ACTION PLAN, 2023 KRISHI VIGYAN KENDRA, PATNA

GENERAL INFORMATION ABOUT THE KVK

Introduction:

Krishi Vigyan Kendra Agwanpur, Barh (Patna) was established on 1st August, 1992. It is one of the leading institutions for frontline extension education mandated to organize vocational trainings in agriculture and allied sector with emerging advances in agricultural research on regular basis. The centre is also dedicated to organize and conduct front line demonstration in consultation with the subject matter specialists for testing, refining and documenting technologies for developing region specific and sustainable land use system. The centre is working to promote and co-ordinate agricultural and allied activities in farming community and to bring development among the under privileged section in a systematic, productive, sustainable and self-regenerating manner.

Patna district in general and Tal land is especially popular for Rabi pulses like lentil & gram and oilseed like rapeseed & mustard. At the same time the upland of the district is quite suitable for kharif pulses (red gram) and oil seeds (castor and seasmum). Diara land of the Patna district is famous for the production of the almost all crops of Rabi and Summer season but it is flooded during kharif season. The flooded region is rich in organic matter percentage and the productivity of the area is much higher in comparison to upland without the use of organic or inorganic manure / fertilizer. In the past five years the production as well as productivity of these crops has been increased considerably. The main reason for these yield gaps are their relegation on uncared and marginal lands under rainfed situation and imbalance use for fertilizer. This centre is using the latest agro-technologies under the prevailing agro-eco system available to the farmers.

In India pulse covers 13.74% of gross cropped area and account for 6.7% of gross national production with the productivity of 565 kg/ha where as in Bihar it covers 4.75% of gross cropped area with the productivity of 714 kg/ha. Hence, there is large scope to promote the production and productivity of pulses and oilseed in Bihar especially in the Tal region of Patna district.

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Agwanpur, Barh, Patna- 803214	7549476543	patnakvk@gmail.com

1. Name of host organization : Bihar Agricultural University

Address	Telephone		E mail
	Office	FAX	
Bihar Agricultural University			
Sabour, Bhagalpur- 813210			

2. Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Permanent /Temporary	Category (SC/ST/OBC/ Others)
1	Senior Scientist & Head	Dr Kumari Sharda	Senior Scientist & Head	Permanent	Others
2	Subject Matter Specialist	Dr. Mrinal Verma	Subject Matter Specialist	Permanent	Others
3	Subject Matter Specialist	Dr. Bishnu Deo Singh	Subject Matter Specialist	Permanent	Others
4	Subject Matter Specialist	Sri Rajeev Kumar	Subject Matter Specialist	Permanent	Others
5	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-
6	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-
7	Subject Matter Specialist	Vacant	Subject Matter Specialist	-	-
8	Programme Assistant	Dr. Prakash Chandra Gupta	Programme Assistant (LabTech.)	Permanent	Others
9	Computer Programmer	Sri Akhilesh Kumar	Programme Assistant (Computer)	Permanent	BC
10	Farm Manager	Vacant	Farm Manager	-	-
11	Assistant	Sri Jayant Prasad	Assistant	Permanent	EBC
12	Stenographer	Vacant	-	-	-
13	Driver	Sri Kanhaiya kumar Rai	Driver	Permanent	BC
14	Driver	Vacant	-	-	-
15	Supporting Staff	Bachhan Sah	Messenger cum Peon	Permanent	Others
16	Supporting Staff	Vacant	-	-	-

3. Total land with KVK (in ha)

S. No.	Item	Area (ha)
1	Under Buildings	1.5
2.	Under Demonstration Units	0.3
3.	Under Crops	14.2
4.	Orchard/Agro-forestry	4.0
5.	Others with details	-
	Total	20.0

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4. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No.	Farming system/enterprise
1	Rice -wheat
2	Rice- wheat –Moong
3	Maize-oilseed-vegetable
4	Rice-Maize-Moong
5	Rice-Potato-Wheat
6	Rice-Potato-Onion
7	Rice-Potato-wheat –maize

8	Rice-Wheat-Mentha
9	Vegetable-oilseed-Moong
10	Vegetable-lentil-Maize
11	Vegetable – gram-Moong
12	Gram- and Lentil in Tal

5. About Patna District

DEMOGRAPHIC FEATURES			
Area (in ha.)	3,17,236		
No. of Sub-Division	06		
No. of Block	23		
No. of Gram Panchayat	321		
No. of Village	1395		
Total Population	5,835,465		
Population Density (per sq. km.)	1823		
SC Population	9,20,918 (15.8%)		
ST Population	16,350 (0.28)		
Sex Ratio	897		
Literacy rate	70.68%		

Source: As per 2011 Census

6. Description of Agro-climatic Zone & major agro ecological situations (based on soil and Topography)

S. No	Agro-climatic Zone	Characteristics	
1	ACZ-IIIB	Old alluvial sandy loam to clay, large tal and diara areas. Most of rainfall is	
		received in month of July to September bringing with it the problem of	
		recurrent flood. The highest gross irrigated area as percentage of gross	
		cropped area lies in zone III with 76.35% under assured means of irrigation.	
		Despite hight gross irrigated area at 76.35% in Zone III, it is low in cropping	
		intensity at only 135.11 % water stagnation for ling period during kharif	
		season hampers crop cultivation during Kharif.	

Source: Strategic research and extension plan of Patna district- Prepared by ATMA, Patna & National institute of Agricultural Extension Management Rajendra Nagar Hyderabad.

7. Agro ecological situation

S. No	Agro ecological	Area (ha)	Characteristics
	situation		
1	Tal	38885.00	Water logging more than 3 months & heavy textured soil
2	Diara	45599.80	Undulated light texture soil
3	Jalla	3508.00	Peculiar situation, water stagnation more than 2 months medium
			heavy soil, clay loam to clay in texture
4	Irrigated plain	67637.24	Well irrigated plain land & medium to heavy soil irrigated sone

			canal with most fertile land tract of the district
5	Rainfed plain	83403.85	Un irrigated plain land & medium to heavy soil

8. Soil types

S. No	Soil type	Characteristics	Area in ha
1	Clay to clay loam	Heavy soils Rap cracking in summer good water holding capacity and fertility status.	38855
2	Sandy loam, light texture soil	Undulated, high sand percentage low water holding capacity medium fertility status	45599
3	Medium to heavy soil	Peculiar situation, water stagnation more than 2 months medium heavy soil, good water holding capacity medium fertility status	51262

9. Area, Production and Productivity of major crops cultivated in the district

S. No	Сгор	Area (ha)	Production (q)	Productivity (q/ha)
1.	Wheat	95170.0	266190.5	2797.00
2.	Maize	8035.0	35434.0	4410.0
3	Potato	10185	238329.0	23400.0
4	Gram	28000.0	38428.0	1480.0
5	Lentil	46135.0	59514.0	1290.0
6	Pea	2636.0	3110.0	1180.0
7	Lethyrus	10000.0	10200.0	1020.0
8	Lentil	3820.0	2444.0	640.0
9	Barley	7170.00	5664.0	1933.0
10	Mustard/ Rai	7170.0	5664.0	790.0
11	Sunflower	70.0	78.0	1110.0
12	Linseed	3820.0	2444.0	640.0
13	Paddy	135000.0	4064.9	3171.0
14	Maize	10060	29599.5	2856.0
15	Arhar	2977.0	4555.0	1530.0
16	Moong	500.00	366.0	720.0
17	Urd	479.0	326.0	680.0
18	Til	100.00	24.0	450.0
19	Sunflower	24.0	52.0	1120.0
20	Ground Nut	20.0	23.0	1140.0
21	Castor	292.0	298.0	650.0

10. Details of operational area / villages

SI. No.	Name of Taluk	Name of the block	Name of the villages	Major crops & enterprises	Major problems identified (crop-wise)	Identified Thrust Areas
1	Barh	Barh	Puraibagi	Gram, Lathyrus,	Use of local variety, use of higher seed rate, imbalance fertilizer use and maximum use of insecticide &	Improved seed
					pesticide, no use of biofertilizer, Lack of irrigation facilities	olorertilizer

2	Belchi	Belchi	Tilhar	Vegetable, maize, lentil, oilseed, Poultry and Dairy	Imbalance use of fertilizer, no biofertilizer use and maximum use of pesticide and no vermicomposting	IPM, INM, Improved seed and Use of biofertilizer
3	Belchi	Belchi	Murtuzapur	Rice , wheat, Maize, Pulse, vegetable, Oil seed and dairy	Use of local variety, Imbalance use of fertilizer, use of higher seed rate and maximum use of pesticide	IPM, INM, Improved seed, Use of biofertilizer and rearing improved crossbreds
4	Belchi	Belchi	Moglani	Rice, wheat	Residue burning	Use of Happy Seeder, ZTD
5	Naubatpur	Naubatpur	Narayanpur	Vegetables, Cereals and Pulses	Higher dose of Insecticides and pesticides	Organic Farming
6	Bihta	Bihta	Bishunpura Kanchanpur Painal Mahamdpur Bajidpur	Cereal and pulses	Traditional farming	Use of machineries under CRA Program

11. Priority thrust areas

S. No	Thrust area
1.	Use of bio fertilizer and organic manure.
2.	Integrated Nutrient Management
3.	Integrated Pest Management.
4.	Medicinal & aromatic plants for high income return.
5.	Bee keeping and Mushroom production.
6.	Seed production of cereals oilseed, Pulses Vegetables and Spices.
7.	Ensuring availability of mushroom spawn round the year
8.	Farm Mechanization

12. Training program to be organized (January 2023 to December 2023) Home Science

Thematic	Title of	Qr.	Dura	Venue	Tent									
Area	Training	No.	tion	OFF/	ative	S	С	S	Т	Ot	her		Total	
				On	Date	Μ	F	Μ	F	Μ	F	М	F	Τ
Practicing F	armer													
Importance	Millets in	1 st	02	OFF										
of nutri	the food of	Qtr.												
garden.	pregnant &					0	5	0	0	0	15	0	20	20
	lactating													
	women.													
	Value													
Value	added	3 rd												
addition	products of	Qtr.	01	OFF		0	5	0	0	0	15	0	20	20
uduition	Ragi &	~												
	Sarghum.													
Minimizati	Importance	4 th	02	OFF		0	5	0	0	0	15	0	20	20
on of	of	Qtr.	02	Off		0	5	U	U	U	13	0	20	20

nutrient loss in processing Rural Youth	Nutrigarden												
Value addition	Value addition of Mushroom	1 st Qtr.	01	ON/O FF	5	0	0	0	15	0	20	0	20
Value addition	Value addition of Mango.	2 nd Qtr.	01	ON/O FF	5	0	0	0	15	0	20	0	20
Income Generation activities for woman	Value addition of Tomato and other vegetable.	3rd Qtr.	01	ON/O FF	0	5	0	0	0	15	0	20	20
Extension F	unctionaries												
Capacity building	Capacity building of Aanganwari workers related to nutria cereals (Millets)	3 rd Qtr.	01	ON/O FF	5	0	0	0	15	0	20	0	20

1. Agricultural Engineering

Thematic	Title of	Per	Dura	Venue	Tent			Pa	arti	cipan	ts/Tra	ainees	5	
Area	Training	iod	tion	OFF/	ative	S	С	S	Т	Ot	her		Total	
				On	Date	Μ	F	M	F	Μ	F	М	F	Т
Practicing F	armer													
Use of plastic in farming practices	Use of Drone for spraying nutrients and liquid inputs in field.	I st Qtr.	2	ON/ OFF		2	0	0	0	23	0	25	0	25
Farm Machinery	Advantages of Laser Land Leveler	- Do-	2	ON/ OFF		5	0	0	0	25	0	30	0	30
Farm Machinery	Different type of crop harvesting machines	- Do-	2	ON/ OFF		5	0	0	0	15	0	20	0	20

Other	Advantages of summer ploughing	II nd Qtr.	2	ON/ OFF	3	0	0	0	17	0	20	0	20
Other	Land preparation for growing millets.	- Do-	2	ON/ OFF	3	0	0	0	17	0	20	0	20
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 conservatio n 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 conservatio n Technique	Use of Happy seeder for residue managemen t	4 th Qtr.	1	ON/ OFF	4	0	0	0	16	0	20	0	20
Micro- irrigation	Water conservatio n techniques in irrigation	- Do-	1	ON/ OFF	3	0	0	0	17	0	20	0	20
Micro irrigation	Drip irrigation/sp rinkler irrigation	- Do-	1	ON/ OFF	3	0	0	0	17	0	20	0	20
Rural Youth		,,				r	1			1			
RCT	Agricultural Mechanizati on and advantages	1 st Qtr.	5	ON/ OFF	3	0	0	0	17	0	20	0	20

	of Farm Machinery													
Repair and maintenanc e of farm implements	Repair and maintenance of different farm machinery	2 nd Qtr.	5	ON/ OFF		3	0	0	0	17	0	20	0	20
Protected cultivation	Resource conservatio n techniques for vegetable crop.	3 rd Qtr.	2	ON/ OFF		2	0	0	0	18	0	20	0	20
Repair & maintenanc e of farm implements	Custom hiring of agricultural machinery	- Do-	2	ON/ OFF		5	0	0	0	15	0	20	0	20
Repair & maintenanc e farm implements	Developing skills to manufacture small hand tools/ use of small tools for drudgery reduction.	4 th Qua rter	2	ON/ OFF		3	0	0	0	17	0	20	0	20
	unctionaries	1	1	1	1	1		·	·	1	1	1		
Micro Irrigation	Adoption of Baler for Crop Residue Managemen t	1 nd Qua rter	1	ON/ OFF		0	0	0	0	15	0	15	0	15
Protected cultivation	Zero tillage technology and use of different machineries	-3 rd Qua rter	1	ON/ OFF		0	0	0	0	15	0	15	0	15
Care & maintenanc e of farm implements	Advantage of nutrient spray by drone in rai & wheat.	4 th Qua rter	1	ON/ OFF		3	0	0	0	17	0	20	0	20

2. Extension Education

				D		Taut]	Part	icip	ants/	Tra	ainee	S	
Thema tic	Tit	le of Training	Qrt. No.	Dur atio	Venue	Tent ative	S	С	S	Т	Oth r	e	T	ota	l
Area				n		Date	Μ	F	Μ	F	Μ	F	Μ	F	Т
Practicing	g Fai	rmer													
Group dynamics		Need and importance of farmers club/SHG	1 st Quarter	2	ON/OFF		3	0	2	0	10	5	15	5	2 0
Formation and manageme of SHGs		Formation and management of SHG	-do-	2	ON/OFF		3	0	2	0	10	5	15	5	2 0
Leadershij Developm	-	Importance of leadership in the development of Agriculture	-do-	2	ON/OFF		3	0	2	0	10	5	15	5	2 0
Mobilizati of social capital	ion	Effective utilization of social & natural resources.	-do-	2	ON/OFF		3	0	2	0	10	5	15	5	2 0
Entreprend al developme of Farmer youth	ent	Development of entrepreneural skill among Farmers	-do-	2	ON/OFF		3	0	2	0	10	5	15	5	2 0
Group dynamics		Need and importance of farmers club/SHG	2 nd Quarter	2	ON/OFF		3	0	2	0	10	5	15	5	2 0
Formation and manageme of SHGs	ent	Formation and management of SHG	-do-	2	ON/OF F		3	0	2	0	10	5	15	5	2 0
Leadershij Develop ment	p	Importance of leadership in the development of Agriculture	-do-	2	ON/OF F		3	0	2	0	10	5	15	5	2 0
Mobilizati of social capital	ion	Effective utilization of social & natural resources.	-do-	2	ON/OF F		3	0	2	0	10	5	15	5	2 0

Entrepreneuri al develop ment of Farmers / youth	Development of entrepreneural skill among Farmers	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Group dynamics	Need and importance of farmers club/SHG	3 rd Quarter	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Formation and manage ment of SHGs	Formation and management of SHG	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Leadership Development	Importance of leadership in the development of Agriculture	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Mobilization of social capital	Effective utilization of social & natural resources.	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Entrepreneuri al development of Farmers / youth	Development of entrepreneural skill among Farmers	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Group dynamics	Need and importance of farmers club/SHG	4 th Quarter	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Formation and management of SHGs	Formation and management of SHG	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Leadership Development	Importance of leadership in the development of Agriculture	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Mobilization of social capital	Effective utilization of social & natural resources.	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0

Entrepreneuri al development of Farmers / youth	Development of entrepreneural skill among Farmers	-do-	2	ON/OF F	3	0	2	0	10	5	15	5	2 0
Rural youth													
Vermin culture	Vermin composting	1 st Quarter	3	ON/OFF	3	0	2	0	15	5	20	5	2 5
Entrepreneurs hip	Role of Entrepreneur in Agriculture	-do-	3	ON/OFF	3	0	2	0	15	5	20	5	2 6
ICT	Use of ICT in Agriculture	2 nd Quarter	3	ON/OFF	3	0	2	0	15	5	20	5	2 7
Integrated farming System	Goatry	-do-	3	ON/OFF	3	0	2	0	15	5	20	5	2 5
Vermin culture	Vermin composting	3 rd Quarter	3	ON/OFF	3	0	2	0	15	5	20	5	2 5
Formation and manage ment of SHGs	Need and Importance of SHG / Farmers club	-do-	3	ON/OFF	3	0	2	0	15	5	20	5	2 5
Vermin culture	Vermin composting	4 th Quarter	3	ON/OFF	3	0	2	0	15	5	20	5	2 5
Integrated farming	Dairy farming	-do-	3	ON/OFF	3	0	2	0	15	5	20	5	2 5
Extension Fur	ictionaries		l.	•		1							
Formation and manage ment of SHGs	Need and Importance of SHG / Farmers club	1 st Quarter	2	ON	5	0	0	0	15	0	20	0	2 0
Group dynamics	Significance of Group Farming	1 st Quarter	2	OFF	5	0	0	0	15	0	20	0	2 0
Market led Extension	Use of ICT Tools for market access.	2 nd Quarter	2	OFF	5	0	0	0	15	0	20	0	2 0
Leadership Develop ment	Role & Importance of Leaders in managing Groups	2 nd Quarter	2	ON	5	0	0	0	15	0	20	0	2 0

Market led Extension	Use of ICT Tools for market access.	3 rd Quarter	2	ON	5	0	0	0	15	0	20	0	2 0
Vermin compost	Importance of vermicompost in organic farming	3 rd Quarter		OFF	5	0	0	0	15	0	20	0	2 0
Formation and management of SHGs	Capacity building of Extension Functionaries	4 th Quarter		OFF	5	0	0	0	15	0	20	0	2 0
Group dynamics	Significance of Group Farming	4 th Quarter	2	ON	5	0	0	0	15	0	20	0	2 0

3. Soil Science

			Dur	*7	Tentativ				P	artici	pan	ts		
Thematic area	Title of Training	Quarter	atio	Venu e	е	S	С	5	ST	Oth	er	r	Fot	al
aita	Training		n	Ľ	Date	Μ	F	N	F	Μ	F	Μ	F	Т
Practicing Fa	rmer													
Soil health and fertility management	Importance of balanced fertilizer application in onion production	1 st Quarter	2	OFF		4	1	0	0	18	2	22	3	25
Soil and water testing	Importance of soil and water testing for better crop production of millets	-Do-	2	OFF		4	1	0	0	18	2	22	3	25
Integrated nutrient management	Integrated nutrient management in paddy	-Do-	2	OFF		4	1	0	0	18	2	22	3	25
Production and use of organic input	Vermicompo st production techniques	-Do-	2	ON		4	1	0	0	18	2	22	3	25
Micronutrien t deficiency in crop	Importance of secondary and micronutrien t in crop production	-Do-	2	OFF		4	1	0	0	18	2	22	3	25

Soil and water testing	Importance of soil and water testing for better crop production	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Soil fertility management	Nutrient management in maize	2 nd Quarter	2	OFF	5	0	0	0	18	2	23	2	25
Soil and water conservation	Importance of BGA application in water conservation in paddy	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Integrated nutrient management	Integrated nutrient management in paddy	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Nutrient use efficiency	Importance of PSB application in enhancing P use efficiency	-Do-	2	OFF	4	1	0	0	18	2	22	3	25
Management of problematic soil	Reclamation of usar land	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Micronutrien t deficiency in crop	Role and deficiency symptoms of zinc in paddy	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
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		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	Reclamation of usar land	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
soil Micronutrien t 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 production	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Micronutrien t deficiency in crop	Importance of Fe and Zn containing fertilizer in managing leaf chlorosis in paddy	-Do-	2	OFF	5	0		0	18	2	23	2	25
Nutrient use efficiency	Importance of using neem and sulphur coated urea in improving	-Do-	2	OFF	5	0	0	0	18	2	23	2	25

	N use efficiency												
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													
Soil health and fertility management	Practical hand on soil testing using soil testing kit	1 st quarter	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Blue green algae production technique	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Vermicompo st production and their marketing	2 nd quarter	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Blue green algae production technique	-Do-	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	3 rd quarter	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Vermicompo st production and their marketing	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs	Vermicompo st production and their marketing	4 th quarter	3	ON	5	0	0	0	16	4	21	4	25
Production and use of organic inputs Extension fun	Practical hand on soil testing using soil testing kit	-Do-	3	ON	5	0	0	0	16	4	21	4	25

Soil health and fertility management	Fertilizer recommenda tion for rice through crop manager (webapp)	1 st quarter	1	OFF	2	0	0	0	16	2	18	2	20
Integrated nutrient management	Integrated nutrient management in Paddy	-Do-	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrien t deficiency in crops	Fertilizer recommenda tion for rice through crop manager (webapp)	2 nd quarter	1	ON	2	0	0	0	16	2	18	2	20
Integrated nutrient management	Role of green manuring in soil fertility management	-Do-	1	OFF	2	0	0	0	16	2	18	2	20
Integrated nutrient management	Integrated nutrient management in pulses	3 rd quarter	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrien t deficiency in crops	Fertilizer recommenda tion for wheat through crop manager (webapp)	-Do-	1	OFF	2	0	0	0	16	2	18	2	20
Integrated nutrient management	Fertilizer recommenda tion for Maize through crop manager (webapp)	4 th quarter	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrien t deficiency in crops	Role of micronutrien t, their deficiency, symptoms and corrective measures for different crops.	-Do-	1	OFF	2	0	0	0	16	2	18	2	20

Sl. No	Season	Сгор	Variety	Area in ha.	No. of Demonstration
1	Kharif	Paddy	R. Sweta	10	25
2		Cheena	Local	01	05
3		Madua		01	40
4		Turmeric	R. Sonia	01	40
5		Fodder crop	Napier / Berseem	02	40
6		Mushroom	Puwal Mushroom	10	10
7	Rabi				
8		Mushroom	Oyster, Button, Milky	100 kg.	20
9		Vegetable Seed	Nutrigarden	100 pkt.	100
10		Onion	Onion seed	2.0	32
11		Okra	Okra Seed	1.0	40
12		Sponge Gourd	Sponge Gourd	1.0	40
13		Bitter gourd	Bitter gourd	1.0	40
14		Pumpkin	Pumpkin	1.0	40
15		French Bean	French Bean	1.0	16
16		Beetroot	Beetroot	1.0	40
17		Pashu Chocklet	Pashu Chocklet	100	100
18		Mineral mixture	Mineral mixture	50	50
19		Sodium Benzoate		500 gm	25 farmers
20		Citric Acide		500 gm	25 farmers
21		Potassium meta		500 gm	25 farmers
		bisulphate			

13. Frontline demonstration to be conducted* 2023

	P	roposed		Parameter	Cost of Cult	ivation (Rs.)	No. of	farme	rs / de	emons	tration	ı			
SI.	Crop & A	rea	Technology	(Data) in				SC		ST		Othe	er	Tot	al	
No.	Enterprises U	ha)/ Jnit No.)	package for demonstration	relation to technology demonstrated	Name of Inputs	Demo	Local	М	F	М	F	М	F	М	F	Т

Extension and Training activities under FLD:

A	ctivity	Title of	No.	Clientele	Duration	Venue	No. of Participants								
		Activity				On/Off	S	С		ST	Ot	her	To	otal	
							Μ	F	Μ	F	Μ	F	Μ	F	Т

* Repeat the above tables and information in Point no. 4 for EACH FLD being proposed.

a) Seed and planting material production by utilization of instructional farm (Crops / Enterprises)

Name of the	·	Period	Area (ha.)	Details of Pro	duction			
Crop / Enterprise	Туре	From to		Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy					160			
Gram					45			
Wheat					125			
Mustard					25			
Linseed					30			
Mango					1000 plants			
Guava					1000 plants			
Citrus					1000 plants			
Ornamental					2500 plants			

b) Village Seed Production Programme

Name of	Variety /	Period	Area	No. of			Details of P	roduction	
the Crop / Enterprise	Туре	From to	(ha.)	farmers	Type of	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

14. Extension Activities

Nature of Futureian Astivity			Total	
Nature of Extension Activity	No. of activities	Male	Female	Total
Field Day	14	220	110	330
KisanMela	03	100	50	150
KisanGhosthi	09	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	125	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 campaigns	2	300	100	400
Scientific visit to farmers field	35	781	241	1022
Farmers visit to KVK	1000	800	300	1100
Swatchta Hi Sewa	15	450	154	604
Awareness camp on Millets	12	100	200	300
Awareness programme on Natural Framing	25	800	450	1250

15. Revolving Fund (in Rs.)

Opening balance of 2022-2023 (As on 01.04.2023)	Amount proposed to be invested during 2022-23	Expected Return

16. Expected fund from other sources and its proposed utilization

Project	Source	Amount to be received (Rs. in lakh)
BSDM/RPL	Bihar Govt.	1250000

17. On-farm trials to be conducted* ON FARM TRIAL (2023-24)

OFT: 01 (Home Science)

1	Title of On Farm Trial	Aggagement of propagation matheds of Corrections for man	
1	Title of On Farm Trial	Assessment of preparation methods of Carrot jam for more	
		shelf life, enhancement of nutrition & income.	
2	Problem diagnosed	As there in bulk production of carrot in this area but the	
	5	farmers are not using value added products of carrot and it is	
		vested in the season.	
3	Details of Technologies selected for	Farmers Practice-	
5	Assessment		
	Assessment	Local people consume fresh carrot as such as vegetables or	
		juice.	
		Tech Option I- Preparation of Carrot Jam	
		Formulation - Ingredients Carrot- 1.0kg, Sugar-1.0kg,	
		Water-100ml, Citric acid -6.0g, Pectin powder-10g, Sodium	
		Benzoate- 1.0g	
		Technology Option II- Preparation of Carrot Jam with	
		essence.	
		Formulation - Ingredients Carrot- 1.0kg, Sugar-1.0kg,	
		Water-200ml, Citric acid -6.0g, Pectin powder-10g, Lemon	
		essence-5ml, Sodium Benzoate- 1.0g	
4	Source of Technology	CFTRI, Mysore	
5	Performance Indicator	Test, texture, colour and overall acceptabliling	
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 direct sowing of Rice by different methods	
2	Problem diagnosed	Post-Harvest losses in storage.	
3	Details of Technologies selected for	Farmers Practice- Transplanting	
	Assessment	Tech Option I- DSR by Tractor operated Zero Till Drill	
		Technology Option II- Sowing by DSR Machine(Inclined	
		Plate Planter)	
4	Source of Technology	BISA, BAU	
5	Performance Indicator	Plant Height. No of Tillers, Yield, BC Ratio	

6	Replication	10
7	Production system and thematic area	Wheat-Rice
8	Constraints identified	Irregular climatic condition affecting the productivity
9	Process of Farmer Participation	

OFT: 03 (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	Farmers Practice- Broadcasting of wheat in the field	
	Assessment	Tech Option I- Sowing of wheat by Happy Seeder	
		incorporating the crop residue	
		Technology Option II- Removal of crop residue and sowing	
		by Zero Till drill	
4	Source of Technology	BAU Sabour	
5	Performance Indicator	Soil status, no of plant/m2, no of irrigation, yield and BC	
		Ratio	
6	Replication	10	
7	Production system and thematic area	Rice- Wheat	
8	Constraints identified	Lesser time window for timely sowing of wheat	
9	Process of Farmer Participation		

OFT: 04 (Extension Education)

L. OT (Extension Education)		
Title	Assessing the Awareness level of Soil Health Card (SHC) in	
	Paddy Cultivation	
Problem diagnosed	Farmers awareness about benefits of Soil Health Card	
Details of Technology	Farmers Practice – Farmers having no SHC and not applying recommended dose of fertilizers.	
	Tech Option I - Recommendation of fertilizer application	
	through training/ group meeting.	
	Tech Option II - Farmers having Soil Health Card and follow	
	the Recommendation.	
Source of technology	BAU, Sabour, Bhagalpur	
No. of Farmers	36	
Production system and Thematic Area	Capacity Building	
Constraints identified and Feedback of		
research		
Performance of Technology	i. Level of Awareness (%),	
Performance Indicator	ii. Yield (qt./ha)	
	iii. BC Ratio	
Process of Farmers Participation &		
their reaction		
	Title Problem diagnosed Details of Technology Source of technology No. of Farmers Production system and Thematic Area Constraints identified and Feedback of research Performance of Technology Performance Indicator Process of Farmers Participation &	

OFT: 05 (Extension Education)

1	Title	Effectiveness of Community Radio Programme on Awareness
		(knowledge) related to Nutritional and health wellbeing of
		Radio Listener
2	Problem diagnosed	Poor awareness related to Nutrition and health being among
		Radio Listener
3	Details of Technology	Tech Option I - Nutrition and health Awareness of Farmers

		not connected with C.R. Tech Option II - Nutrition and health Awareness of Farmers connected with C.R. Tech Option III - Nutrition and health Awareness of Farmers through SD Card
4	Source of technology	C.R. Compendium
5	No. of Farmers	36 Radio listener & Non Listener
6	Production system and Thematic Area	Capacity Building
7	Performance of Technology with performance indicator	 i. Awareness level towards Nutrition, ii. Awareness level in health wellbeing, iii.Consumption pattern in food habit.
8	Final Recommendation for Micro level Situation	
9	Process of Farmers Participation and their reaction	

OFT: 06 (Extension Education)

1	Title	Assessment of yield of different varieties of Soyabean in patna
1	1 me	5 5 1
		district.
2	Problem diagnosed	Lack of awareness among farmers regarding benefits of
		cultivation of soyabean
3	Details of Technology	Farmers Practices – Local variety
		Tech Option II – Soyabean variety - Anamika
		Tech Option III – Soyabean variety – JS-335
4	Source of technology	IARI, New Delhi
5	No. of Farmers	05
6	Production system and Thematic Area	Crop Diversification
7	Performance of Technology with	Plant population/m2, No. of pod/plant, 1000 seed weight,
	performance indicator	yield, return, grain yield, B:C ratio, Soil test report.
8	Final Recommendation for Micro level	
	Situation	
9	Process of Farmers Participation and	
	their reaction	

OFT: 07 (Soil science)

1	Title	Evaluation of different nutrient management options in Maize
		for higher productivity
2	Problem diagnosed	Limited availability of straight fertilizer leads to yield and
		income loss to farmers in maize production
3	Technological option	Farmers Practice- 150:40:25:: N:P ₂ O ₅ :K ₂ O Kg/ha
		Technological Option I:- Recommended dose of fertilizer i.e
		100:60:40 Kg N:P2O5:K2O/ha
		Technological Option II:- Nutrient application through
		foliar spray as per following schedule
		a. Foliar spray of Nano urea @500 ml/acre and Nano
		DAP@250ml/acre at 10 days after sowing
		b. Foliar spray of Nano urea@500ml/are and Nano
		DAP@250ml/acre at 30 days after sowing
		c. Foliar spray of Nano urea@500ml/acre along with

		NPK 19:19:19 and NPK::0:0:50@ 1.25Kg/acre at just
		before flowering
4	Source of Technology	BAU, Sabour
5	Replication	07
6	Production system and thematic area:	Maize- Wheat production system
7	Performance of the technology with	Plant height(cm), No. of cob/plant, No. of grain/cob, yieldq/ha
	performance indicators	and pre and post soil nutrient status
8	Constraints identified	Seed, herbicide (Atrazine), pesticide(Profenophos),
		fertilizer(urea, DAP and Potash), Nano urea, Nano DAP, NPK
		19:19:19, NPK 0:0:50
9	Process of Farmer Participation	

18. List of Projects to be implemented by funding from other sources (other than KVK fund)

Sl. No.	Name of the project	Fund expected (Rs.)
1	ATMA Patna	3.0 Lakh
2	SMART New Delhi	1.0 Lakh
3	BAU, Sabour (Video Confe.)	5.0 Lakh
4	BAU Sabour (IFS)	3.0 Lakh

19. No. of success stories proposed to be developed with their tentative titles - 04

20. Scientific Advisory Committee

Date of SAC meeting held during 2021-22	Proposed date during 2022-23
26.08.2021	24.08.2022

21. Soil and water testing

Details	No. of Samples	No. of Farmers								No. of Villages	No. of SHC distributed	
	Sampies	SC		ST		Other		Total			v mages	uistributtu
		M	F	M	F	M	F	M	F	T		
Soil Samples	500							355	145	500	25	500
Water Samples	-											

22. Fund requirement and expenditure (Rs.)*

Item	Fund required for 2023-24 (Lakh)
Pay & Allowances	135
ТА	2.0
Contingency	15

HRD	0.50
NR	15

* Any additional requirement may be suitably justified.

23. Every KVK should bring a brief write-up supported by quality photographs about the technology having wide acceptability among the farming community of the district with factual data