

KRISHI VIGYAN KENDRA BARH, PATNA**25th Extension Council Report, 2023****April- 2023 to September- 2023****1. Staff Position (Only Senior Scientist & Head and S.M.S)**

S. N.	Name	Post	Specialization	Date of joining	Mobile No.
1.	Dr. Reeta Singh	Senior Scientist & Head	Home Science	09.07.2019	9931312288
2.	Dr. Mrinal Verma	SMS,	Agril. Engineering	25.07.2007	9431266300
3.	Sri Rajeev Kumar	SMS	Soil Science	12.04.2012	9122763207

2. (A). Achievement of training program for Farmer (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science	04	54	20	08	23	62	43
ii	Agril. Engineering	13	291	41	51	45	342	86
iii	Extension Education	08	69	80	25	84	94	164
iv	Soil Science	13	201	65	57	42	258	107
	Total	38	615	206	141	194	756	400

(B). Training Program for Rural Youth (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Agril. Engineering	02	40	04	07	0	47	04
ii	Extension Education	03	67	04	12	02	79	06
iii	Soil Science	02	37	01	07	0	44	01
	Total	07	144	09	26	02	170	11

(C). Training Program for Extension Functionaries (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science							
ii	Agril. Engineering							
iii	Soil Science	01	08	04	0	0	08	04
	Total							

(D). Sponsored training program (ON/OFF)

S. No.	Discipline	Course no.	No. of Beneficiaries					
			Others		SC/ST		Total	
			M	F	M	F	M	F
i	Home Science	03	128	07	02	20	130	27
ii	Agril. Engineering	09	404	24	68	07	472	31
iii	Soil Science	02	90	11	11	07	101	18
	Total	13	622	42	81	34	703	76

(E). Special Program.

S. No	Name of Program	Date of Program	Place of Program	No. of Participant	Visit of VIPs.
1	PM Live telecast	30.04.2023	KVK, Barh	57	Sri Ghanshyam Kumar, ATMA
2	World Environment Day	05.06.2023	KVK, Barh	110	-
3	World Yoga Day	21.06.2023	KVK, Barh	15	
4	PM Live telecast (PM Kisan Samman Nidhi)	27.07.2023	KVK, Barh	92	Sri Ghanshyam Kumar, ATMA Sri Rajesh Singh Raju, BJP, Barh
5	Ex- Trainees Sammelan	04.08.2023	KVK, Barh	34	Dr. Mukesh Kumar, Principal VKSAC, Dumrao
6	22th SAC Meeting	12.08.2023	KVK, Barh	21	Dr. R.K. Sohane, DEE, Sabour Dr. Amrendra, Kumar, Pr. Sc., ATARI, Patna
7	Har Ghar Tiranga	14.08.2023	Rana Bigha, Barh	32	-
8	Meri Maati Mera Desh	15.08.2023	KVK, Barh	15	-
9	Parthenium Awareness Week	17.08.2023 & 22.08.2023	Agwanpur & KVK. Barh	62	-
10	National Nutrition Week	02.09.2023	Bedhna	28	-

3. (A) Front Line Demonstration, 2022-23

Crop	Variety	Area (ha)	Session	Village/Block	Beneficiaries		Total
					SC/ST	Others	
Pearl millet	MPMH-21	5.0	Kharif	Manjhla Bigha, Tilhar, Kamrapar, Dahaur, Simari, Anantpur, Pandark	04	23	27
Sorghum	CSV-41	1.75	Kharif	Chajalal, Tilhar, Kamrapar, Dahaur, Anantpur	06	18	24
Foxtail	SIA-3156	1.4	Kharif	Kamrapar, Dahaur, Simari, Badipur, Mohani pokhar, Pandarak	06	22	28
Kodo	JK-41	1.3	Kharif	Kamrapar, Bariyarpur, Badipur, Anantpur, Dahaur, Pandarak	0	08	08
Finger millet	A-404	2.0	Kharif	Simari, Badipur, Anantpur	0	05	05
Barnyard millet	DHBM-93-2	0.8	Kharif	Badipur, Dahaur, Pandarak	0	04	04
Total					16	80	96

4. Climate Resilient Programme
(A) CRA Village (Summer, 2023)

Crop/ Intervention	Target (acre)		Achievement (acre)		Yield (q/ha)		Yield Increase (%)
	Area	Demo	Area	Demo	Demo	Check	
Moong (Sikha) ZT	260	260	260	87.5	12.54	11.02	13.8
Moong (Varsha) ZT				84.0	11.32	10.48	08.05
Moong (IPM2-3) ZT				88.5	12.04	10.34	16.44
Laser Land Levelling (2023)	100	100	100	100	-	-	-
Total	360	360	360	360			

(B) CRA Village (Kharif, 2023)

Intervention	Target (acre)	Achievement (acre)
Paddy DSR	325	98
Paddy Line Transplanting	--	227
Paddy AWD	80	80
Paddy WH&FB	40	40
Paddy Nutrient Expert	55	55
Soyabean (Raised Bed)	60	60
Millets	10	10
Community Irrigation	25	25
Total	595	595

(C) Long Term Experiment (KVK, Farm) Kharif, 2023

S.No.	Crop/Intervention	Plot Size (m ²)	Sowing Date	Crop Name	Variety
1	Paddy (Line Transplanting)	900	19-07-2023	Paddy	R. Sweta
2	Direct Seeded Rice	900	19-06-2023	Paddy	R. Sweta
3	Direct Seeded Rice	900	16-06-2023	Paddy	R. Sweta
4	Maize (Raised Bed)	900	23-06-2023	Maize	P 3378
5	Direct Seeded Rice	900	19-06-2023	Paddy	R. Sweta
6	Finger millet (Line Transplanting)	900	15-06-2023	Finger millet	A-404
7	Direct Seeded Rice	900	19-06-2023	Paddy	R. Sweta
8	Sesamum (Conventional)	900	08-04-2023	Sesamum	Snow white

9	Paddy (Line Transplanting)	900	19-07-2023	Paddy	R. Sweta
10	Paddy (Conventional)	900	19-07-2023	Paddy	R. Sweta

5. Technology Day Celebration

Date	Place	Participants		Total
		Male	Female	
16.07.2023	KVK, Barh	87	23	110
17.07.2023	Nadauna, Masaurih	17	03	20
18.07.2023	KVK, Barh	22	0	22

6. SCSP, Programme

Crop	Variety	No./Area (acre)	Village & Block	Beneficiary SC	
				Male	Female
Vegetables	Nutri kit	31	Kamrapar, Athmalgola	21	10
Pearl millet, Sorghum, Foxtail, Little millet, Finger millet, Kodo	MPMH-21, CSV-41, SIA-3156, JK-41, A-404, DHBM-93-2	05	Kamrapar, Simri	28	6

7. Natural Farming

(A) Capacity Building Programme

Date	Topic	Place/ Village	No. of Beneficiaries		Total
			Male	Female	
28.06.2023	Prospects of Natural Farming	KVK, Barh	32	01	33

(B) Awareness Programme

Date	Place/ Village	No. of Beneficiaries		Total
		Male	Female	
21.04.2023	Pandarak	17	07	24
27.06.2023	Simari, Bakhtiyarpur	18	0	18
01.07.2023	Aropur, Naubatpur	19	0	19

(C) Performance of Demonstration

Crop	Variety	Area (Acre)	Date of Sowing	Demonstration Place
Okra	Jhilmil	0.5	25.06.2023	Chak Nawada

8. Malnutrition Eradication

(A) Awareness Programme

Date	Village	No. of Beneficiaries		Total
		Male	Female	
22.05.2023	Ranabigha, Barh	10	08	18
23.05.2023	Agwanpur, Barh	06	13	19
29.05.2023	KVK, Patna	0	22	22
31.05.2023	Dahour, Barh	29	0	29

01.06.2023	Bakhtiyarpur	06	07	13
08.06.2023	Barh	14	44	58
05.07.2023	Ekdanga, Belchi	08	16	24

(B) Baseline Survey

Name of Village	No. of People Surveyed		Total
	Male	Female	
Rana Bigha	10	08	18
Agwanpur	06	13	19
Masathhu	07	12	19
Ekdanga, Belchi	15	20	35

9. Millet Promotion Activities

Capacity Building & Awareness Programme

Topic	Place	No. of Training	Beneficiaries		
			Male	Female	Total
Capacity building on Millet	KVK, Barh	01	06	17	23
Awareness Programme on Millet	Moglani, Belchi	01	18	12	30
Scientific cultivation of Millet	Kamrapar, Athmalgola	02	39	13	52
Importance of millet in climate change.	KVK, Barh	01	14	39	53
Awareness Programme on Importance of millet in nutritional security and for sustainable agriculture.	Kamrapar, Athmalgola	01	11	27	38
Cultivation of millet in climate change. Processing & value addition of different millets	Simari, Bakhtiyarpur	01	17	2	17
Total		07	105	108	213

10. Community Radio Station (91.2 FM)

Name of CR:	Community Radio Station, Barh, Patna
Frequency:	91.2 Mhz
Establishment Date:	31 st May 2011
Total hours of transmission in a day:	07 hrs
Coverage Area:	20 km Ariel distance

Programme Broadcast

Programme	Broadcast Duration	Broadcast Time
Krishak Manch	60	Morning
Mahila Jagat	60	
Swasthya Charcha	45	
Bal Manch	15	
Lok Rang	30	
Krishak Manch	60	Afternoon
Swasthya Charcha	60	Evening

Mahila Jagat	30	
Lok Rang Swasthya Baan	30	
	30	

11. Resource Generation

S.No.	Name of the programme	Purpose of the programme	Amount
1	Bank Interest	Bank Interest	1,12,406.00
2	Kisan Ghar/ Training Hall	Training Programme	1,36,880.00
3	CRS Smart, New Delhi	TB Challenges	78,020.00
Total			3,27,306.00

12. Revenue Generation

S.No.	Name of Head	Income(Rs.)
1.	Sale of Fish	2,625.00
2.	Sale of Guava Fruit	5,000.00
3.	Sale of Ragi seed	9,600.00
4.	Sale of Mushroom	300.00
5.	Sale of News Paper (Scrap)	2,380.00
6.	Sale of Onion	6,624.00
7.	Sale of Potato	10,800.00
8.	Sale of Paddy seed	3,83,338.00
9.	Sale of Plants	15,850.00
10.	Soil Testing	4,24,600.00
11.	Sale of Vegetables	1,290.00
Total		8,62,432.00

13. Revolving Fund

Opening balance as on 01.04.2023	Fund generated	Fund Available 31.03.2023	
		Cash	Kind
55,91,536.05	14,92,853.00	79,38,141.05	25,00,000.00 (Approx.)

14. Awards/Recognition received by the KVK, 2023

Sl. No.	Name of the Award	Name of the Scientist	Year	Conferring Authority
1	Best Scientist Award	Sri Rajeev Kumar	2023	ATARI, Patna
2	Best Non-Teaching Award	Sri Jayant Prasad	2023	BAU, Sabour

15. Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1	Best Farmer Award	Sri Ramesh Ranjan	2022	BAU, Sabour	Certificate	Best Farmer of Patna District.
2	Best Farmer Award	Sri Ravi Prakash	2023	ATARI, Patna	Certificate	Mushroom Production

16. Soil sample analyzed

Details	No. of Samples	No. of Farmers	No. of villages
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Soil sample analysis	405	405	06
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17. Seed Production (Rabi- 2022)

Crop	Variety	Area (ha)	Class	Production (q)
Gram	S. Chana-1	2.4	C/S	15.10
Rai	RH-725	1.7	T/L	30.60
Wheat	DBW-187	5.4	T/L	196.80
Lentil	IPL-316	3.8	C/S	64.80
Moong	Shikha	2.6	F/S	17.50
Paddy	S. Sampann	3.7	C/S	Crop Standing
Paddy	R. Sweta	1.7	C/S	Crop Standing
Arhar	IPA-203	0.6	F/S	Crop Standing

18. Other extension activities

Activities & sub activities	No. Programme	No. of Beneficiaries
Scientist visit to farmers field	20	122
Farmer's visit to KVK	172	1073
Diagnostic Visit	02	28
Newspaper coverage	35	Mass
Kisan Goshthi	04	83
Advisory services/Helpline services	37	315
Publication of Krishak Samachar	01	500
Kharif Maha Abhiyan	04	98
Survey for Man ki Baat	01	30
Method Demonstration	04	161
Har Ghar Tiranga	01	38
Parthenium Eradication Programme	02	60

19. Special Initiatives/Innovation

- ✓ Potato cultivation through Zero-tillage method (Best way of crop residue management)
- ✓ Promotion of Nutri- Cereals (Millets) through Awareness, Training & Demonstrations
- ✓ Promotion of Moringa in daily diet and popularization of among Angawadi Women's
- ✓ Introduction of Soybean production in CRA village.

20. Training program to be organized (July 2023 to December 2023)

Home Science

Thematic Area	Title of Training	Period	Duration	Venue OFF/On	Participants/Trainees									
					SC		ST		Other		Total			
					M	F	M	F	M	F	M	F	T	
Practicing Farmer														
Minimization of nutrient loss in processing	Importance of Nutrigarden	4 th Qtr.	02	OFF	0	5	0	0	0	15	0	20	20	
Rural Youth														
Income Generation activities for woman	Value addition of Tomato and other vegetable.	3rd Qtr.	01	ON/OFF	0	5	0	0	0	15	0	20	20	
Extension Functionaries														
Capacity building	Capacity building of Aanganwari workers related to nutria cereals (Millets)	3 rd Qtr.	01	ON/OFF	5	0	0	0	15	0	20	0	20	

Agricultural Engineering

Thematic Area	Title of Training	Period	Duration	OFF/ On	Participants/Trainees									
					SC		ST		Other		Total			
					M	F	M	F	M	F	M	F	T	
Practicing Farmer														
Other	Transplanting of Ragi.	3 rd Qtr	1	ON/ OFF	3	0	0	0	17	0	20	0	20	
Farm Machinery	Direct seeding of rice by DSR planter	Do-	1	ON/ OFF	5	0	0	0	15	0	20	0	20	
Resource conservation Technique	Use and advantages of Self Propelled rice transplanter	Do-	2	ON/ OFF	5	0	0	0	15	0	20	0	20	

Other	Use & advantages of super seeder in combine harvested paddy field.	-Do-	1	ON/ OFF	3	0	0	0	17	0	20	0	20
Resource conservation Technique	Use of Happy seeder for residue management	4 th Qtr.	1	ON/ OFF	4	0	0	0	16	0	20	0	20
Micro-irrigation	Water conservation techniques in irrigation	-Do-	1	ON/ OFF	3	0	0	0	17	0	20	0	20
Micro irrigation	Drip irrigation/sprinkler irrigation	-Do-	1	ON/ OFF	3	0	0	0	17	0	20	0	20
Rural Youth													
Protected cultivation	Resource conservation techniques for vegetable crop.	3 rd Qtr.	2	ON/ OFF	2	0	0	0	18	0	20	0	20
Repair & maintenance of farm implements	Custom hiring of agricultural machinery	-Do-	2	ON/ OFF	5	0	0	0	15	0	20	0	20
Repair & maintenance farm implements	Developing skills to manufacture small hand tools/ use of small tools for drudgery reduction.	4 th Quarter	2	ON/ OFF	3	0	0	0	17	0	20	0	20
Extension Functionaries													
Protected cultivation	Zero tillage technology and use of different machineries	-3 rd Quarter	1	ON/ OFF	0	0	0	0	15	0	15	0	15
Care & maintenance of farm implements	Advantage of nutrient spray by drone in rai & wheat.	4 th Quarter	1	ON/ OFF	3	0	0	0	17	0	20	0	20

Soil Science

Thematic area	Title of Training	Period	Duration	Venue	Participants								
					SC		ST		Other		Total		
					M	F	M	F	M	F	M	F	T
Practicing Farmer													
Soil fertility management	Importance of balanced fertilizer application in vegetable crop	3 rd Quarter	2	OFF	5	0	0	0	18	2	23	2	25
Soil and water testing	Importance of soil testing for better crop production	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Integrated nutrient management	Integrated nutrient management in pulses	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Management of problematic soil	Reclamation of usar land	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Micronutrient deficiency in crop	Importance of boron nutrition in managing hollow heart and browning of cauliflower	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Nutrient use efficiency	Importance of PSB culture in improving P use efficiency	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Soil fertility management	Importance of green manuring in soil fertility management	4 th Quarter	2	OFF	5	0	0	0	18	2	23	2	25
Soil and water conservation	Importance of growing cover crop in soil and water conservation	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Integrated nutrient management	Integrated nutrient management for sustainable agriculture	-Do-	2	OFF	5	0	0	0	18	2	23	2	25

	production												
Micronutrient deficiency in crop	Importance of Fe and Zn containing fertilizer in managing leaf chlorosis in paddy	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Nutrient use efficiency	Importance of using neem and sulphur coated urea in improving N use efficiency	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Soil and water testing	Scientific cultivation of millets (Ragi, Bajara & China)	2 nd quarter	2	OFF	5	0	0	0	18	2	23	2	25
Rural Youth													
Production and use of organic inputs	Practical hand on soil testing using soil testing kit	3 rd quarter	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Vermicompost production and their marketing	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Vermicompost production and their marketing	4 th quarter	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Practical hand on soil testing using soil testing kit	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Extension functionaries													
Integrated nutrient management	Integrated nutrient management in pulses	3 rd quarter	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrient deficiency in crops	Fertilizer recommendation for wheat through crop manager (	-Do-	1	OFF	2	0	0	0	16	2	18	2	20

	webapp)												
Integrated nutrient management	Fertilizer recommendation for Maize through crop manager (webapp)	4 th quarter	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrient deficiency in crops	Role of micronutrient, their deficiency, symptoms and corrective measures for different crops.	-Do-	1	OFF	2	0	0	0	16	2	18	2	20

21. (A) Frontline demonstration to be conducted 2023 (Rabi)

Sl. No	Season	Crop	Variety	Area (ha)	No. of Demonstration
1	Rabi	Mushroom	Oyster, Button, Milky & Paddy strow	100 kg.	50
2	Rabi	Vegetable Seed	Nutrikrit	200 pkt.	100
3	Rabi	Cowpea	CP-6	2.5	20
4	Rabi	Planting materials (Vegetables)	Different varieties	40000 Nos	200
5	Rabi	Waste Decomposer			200
6	Rabi	Drone Application	Nano urea	10	25

(B) Cluster Frontline demonstration to be conducted 2023 (Rabi)

Crop	Variety	Session	Area (ha)	No. of Farmer
Mustad	RH-725	Rabi	70	175
Lentil	IPL-316	Rabi	24	60

22. On Farm Trail 2023

OFT: 01 (Home Science)

1.	Title of On Farm Trial	Assessment of Different Kinds of preservatives (Vinegar) for increasing Shelf life of mushroom pickles
2.	Problem diagnosed	Mushroom is very nutritive as it contains 30-35% protein but it is very perishable. Its shelf life can be increased through value added products ie pickles .In pickles, vinegar is used to increase the shelf life of pickles.
3.	Details of Technologies	Farmers Practice – No use of chemical preservative

	selected for Assessment	Technological option I – Use of sugarcane vinegar Technological option II – Use of jamun vinegar
4.	Source of Technology	CFTRI, Mysore
5.	Performance Indicator	Quarterly evaluation of color, test, texture and shelf life
6.	Replication	10
7.	Production system and thematic area	Value addition
8.	Constraints identified	
9.	Process of Farmer Participation	

OFT: 02 (Agricultural Engineering)

1.	Title of On Farm Trial	Assessment of Happy Seeder for wheat sowing under Crop Residue Management
2.	Problem diagnosed	Residue burning in the field after harvest of rice
3.	Details of Technologies selected for Assessment	Farmers Practice - Broadcasting in tilled condition Technological option I - Sowing of wheat by happy seeder incorporating the crop residue Technological option II - Removal of Crop Residue and sowing by ZTD
4.	Source of Technology	PAU Ludhiana, BISA
5.	Performance Indicator	Plant population, no of irrigation, economic parameter
6.	Replication	07
7.	Production system and thematic area	Rice – wheat cropping system
8.	Constraints identified	Time window for Rabi
9.	Process of Farmer Participation	

OFT: 03 (Agricultural Engineering)

1.	Title of On Farm Trial	Assessment of Multicrop Planter for sowing of pulses in different field condition
2.	Problem diagnosed	Pulses are generally sown by broadcasting of seeds resulting low yield
3.	Details of Technologies selected for Assessment	Farmers Practice - Broadcasting in tilled condition Technological option I - Sowing by Multicrop Planter (No Tilled Condition) Technological option II - Sowing with Multicrop Planter (Tilled condition)
4.	Source of Technology	PAU Ludhiana, BISA
5.	Performance Indicator	Plant Population(No of plants per m ²) , Economic Parameter
6.	Replication	07
7.	Production system and thematic area	Rice- Pulse
8.	Constraints identified	Unavailability of machines
9.	Process of Farmer Participation	

OFT: 04 (Soil science)

1.	Title	Integration of Fertilizer in Different form on Yield of Lentil
2.	Problem diagnosed	Injudicious use of chemical fertilizer
3.	Technological option	Farmers Practice : Seed treatment + RDF Technological option I : 50% of RDF +WS 18:18:18@5 gm/lit water (Single spray at pre flowering stage) Technological option II : Seed treatment with PSB + Rhizobium, 50% of RDF + WS 18:18:18 @5 gm/lit water (single spray at pre flowering stage)
4.	Source of Technology	BAU Sabour, Bhagalpur
5.	Replication	07
6.	Production system and thematic area:	Pulse fallow
7.	Performance of the technology with performance indicators	Soil data before and after, grain yield, no. of plant/m ² , 1000 grain weight, no. of pod/plant, stover yield & economics
8.	Constraints identified	
9.	Process of Farmer Participation	

23. Extension Activities

Nature of Extension Activity	No. of activities	Total		
		Male	Female	Total
Field Day	16	220	110	330
Kisan Mela	4	100	50	150
Kisan Ghosthi	11	100	50	150
Method Demonstrations	10	50	10	60
Group meetings	8	200	100	300
Lectures delivered as resource persons	5	100	50	150
Advisory Services	150	200	100	300
Scientific visit to farmers field	40	80	40	120
Diagnostic visits	300	200	50	250
Exposure visits	2	100	25	125
Soil health Camp	2	400	100	500
Soil test campaign	2	300	100	400
Farmers visit to KVK	500	800	300	1100
Swatchta Hi Sewa	15	450	154	604

24. Seed to be produced at KVK, farm 2023 (Rabi & Summer)

S. No.	Crop	Variety	Class	Area (ha)
1.	Gram	S. Chana-01	C/S	3.0
2.	Mustard	RH-725	C/S	1.5
3.	Wheat	DBW-187	T/L	5.0

4.	Lentil	IPL-316	C/S	3.5
5.	Moong	Shikha	C/S	2.0
