ACTION PLAN, 2021

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 agroeco 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

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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 Brajesh Patel	Subject Matter Specialist	Permanent	BC
5	Subject Matter Specialist	Sri Rajeev Kumar	Subject Matter Specialist	Permanent	Others
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

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	Crop	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

Sl. 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		Use of local variety, use of higher seed rate, imbalance	
					fertilizer use and maximum	-
				and dairy	use of insecticide & pesticide, no use of	biofertilizer
					biofertilizer, Lack of	
					irrigation facilities	

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 2021 to December 2021) Home Science

Thema	Title of Training	Qr.	Durati	Venue	Tentat			Par	ticip	ant	s/Tra	ine	es	
tic		No.	on	OFF/O	ive	S	C	S	T	Oı	her		Tota	.1
Area				n Campu s	Date	M	F	M	F	M	F	M	F	T
Practicir	ıg Farmer			3										
Women and child care	Care of pregnant & lactating women.	3 rd Qua rter	02	OFF		0	5	0	0	0	15	0	2 0	20
Value additio n	Different recipes of mushroom	3 rd Qua rter	01	OFF		0	5	0	0	0	15	0	0	20
Minimi zation	Different cooking methods	4 th Qua	02	OFF		0	5	0	0	0	15	0	2 0	20

of		rter											
nutrient													
less in													
process													
ing													
Rural Yo	outh												
Value	Value addition	1 st	01	ON/OF	5	0	0	0	15	0	20	0	20
additio	Mushroom	Qu		F									
n		arte											
		r											
Value	Value addition	1 st	01	ON/OF	5	0	0	0	15	0	20	0	20
additio	Mango.	Qu		F									
n		arte											
		r											
Income	Embroidery for	3rd	01	ON/OF	0	5	0	0	0	1	0	2	20
Generat	income generation	Qu		F						5		0	
ion		arte											
activitie		r											
s for													
woman													
Extensio	n Functionaries												
Capacit	Capacity building	3 rd	01	ON/OF	5	0	0	0	15	0	20	0	20
у	of Aanganwari	Qu		F									
buildin	workers	arte											
g		r											

1. Agricultural Engineering

Thema	Title of Training	Peri	Durati	Venue	Tentat	Participants/Trainees								
tic		od	on	OFF/O	ive	S	C	S	T	Oth	e		[ota]	
Area				n	Date					r				
				Campu		M	F	M	F	M	F	M	F	T
D				S										
Practicin	ng Farmer													
Use of	Use f poly house/	Ist	2	ON/OF		2	0	0	0	23	0	25	0	25
plastic	poly tunnel for	qua		F										
in	seedling raising	rter												
farming		(Jan												
practice		-												
S		Mar												
		ch)												
do	Plastic mulching	-Do-	2	ON/OF		3	0	0	0	27	0	30	0	30
	in vegetable crops			F										
Micro-	Use of drip	-Do-	2	ON/OF		5	0	0	0	15	0	20	0	20
irrigatio	irrigation in			F										
n	vegetable													

	production												
Other	Advantages of summer ploughing	IInd Qtr(Apr - Jun	2	ON/OF F	3	0	0	0	17	0	20	0	20
Other	Mechanization of harvesting and threshing of wheat	e) -Do-	2	ON/OF F	3	0	0	0	17	0	20	0	20
Other	Use of drum seeder for direct seeding of rice.	3rd Qtr(July - Sept	1	ON/OF F	3	0	0	0	17	0	20	0	20
Use of plastic in farming practice s	Direct seeding of rice by planter	-Do-	1	ON/OF F	5	0	0	0	15	0	20	0	20
Resour ce conserv ation Techni que	Use and advantages of Self Propelled rice transplanter	-Do-	2	ON/OFF	5	0	0	0	15	0	20	0	20
Other	Use of rotavator for land preparation.	-Do-	1	ON/OFF	3	0	0	0	17	0	20	0	20
Resour ce conserv ation Techni que	Use of Happy seeder for residue management	4 th Qua rter (Oct- Dec)	1	ON/OFF	4	0	0	0	16	0	20	0	20
Micro- irrigatio n	Water conservation techniques in irrigation	-Do-	1	ON/OFF	3	0	0	0	17	0	20	0	20
Micro irrigatio n	Drip irrigation/sprinkler irrigation	-Do-	1	ON/OFF	3	0	0	0	17	0	20	0	20
Rural Yo					 								
RCT	Mechanization of farm implements	1 st Qua rter	5	ON/OFF	3	0	0	0	17	0	20	0	20

Repair of mainten ance of farm implem ents	Repair and maintenance of different farm machinery	2 nd Qua rter	5	ON/OFF	3	0	0	0	17	0	20	0	20
Protect ed cultivat ion	Resource conservation techniques for vegetable crop.	3 rd Qua rter	2	ON/OFF	2	0	0	0	18	0	20	0	20
Repair & mainten ance farm implem ents	Custom hiring of agricultural machinery	- Do-	2	ON/OFF	5	0	0	0	15	0	20	0	20
Repair & mainten ance farm implem ents	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
Micro Irrigati on	Adoption of Drip/ Sprinkler system by farmers	1 nd Qua rter	1	ON/OFF	0	0	0	0	15	0	15	0	15
Protect ed cultivat ion	Zero tillage technology	-3 rd Qua rter	1	ON/OFF	0	0	0	0	15	0	15	0	15
Care & mainten ance of farm implem ents	Technology of Rotavator operation	4 th Qua rter	1	ON/OFF	3	0	0	0	17	0	20	0	20

2. Extension Education

						Participants/Trainees									
Thema		Qrt			Tentati					Oth	ıe				
tic			Durati		ve		<u>C</u>	S		r			Γota	1	
Area	Title of Training	No.	on	Venue	Date	M	F	M	F	M	F	M	F	Т	
	g Farmer	1 et			I		ı							1	
Group	Need and	1 st													
dynami cs	importance of farmers club/SHG	Qu arte	2	ON/OFF		3	0	2	0	10	5	15	5	20	
CS	Tarmers Club/SITO	r													
Formati	Formation and	-													
on and	management of	do-													
manage	SHG		2	ON/OFF		3	0	2	0	10	5	15	5	20	
ment of															
SHGs	T														
Leaders	Importance of	- da													
hip Develo	leadership in the development of	do-	2	ON/OFF		3	0	2	0	10	5	15	5	20	
pment	Agriculture		_	"											
_															
Mobiliz	Effective	-													
ation of social	utilization of social & natural	do-	2	ON/OFF		3	0	2	0	10	5	15	5	20	
capital	resources.														
Entrepr	Development of	_													
eneurial	entrepreneurship	do-													
develop	skill among														
ment of	Farmers		2	ON/OFF		3	0	2	0	10	5	15	5	20	
Farmer															
s/															
youth	NT 1 1	and													
Group	Need and	2 nd													
dynami cs	importance of farmers club/SHG	Qu arte	2	ON/OFF		3	0	2	0	10	5	15	5	20	
CS	Tarmers Club/STIG	r													
Formati	Formation and	-									H				
on and	management of	do-													
manage	SHG		2	ON/OFF		3	0	2	0	10	5	15	5	20	
ment of															
SHGs	Town automore C														
Leaders	Importance of leadership in the	do-													
hip Develo	development of	u0-	2	ON/OFF		3	0	2	0	10	5	15	5	20	
pment	Agriculture														
Mobiliz	Effective	_									H				
ation of	utilization of social	do-													
social	& natural		2	ON/OFF		3	0	2	0	10	5	15	5	20	
capital	resources.														

Entrepr eneurial develop ment of Farmer s / youth	Development of entrepreneurship skill among Farmers	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Group dynami cs	Need and importance of farmers club/SHG	3 rd Qu arte r	2	ON/OFF	3	0	2	0	10	5	15	5	20
Formati on and manage ment of SHGs	Formation and management of SHG	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Leaders hip Develo pment	Importance of leadership in the development of Agriculture	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Mobiliz ation of social capital	Effective utilization of social & natural resources.	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Entrepr eneurial develop ment of Farmer s / youth	Development of entrepreneurship skill among Farmers	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Group dynami cs	Need and importance of farmers club/SHG	4 th Qu arte r	2	ON/OFF	3	0	2	0	10	5	15	5	20
Formati on and manage ment of SHGs	Formation and management of SHG	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Leaders hip Develo pment	Importance of leadership in the development of Agriculture	- do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Mobiliz ation of social capital	Effective utilization of social & natural resources.	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20

eneurial develop	Development of entrepreneurship skill among Farmers	do-	2	ON/OFF	3	0	2	0	10	5	15	5	20
Rural you	ıth								I				
Vermin culture	Vermin composting	1st Qu arte r	3	ON/OFF	3	0	2	0	15	5	20	5	25
Enterpre neurship	Role of Enterpreneur in Agriculture	do-	3	ON/OFF	3	0	2	0	15	5	20	5	26
ICT	Use of ICT in Agriculture	2 nd Qu arte r	3	ON/OFF	3	0	2	0	15	5	20	5	27
Integrate d farming System	Goatery	do-	3	ON/OFF	3	0	2	0	15	5	20	5	25
Vermin culture	Vermin composting	3 rd Qu arte r	3	ON/OFF	3	0	2	0	15	5	20	5	25
Formatio n and manage ment of SHGs	Need and Importance of SHG / Farmers club	- do-	3	ON/OFF	3	0	2	0	15	5	20	5	25
Vermin culture	Vermin composting	4 th Qu arte r	3	ON/OFF	3	0	2	0	15	5	20	5	25
Integrate d farming	Dairy farming	do-	3	ON/OFF	3	0	2	0	15	5	20	5	25
	Functionaries												
Formatio n and manage ment of SHGs	Need and Importance of SHG / Farmers club	1 st Quar ter	2	ON	5	0	0	0	15	0	20	0	20
Group dynamic s	Significance of Group Farming	1 st Quar ter	2	OFF	5	0	0	0	15	0	20	0	20

Market led Extensio n	Use of ICT Tools for market access.	2 nd Quar ter	2	OFF	5	0	0	0	15	0	20	0	20
Leadersh ip Develop ment	Role & Importance of Leaders in managing Groups	2 nd Quar ter	2	ON	5	0	0	0	15	0	20	0	20
Market led Extensio n	Use of ICT Tools for market access.	3 rd Quar ter	2	ON	5	0	0	0	15	0	20	0	20
Verminc ompost	Importance of vermicompost in organic farming	3 rd Quar ter		OFF	5	0	0	0	15	0	20	0	20
Formatio n and manage ment of SHGs	Capacity building of Extension Functionaries	4 th Quar ter		OFF	5	0	0	0	15	0	20	0	20
Group dynamic s	Significance of Group Farming	4 th Quar ter	2	ON	5	0	0	0	15	0	20	0	20

3. Plant Protection

Thema	Title of	Quarte	Durat		Tentati				Pa	rticip	an	ts		
tic area	Training	r	ion		ve Date	SC				Oth r	e	7	Γota	ıl
				Venue		M	F	M	F	M	F	M	F	T
Practicin	ng Farmer													
IPM	Management of diamond back moth in cauliflower	1 th Quarter	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of major disease of mango	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of early and late blight of potato	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IPM	Management of aphids in oilseed crops	-Do-	2	OFF		2	1	0	0	15	2	17	3	20
IDM	Management of leaf curl disease of tomato	-Do-	2	OFF		2	1	0	0	15	2	17	3	20

IDM	Management of mal formation in mango	-Do-	2	OFF	2	1	0		15	2	17	3	20
								0					
IPM	Management of stem borer in maize	2 nd Quarter	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Integrated disease management in vegetable crops	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid e	Importance of NPV in controlling fruit and shoot borer of Brinjal	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Management of stem borer in paddy	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Management of bacterial leaf blight in paddy	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Management of damping off in nursery of vegetable crop	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Management of cut worm in lentil and gram	3 rd Quarter	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Management of seed and soil born disease of lentil	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid e	Importance of pheromone trap in managing fruit and shoot borer in brinjal	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Management of white fly in solanaceae vegetable	-Do-	2	OFF	2	1	0	0	15	2	17	3	20

IDM	Management of rust in lentil	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid	Importance of NPV in controlling pod borer of gram	-Do-	2	OFF	2	1	0		15	2	17	3	20
e IPM	Importance of deep ploughing in pest management	4 th Quarter	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Management of Yellow vein mosaic in Bhindi	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid e	Importance of NPV in controlling fruit and shoot borer of Brinjal	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Integrated pest management in maize	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Integrated disease management in onion	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid	Preparation of neem Kernel extract for controlling insect pest	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Rural yo	uth							U					
Crop diversif ication	Button mushroom cultivation	1 st Quarter	3	ON	2	1	0	0	15	2	17	3	20
Crop diversif ication	Button mushroom cultivation	-Do-	3	ON	2	1	0	0	15	2	17	3	20

Crop	Oyster	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif ication	mushroom													
Crop	cultivation Milky	2 nd	3	ON		2	1	0	0	15	2	17	3	20
diversif	Mushroom	Quarter	3	ON		2	1	U		13		1 /)	20
ication	cultivation	Quarter							0					
Crop	Milky	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif	Mushroom		3			_	1			13	_	1 /		20
ication	cultivation								0					
Crop	Paddy straw	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif	mushroom		J			-	•				-	1,		
ication	cultivation								0					
Crop	Oyster	3 rd	3	ON		2	1	0		15	2	17	3	20
diversif	mushroom	Quarter												
ication	cultivation								0					
Crop	Button	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif	mushroom													
ication	cultivation								0					
Crop	Oyster	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif	mushroom													
ication	cultivation								0					
Crop	Milky	4th	3	ON		2	1	0		15	2	17	3	20
diversif	Mushroom	Quarter												
ication	cultivation	Q							0					
Crop	Milky	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif	Mushroom													
ication	cultivation					<u> </u>		_	0				_	
Crop	Paddy straw	-Do-	3	ON		2	1	0		15	2	17	3	20
diversif	mushroom								_					
ication	cultivation								0					
Extensio	n functionaries													
IPM	Management of	1 st	2	OFF		2	1	0		15	2	17	3	20
	early and late	quarter												
	blight of potato								0					
IDM	Management of	-Do-	2	OFF		2	1	0		15	2	17	3	20
	nematode													
	problem in soil								0					
IDM	Management of	-Do-	2	OFF		2	1	0		15	2	17	3	20
	anthracnose and													
	die back disease													
	in mango								0					
IPM	Management of	2 nd	2	OFF		2	1	0		15	2	17	3	20
	major insect	quarter												
	pest of													
ID) (vegetable crops			OFF		-	1	_	0	1.7		1.7	-	20
IDM	Management of	-Do-	2	OFF		2	1	0		15	2	17	3	20
	major disease of								_					
	paddy				1				0					

IDM	Management of collar rot disease of papaya	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Management of major insect pest of pulse crops	3 rd quarter	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Management of major disease of pulse and oilseed crop	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Importance of seed treatment in controlling major disease of wheat	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
IPM	Management of major insect pest of maize	4 th quarter	2	OFF	2	1	0	0	15	2	17	3	20
IDM	Management of mosaic disease in moong	-Do-	2	OFF	2	1	0	0	15	2	17	3	20
Product ion of bio control agent and bio pesticid e	Importance of bio control agent in managing insect pest of Paddy	-Do-	2	OFF	2	1	0	0	15	2	17	3	20

4. Soil Science

T1 4:	Tr'Al C	0 4	D 4:	X 7	Tentativ				Pa	artici	pan	ts		
Thematic area	Title of Training	Quarte r	Duratio n	Venu e	е	S	С	S	ST	Oth	er	-	Γot	al
area	Training	1	11		Date	M	F	Ν	F	M	F	M	F	T
Practicing F	armer													
Soil health and fertility managemen t	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	-Do-	2	OFF		4	1	0	0	18	2	22	3	25

	better crop production												
Integrated nutrient managemen t	Integrated nutrient management in paddy	-Do-	2	OFF	4	1	0	0	18	2	22	3	25
Production and use of organic input	Vermicompos t production techniques	-Do-	2	ON	4	1	0	0	18	2	22	3	25
Micronutrie nt deficiency in crop	Importance of secondary and micronutrient 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 managemen t	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 managemen t	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
Manageme nt of problematic soil	Reclamation of usar land	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Micronutrie nt 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 managemen t	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 managemen t	Integrated nutrient management in pulses	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Manageme nt of problematic soil	Reclamation of usar land	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
Micronutrie nt 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 managemen t	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 managemen t	Integrated nutrient management for sustainable agriculture production	-Do-	2	OFF	5	0	0		18	2	23	2	25
Micronutrie nt deficiency in crop	Importance of Fe and Zn containing fertilizer in managing leaf chlorosis in	-Do-	2	OFF	5	0	0	0	18	2	23	2	25

Importance of using neem	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
coated urea in improving N use efficiency												
Importance of soil and water testing for better crop production	-Do-	2	OFF	5	0	0	0	18	2	23	2	25
•	·		<u> </u>		•							
Practical hand on soil testing using soil testing kit	1 st quarter	3	ON	5	0	0	0	16	4	21	4	25
Blue green algae production	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Vermicompos t production and their marketing	2 nd quarter	3	ON	5	0	0	0	16	4	21	4	25
Blue green algae production technique	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Practical hand on soil testing using soil testing kit	3 rd quarter	3	ON	5	0	0	0	16	4	21	4	25
Vermicompos t production and their marketing	-Do-	3	ON	5	0	0	0	16	4	21	4	25
Vermicompos t production and their marketing	4 th quarter	3	ON	5	0	0	0	16	4	21	4	25
Practical hand on soil testing using soil	-Do-	3	ON	5	0	0	0	16	4	21	4	25
	using neem and sulphur coated urea in improving N use efficiency Importance of soil and water testing for better crop production Practical hand on soil testing using soil testing kit Blue green algae production technique Vermicompos t production and their marketing Blue green algae production technique Vermicompos t production and their marketing Blue green algae production technique Practical hand on soil testing using soil testing kit Vermicompos t production and their marketing Vermicompos t production and their marketing Vermicompos t production and their marketing Practical hand on soil testing	using neem and sulphur coated urea in improving N use efficiency Importance of soil and water testing for better crop production Practical hand on soil testing using soil testing kit Blue green algae production Vermicompos t production and their marketing Blue green algae production technique Practical hand on soil testing using soil testing wit Brace In the series of t	using neem and sulphur coated urea in improving N use efficiency Importance of soil and water testing for better crop production Practical hand on soil testing using soil testing kit Blue green algae production Vermicompos t production and their marketing Blue green algae production technique Practical hand on soil testing using soil testing kit Vermicompos t production technique Practical hand on soil testing using soil testing kit Vermicompos t production and their marketing Practical hand on soil testing Practical hand on soil testing	using neem and sulphur coated urea in improving N use efficiency Importance of soil and water testing for better crop production Practical hand on soil testing using soil testing kit Blue green algae production Vermicompos t production technique Practical hand on soil testing using soil testing water and their marketing Blue green algae production technique Practical hand on soil testing using soil testing kit Vermicompos t production technique Practical hand on soil 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5 0 0 0 16 4 21 4 and on soil testing using soil testing the testing kit Vermicompos -Do- 3 ON 5 0 0 0 16 4 21 4 and on soil testing using soil testing using soil testing and their marketing Practical hand on soil testing uarter using soil testing and their marketing Practical hand on soil testing uarter and their marketing Practical hand on soil testing uarter and their marketing Practical hand on soil testing on the solution and their marketing Practical hand on soil testing using soil testing the solution and their marketing Practical hand on soil testing the solution and their marketing Practical hand on soil testing the solution and their marketing Practical hand on soil testing the solution and their marketing

Soil health and fertility managemen t	Fertilizer recommendati on for rice through crop manager (webapp)	1 st quarter	1	OFF	2	0	0	0	16	2	18	2	20
Integrated nutrient managemen t	Integrated nutrient management in Paddy	-Do-	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrie nt deficiency in crops	Fertilizer recommendati on for rice through crop manager (webapp)	2 nd quarter	1	ON	2	0	0	0	16	2	18	2	20
Integrated nutrient managemen t	Role of green manuring in soil fertility management	-Do-	1	OFF	2	0	0	0	16	2	18	2	20
Integrated nutrient managemen t	Integrated nutrient management in pulses	3 rd quarter	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrie nt deficiency in crops	Fertilizer recommendati on for wheat through crop manager (webapp)	-Do-	1	OFF	2	0	0	0	16	2	18	2	20
Integrated nutrient managemen t	Fertilizer recommendati on for Maize through crop manager (webapp)	4 th quarter	1	OFF	2	0	0	0	16	2	18	2	20
Micronutrie nt 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

13. Frontline demonstration to be conducted* 2021

Sl.	Season	Crop	Variety	Area in ha.	No. of
No		_	-		Demonstration
1	Kharif	Paddy	R. Sweta	12	
2		Madua		0.25	
3		Turmeric	R. Sonia	01	
4		Fodder crop	Napier	02	
5	Rabi	Wheat	HD- 2967	04	
6		Mushroom	Oyster, Button, Milky	100 kg.	
7		Vegetable Seed	Nutrigarden	100 pkt.	100
8		Sodium Benzoate		500 gm	25 farmers
9		Citric Acide		500 gm	25 farmers
10		Potassium meta		500 gm	25 farmers
		bisulphate			

		Propose		Parameter	Cost of Cul	tivation (F	Rs.)	No. of	f farm	ers /	demo	nstrat	ion			
Sl.	Crop &	d Area	Technology	(Data) in				SC		ST		Oth	er	To	tal	
No .	variety / Enterprise s	(ha)/ Unit (No.)	package for demonstratio n	relation to technology demonstrate d	Name of Inputs	Demo	Local	M	F	M	F	M	F	M	F	T

Extension and Training activities under FLD:

Activity	Title of Activity	No.	Clientele	Duration	Venue On/Off	No.	of Par		nts ST	Ot	her	To	otal	
						M	F	M	F	M	F	M	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 Proc	luction			
Crop / Enterprise	Туре	From to		Type of Produce	Expected Production (quintals)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)
Paddy					150			
Gram					40			
Wheat					120			
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 Produce	Expected Production(q)	Cost of inputs (Rs.)	Expected Gross income (Rs.)	Expected Net Income (Rs.)

14. Extension Activities

Notes of Entered and Author	NI 6 4 4		Total			
Nature of Extension Activity	No. of activities	Male	Female	Total		
Field Day	16	220	110	330		
KisanMela	4	100	50	150		
KisanGhosthi	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 campaigns	2	300	100	400		
Scientific visit to farmers field	35	781	241	1022		
Farmers visit to KVK	500	800	300	1100		
Swatchta Hi Sewa	15	450	154	604		

15. Revolving Fund (in Rs.)

Opening balance of 2019-2020 (As on 01.04.2020)	Amount proposed to be invested during 2021-22	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.	0.096

17. On-farm trials to be conducted* ON FARM TRIAL (2021-22)

OFT: 1 (Agricultural Engineering)

OII	T (Agriculturar Engineering)	
1	Title of On Farm Trial	Assessment of different bag storage method to minimize losses
		in storage
2	Problem diagnosed	Post-Harvest losses in storage.
3	Details of Technologies selected for	Farmers Practice- Storage in Plastic Bag
	Assessment	Tech Option I- Storage in thin PVC bag and putting inPlastic
		Bag
		Technology Option II- Storage in Hermetic Bag and putting
		in Plastic Bag
4	Source of Technology	University of Illions, USA, BAU Sabour
5	Performance Indicator	Moisture Content %, Germination Rate %, Storage Loss%, BC
		ratio
6	Replication	10
7	Production system and thematic area	Pulse- Fallow
8	Constraints identified	Storage loss during storage of pulses resulting poor income
9	Process of Farmer Participation	

OFT: 2 (Agricultural Engineering)

1	Title of On Farm Trial	Assessment of different Mulching Materials in production of
		Vegetables
2	Problem diagnosed	Weed probalem as well as water management.
3	Details of Technologies selected for	Farmers Practice- Without Mulching
	Assessment	Tech Option I- Mulching with paddy straw
		Technology Option II- Mulching with Plastic Mulching
		Material
4	Source of Technology	BAU Sabour
5	Performance Indicator	No of irrigation, weed population/m2, yield q/ha & BC ratio
6	Replication	10
7	Production system and thematic area	Pulses- Vegetables
8	Constraints identified	High cost of weeding and water utilization.
9	Process of Farmer Participation	

OFT: 3 (Extension Education)

011	. 5 (Extension Education)	
1	Title	Impact of Community Radio Programmeonawareness(knowledg
		related to Nutritional and health wellbeing of Radio Listener
2	Problem diagnosed	Low awareness level on Nutrition and health wellbeing among
		Listeners
		(Daily life experience, books and newspaper and TV/radio are the
		main sources of information as coated by Information Sources and
		Awareness Level of Rural Communities on Food and Nutrition
		Security Discussion Paper 7 (MANAGE-Centre for Agricultural
		Extension Innovations, Reforms, and Agripreneurship (CAEIRA)
3	Details of Technology	Tech Option I – Farmers listeningCommunity Radio
		Tech Option II - Farmers listening other media
4	Source of technology	C.R. Compendium
5	No. of Farmers	50 Radio listener
6	Production system and Thematic Area	Capacity Building
7	Constraints identified and Feedback of	
	research	
8	Performance of Technology	Change in Nutritional awareness (knowledge), Change in
	Performance Indicator	awareness (knowledge) related to health wellbeing due to
		listening of C.R
9	Process of Farmers Participation &	
	their reaction	

OFT: 4 (Extension Education)

1	Title	Study on awareness and perception of farmers about Soil Health
		In Paddy cultivation.
2	Problem diagnosed	Low awareness about benefits of Soil Health Card among
		farmers
3	Details of Technology	Tech Option I - Farmers having no Soil Health Card
		Tech Option II - Farmers having Soil Health Card but not
		follow the recommendation.
		Tech Option III - Farmers having Soil Health Card and follow
		the recommendation.
4	Source of technology	BAU,Sabour, Bhagalpur
5	No. of Farmers	20
6	Production system and Thematic Area	Capacity Building
7	Performance of Technology with	Awareness about SHC, Difficulty in calculation of
	performance indicator	Fertilizer dose, Change in pattern of fertilizer use and Yield
8	Final Recommendation for Micro level	
	Situation	
9	Process of Farmers Participation and	
	their reaction	

OFT: 5 (Plant Protection)

1	Title	Crop residue management through mushroom production.
2	Problem diagnosed	Mustard straw is not suitable for cattle feed and
		farmers used to burn in the Field after threshing leads
		to environmental pollution and hazzard to soil
		health.
3	Technological option	Farmers Practice: - Use of wheat straw as substrate for oyster

		mushroom production (P. florida)
		Technology option-I: - 50% Wheat straw + 50% Mustard
		straw as substrate.
		Technology option-II: - 75% Wheat straw + 25% mustard
		straw as substrate.
		Technology option-III: - 50% Wheat straw + 50% mustard
		straw supplemented with 20gm besan / kg straw.
4	Source of Technology	NCMR Solan
5	Replication	5
6	Production system and thematic area:	
7	Performance of the technology with	Yield disease appearance Size of fruit.
	performance indicators	
8	Constraints identified	
9	Process of Farmer Participation	
10	Critical Input.	Critical Input :- Mushroom Spawn, P.P. Bag, Formaldhyde.

OFT-: 6 (Plant Protection)

OII	-: o (Plant Protection)	
1	Title	Evaluation of different fungicide for controlling Foot rot
		(Sclerotinia sclerotiorum) of coriander cultivated in raing
		season.
2	Problem diagnosed	Coriander is cultivated in raing season for leaf purpose in the
		district suffers severe problem of Foot rot leads to heary
		economic loss to the farmers.
3	Technological option	Farmers Practice: - No seed & soil treatment only Foliar
		spray
		of mancozeb @ 2 gm/lit water.
		Technology Option-I: Seed treatment with T. Viridae @ 6
		gm/kg seed and soil treatment with T. viridea @ 4 kg/ha.
		Technology Option-II: Seed & soil treatment with T. viridae
		+ Foliar spray of sulfex @ 3 gm/lit water at 15 days interval.
		Technology Option-III: Seed & soil treatment with T. Viridea
		+ foliar spray of metalaxyl @ 1 gm/ lit. water at 15 days
		interval.
4	Source of Technology	BAU, Ranchi
5	Replication	5 (200m ²⁾
6	Production system and thematic area:	
7	Performance of the technology with	Disease Incidance, Yield, Net Income
	performance indicators	& B:C Ratio
8	Constraints identified	
9	Process of Farmer Participation	
10	Critical Input	Seed, Chemical

OFT: 9 (Soil science)

1	Title	Evaluation of phosphate management through different
1	Title	Evaluation of phosphate management through unferent

		sources for enhancing productivity of Arhar in Patna
		district.
2	Problem diagnosed	Poor nutrient management Practices leads to low yield and profitability
3	Technological option	Farmers Practice- No fertilizer application in Arhar crop. Technological Option I:- RDF i.e use of N @ 20 kg/ha,P ₂ 0 ₅ @ 40 kg/ ha (basal)and K ₂ 0 @ 20 kg/ ha (basal)(Through DAP and MOP) Technological Option II:-Seed treatment with Rhizobium and PSB, 40 KgP ₂ 0 ₅ /haP ₂ O ₅ through SSP and 20 Kg K ₂ 0/ha through MOP. (In all technological option seed treatment will be done as per standard Practice, Pheromone trap will be used @10 trap/ha)
4	Source of Technology	BAU, Sabour
5	Replication	07
6	Production system and thematic area:	Maize/Arhar - Green gram
7	Performance of the technology with performance indicators	No. of Branch / Plant, No. of Pod / Branch, No. of seed / pod, yield (q/ha), B:C ratio
8	Constraints identified	
9	Process of Farmer Participation	

OFT: 10 (Soil science)

011	. 10 (Son science)	
1	Title	Evaluation of Sulphur and Boron Application in mustard on
		crop yield.
2	Problem diagnosed	Deficiency of Sulphur and Boron leads to poor crop yield of
		mustard.
3	Technological option	Farmers Practice: Use of N @ 75 kg/ha P ₂ O ₅ @ 55 kg/ha.
		TO I- RDF i.e use of N @ 60 kg/ha (½ basal + ½ at flowering
		stage) P ₂ O ₅ @ 40kg/ha (basal) K ₂ O@ 40 kg/ha (basal)
		TO II- RDF+20kg/S/ha
		TO III- RDF+ 20kg/S/ha+1 kg/ B/ha.
4	Source of Technology	BAU, Sabour
5	Replication	06
6	Production system and thematic area:	Rice- Mustard/Wheat- Grenn gram
7	Performance of the technology with	No. of branch / plant, No. of pod / branch, No of seed /Siliqua,
	performance indicators	yield (q/ha), B:C ratio
8	Constraints identified	
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	2.5 Lakh
2	SMART New Delhi	0.50 Lakh
3	BAU, Sabour (Video Confe.)	4 Lakh
4	BAU Sabour (IFS)	2 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 2020-21	Proposed date during 2021-22
14.10.2020	October, 2021

21. Soil and water testing

Details	No. of Samples	No. of Farmers							No. of Villages	No. of SHC distributed		
	Samples	SC		ST		Otl	her	Tota	.1		v mages	distributed
		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 2021-22 (Lakh)
Pay & Allowances	148
TA	1.50
Contingency	18
HRD	1
NR	10

^{*} 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