero tillage	10	K. Khyati, K. sinduri, K. Jyoti	12.43	8.97	39515	38754	2.37	1.77
Mustard	Raised bed	20	RH-749	15.62	11.4	52152	21435	3.65	2.87
Potato	Potato based farming system	5	RVG-202	206	178.4	66250	52340	2.34	2.10
Chickpea	Raised bed	5	IPL-316	11.96	9.24	66251	52341	2.33	1.98

Long Term Experiment at KVK, Farm

S. No.	Cropping Systems	Technology	Area (ha)
1	Paddy- wheat- Green gram	INM- Raised bed-Zero tillage	0.1
2	Paddy- wheat- Green gram	AWD - Raised bed-Zero tillage	0.1
3	Paddy- wheat- Green gram	AWD - INM-Zero tillage	0.1
4	Paddy- wheat	Conventional- Conventional	0.1
5	Paddy- wheat- Green gram	INM - INM-Zero tillage	0.1
6	Paddy- maize- Green gram	FD- Raised bed--Zero tillage	0.1
7	Paddy- mustard	FD- Raised bed	0.1
8	Paddy- wheat- Greengram	INM- Raised bed-Zero tillage	0.1
9	Paddy- wheat	DSR- Zero tillage	0.1
10	Paddy- wheat	AWD - Raised bed	0.1
TOTAL			**1.0**

Summer Season Crops-2023

S. No.	Crop name	Name of the Variety	Intervention	Achieved Area (acre)
1	Green gram	IPM 205-07, Shikha	Zero tillage	217
2	Jute	JBO 2003	Zero tillage	15
3	Sunflower	PAC 334	Raised bed	8
4	Dhaincha			10
TOTAL				**250**

Laser Land Leveling Campaign

Topic	Season	Area (acre)
Land Leveling (completed)	Rabi 2022-23	45
Land Leveling (under planning)	Summer 2022-23	55
Total		**100**

Land Leveling by Laser Land leveler under CRA programme

Success Story/Case Study

Name of farmer- Sri Gopal Mishra

Village- Rautara, Korha, Katihar

Age - 40 Years, **Education** :- Intermediate

Sabour Makhana -1 provides additional Income of Rs. 332625.00 per year/ha

Year	Makhana Production (q/ha)	Selling Price of Makhana (Rs./q)	Gross Return (Rs./ha)	Cost of cultivation (Rs./ha)	Net return (Rs./ha)
2019	25	11500	287500	127500	160000
2020	26.5	12000	318000	131200	186800
2021	28	14800	414400	136000	278400
2022	30	15800	474000	141375	332625

- Act as a Master Trainer for Makhana growing Farmers
- Area Expansion of Sabour Makhana-1 inRautara and Nearby villages

किसानों के बीच मखाना, मशरूम और केला उत्पादन के लिए सामग्री का किया वितरण

बायोटेक किसान हब परियोजना में किसान-वैज्ञानिक मिलन समारोह आयोजित

भास्कर न्यूज | कटिहार

कृषि विज्ञान केंद्र कटिहार में बायोटेक किसान हब परियोजना के अंतर्गत किसान व वैज्ञानिक मिलन समारोह कार्यक्रम का आयोजन किया गया। कार्यक्रम का शुभारंभ कृषि विज्ञान केंद्र के प्रधान वैज्ञानिक डॉ रीता सिंह, किसान संचार एग्रो प्रोड्यूसर के निदेशक श्वेता राय, प्रगतिशील किसान गोपाल मिश्रा ने संयुक्त रूप से दीप प्रज्वलित कर किया।

किसान व वैज्ञानिक मिलन समारोह में प्रधान वैज्ञानिक डॉ रीता सिंह ने बायोटेक किसान हब परियोजना के अंतर्गत जिले के प्रगतिशील किसानों को मखाना, मशरूम एवं केला उत्पादन के लिए आवश्यक सामग्री दी। ताकि जिले में मशरूम मखाना एवं केला के खेती को ज्यादा से ज्यादा बढ़ावा मिल सके। साथ ही किसानों के आर्थिक एवं सामाजिक स्थिति में सुधार हो और वे आत्मनिर्भर बन सकें। कार्यक्रम में जिले के रौतारा निवासी प्रगतिशील किसान गोपाल मिश्रा ने मखाना से संबंधित खेती के बारे में कहा कि पहले मखाना का लोकल प्रभेद की खेती करते थे। उसमें प्रति हेक्टेयर 15 से 16 क्विंटल उपज होता था। वर्ष 2019 में बायोटेक किसान हब परियोजना के अंतर्गत सबौर मखाना 1 प्रभेद की खेती की शुरुआत की। अब मखाना प्रति हेक्टेयर 30 से 32 क्विंटल उपज हो रही है। पहले मखाना की खेती में एक लाख शुद्ध लाभ हो रहा था। अब ढाई लाख रुपए से अधिक हो रहा है। उन्होंने कहा कि लोकल प्रभेद का मखाना लावा का प्रतिशत 40 था, वही सबौर मखाना 1 का लावा प्रतिशत 52 है। वही कार्यक्रम को किसान संचार एग्रो प्रोड्यूसर कंपनी लिमिटेड के निदेशक श्वेता राय ने भी संबोधित किया। वैज्ञानिक व किसान मिलन समारोह में कृषि विज्ञान केंद्र के वैज्ञानिक डॉक्टर केपी सिंह, डॉ सुशील कुमार सिंह, स्वीटी कुमारी, प्रियंका कुमारी, राजू कुमार, ओम प्रकाश भारती, मुकेश कुमार एवं विश्वजीत दत्ता, राघे छात्र एवं छात्राएं, कृषक कर्नल उदय शंकर वर्मा, पंच लाल सिंह, बालेश्वर सिंह, विवेक कुमार आदि उपस्थित थे।

कार्यक्रम का शुभारंभ करते किसान व वैज्ञानिक।

Year	Increase in Area(ha)
2020	24
2021	52
2022	84

Success Story

Name of entrepreneur – Kumari Prity
Address - Village/city - Sarifganj,
Block – Katihar, District – Katihar, Bihar
Mob No. – 9471675435
Educational Qualification – Intermediate
Technical Support – KVK, Katihar

Products	Production (Kg/Year)	Rate (Rs/Kg)	Cost of Cultivation	Gross Income	Net Income	B:C Ratio
Papad	60	400	6000	24000	18000	4:1
Pickles	50	600	13000	30000	17000	2.3:1
Barri	70	270	8000	18900	50250	2.3:1
Jhalmurhi	200	250	20000	50000	30000	2.5:1
Mushroom Powder	32	1800	14000	57600	43600	4.1:1
Dry Mushroom	28	1500	12000	42000	30000	3.5:1

Additional source of income Rs. 188850/year

Achievements of Natural Farming

Category	No. of programme	No. of participants
Awareness Programme	10	980
Training	01	40
Demonstration	08	08
Total	**19**	**1028**

कृषक गोष्ठी. कृषि विज्ञान केंद्र में प्राकृतिक खेती पर किसान संवाद कार्यक्रम

स्वस्थ जीवन व स्वस्थ समाज के लिए जरूरी है प्राकृतिक खेती : कृषि राज्य मंत्री

किसानों को आत्मनिर्भर बनाने के लिए केंद्र सरकार प्रतिबद्ध : कैलाश

मंत्री ने प्रधानमंत्री की कल्याणकारी योजनाओं को गिनाया

Bihar Skill Development Mission

S.N.	Name of Training	Domain/ RPL	Hours	Start Date	Completion Date
1	Gardener	Domain	400	01.03.2023	25.05.2023
2	Vermi compost producer	Domain	420	15.03.2023	22.05.2023
3	Gardener	RPL	80	20.03.2023	15.04.2023

Status of Revolving Fund

Balance as on 31.03.2023
24,20,331.00

Thanks