



ANNUAL ACTION PLAN 2023

**KRISHI VIGYAN KENDRA, KHODAWANDPUR
BEGUSARAI**



**Dr RAJENDRA PRASAD CENTRAL AGRICULTURAL
UNIVERSITY, PUSA, SAMASTIPUR-848125- (BIHAR)**



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KHODAWANDPUR, BEGUSARAI – 848 202 (Bihar)



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Sr. Scientist and Head
Krishi Vigyan Kendra, Begusarai
Signature with seal

Total land with KVK (in ha): 20

S. No.	Item	Area (ha)	Name of infrastructure
1	Under Buildings	2.0	Administration Buildings, KisanGhar, Sr. Scientist & Head Residence, Godown, Implement shade, Animal shade
2.	Under Demonstration Units	2.0	Poshan Vatika, Stray cattle management model, Poultry unit, Goatry unit, Vermi& NADEP Compost Unit, Azola Unit, Poly house, Green house, Solar based underground pipeline based micro-irrigation system, Custom hiring center, Fodder production unit, Green fertlizer unit,
3.	Under Crops	13.0	Paddy, Wheat, Mustard, Potato, Lentil, Maize, Arhar, Natural farming plots, CRA plots, Pulse demo-unit
4.	Orchard	2.0	Mango, Jamun, Guava & Litchi
5.	Agro-forestry	1.0	Shisham, Shemal, Ashoka
6.	Others with details	-	Season based crop museum
	Total	20.0	

**Total area should be matched with breakup*

Infrastructure Development:

Buildings and others

S. No.	Name of infrastructure	Not yet started	Completed up to plinth level	Completed up to lintel level	Completed up to roof level	Totally completed	Plinth area (sq.m)	Functional/non-functional*	Source of funding
1.	Administrative Building					Completed	550	Need repairing	ICAR
2.	Farmers Hostel					Completed	600		ICAR
3.	Staff Quarters (6)	3 in use 2 need to be repaired				One Completed		-	-
4.	Piggery unit							-	
5	Fencing					Comple		-	Universit

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						e			y
6	Rain Water harvesting structure							-	
7	Threshing floor					Complete	500	Under use	ICAR
8	Farm godown					Complete	2400sq. ft.	Under use	RKVY
9.	Dairy unit					Complete	4000	Under use	RKVY
10.	Poultry unit					Complete	1000 sq. ft.	Under use	RKVY
11.	Goatry unit					Complete	200 sq. ft.	-	RKVY
12.	Mushroom Lab							-	
13.	Mushroom production unit						-	-	
14.	Shade house					Complete	2000sq. ft.	Damaged	NHM
15.	Soil test Lab					Complete	4000sq. ft.	-	ICAR
16.	Poly house (2)					Complete	4000sq. ft.	One non functional	NHM
17.	Solar Tree (2)					Complete	5 HP	Functional	PMKSY
18.	Implement shade					Completed	5000sq. ft.		
19.	Brooder house cum Hatchery unit					Completed	450 sq. ft.	Functional	ICAR

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* If not in use, then since when and reason for non-use

Details of operational area / villages (2023)

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	Begusarai	Bhagwanpur	Jayrampur	Paddy, Wheat, Maize	Production in Paddy crop by zero tillage	3
		Virpur	Fazilpur	Paddy, Wheat, Maize, Lentil, Mustard	Problems in good quality seeds, nutrient and water management	3
		Matihani I	Matihani I	Paddy, Wheat, Maize	Problems in good varieties seed, lack of machines	2
		Vinodpur	Lodhi	Paddy, Wheat, Maize	Pod formation in soybean crop	2
		Sikandarpur	Begusarai	Cow mat	Quality of cow mat	6
2	Manjhaul	Chaurahi	Chaurahi	Paddy, Wheat, Maize	Problems in maize production	2
		Cheria bariyarpur	Bikarpur	Hydroponics Fodder, Maize, Millet, Potato, Mustard	Problems in good quality seeds, harvesting of crop and water management	1
		Fafuat	Khodawandpur	Hydroponics Fodder, Maize, Millet, Potato	Problems in good quality seeds, harvesting of crop and water management	3
3	Baliya	Tetri	Dandari	Maize, Millet, Potato	Problems in good quality seeds, harvesting of crop	1
4	Barauni	Baharbanni	Teghra	Cow mat	Quality of cow mat	5
5	Bakhari	Naykotho		CSISA and CFLD	Problems in good quality seeds, harvesting of crop and water management	1

Details of village adoption programme during 2023:

Name of the villages adopted by Sr. Scientist & Head and SMS (in year 2023) for its development and action plan

Name of village	Block	Action taken for development
Sakrauli	CheriaBariyarpur	OFT/FLD/Training/ Participatory seed production programme/KisanGosthi/ Exposure visit/ Diagnostic visit/ Field days/Group meeting/ Travelling seminar/ Technology & crop cafeteria/ Development of irrigation facility/Swachhata programme/Natural farming awareness programme/ PRA&RRA/ Animal health camps/SHG & FPO formation and strengthening/ Establishment of CHC center/ Promotion of service providers/ IFS model/Poultry and Goatery units etc
Musahari	Khodawandpur	
Gopalpur	CheriaBariyarpur	
Korjana	CheriaBariyarpur	
Rampur	CheriaBariyarpur	
Badkurba	CheriaBariyarpur	
Vikrampur	CheriaBariyarpur	
Lodhi	Begusarai	
Fazilpur	Virpur	
Fafuat	Khodawandpur	

Priority thrust areas of KVKs

S. No	Thrust area
1.	Promotion of Natural farming through Stray cattle management model, Dairy, Bio-gas production, green manuring, waste decomposer, green fertilizer, use of toilet manure etc.
2.	Reduction in productivity gap of major and important crops through INM, IPM, IDM, Integrated weed, and water management with improved varieties of seeds
3.	Promotion of farm mechanization and Resource Conservation Technologies through the network of Custom hiring centers and Service providers
4.	Use of ICT and IOTs in Agriculture
5.	Soil health management through soil testing and distribution soil health cards among farmers

6.	Promotion of cultivation of high value and off-season horticulture crops-fruits and vegetables
7.	Entrepreneurship skill development among the rural youth for self-employment in order to attract and retain the rural youth agriculture and allied sectors
8.	Group based Extension
9.	Assessment and refinement of Suitable and remunerative cropping system in concerned district among marginal farmers under climate change scenario
10.	Integrated farming system
11.	Popularizing Oilseeds and pulses among the farmers with recommended agronomical packages of practices for livelihood and nutritional security of households
12.	

District Profile Begusarai

Agricultural profile of the district

Begusarai is the industrial and financial capital of Bihar. Per capita income of the district stands third in state- just after the state capital Patna and mineral rich district Munger (Per capita income of Begusarai, Bihar and India is Rs 17587, Rs 14574 and Rs 61564 respectively in year 2011-12. Agro based industry like Deshratan Dr. Rajendra Prasad Dugdha Utpadak Sahkari Sangh Ltd. Barauni Dairy, Barauni, Hindustan Urvarak & Rasayan Ltd., Barauni, Barauni Thermal Power Station, Barauni, Indian Oil Corporation Ltd. Barauni, Magadh Sugar Mill, Hashanpur and well connectivity by Rail and road is main reason behind this higher per capita income.

A brief agricultural profile of the district is as follows:

Land use pattern

S.No.	Particulars	Bihar		Begusarai	
		Value	Percentage	Value	Percentage
i	Geographical area	9359570 ha	-	1,85,656 ha	-

ii	Net cropped area	5252250 ha	56.1	1,17,200 ha	62.78
iii	Irrigated land	3521000 ha	37.16	85,111 ha	72.62
iv	Gross cropped area	7580140 ha	-	1,59,500 ha	-
v	Cropping Intensity	144%	-	137 %	-
vi	Forest area	621640 ha	6.6	2,400 ha	1.29
vii	Cultivable waste land	44,890 ha	0.5	10100 ha	5.44
viii	Barren and uncultivable land	4,31,720 ha	4.6	18,000 ha	9.69
ix	Other fallow	120490 ha	1.3	22,000 ha	11.84
x	Big farmers	84000	0.51	6254	2.0
xi	Marginal farmers	1,47,44000	91.06	263027	76.0
xii	Small farmers	13,63000	8.41	78710	22.0

(Source: Agriculture Census 2010-11)

Major production system

- i. Rice/maize-wheat/mustard/lentil-Summer vegetables
- ii. Soyabean-wheat-Mentha/Summer vegetables
- iii. Sugercane+potato/mustard/coriander/chick pea/rajma
- iv. Rice-wheat-Green gram
- v. Rice-Potato+Maize-Summer vegetables
- vi. Rice-Vegetable (Cauliflower, Onion, Potato)-Moong
- vii. Vegetable (Oal, Turmeric, Onion) - Wheat -Vegetable (Bottle gourd, Sponge gourd)
- viii. Papaya/Banana+ potato/mustard/coriander/pea/tomato

Area, production and productivity of major crops in the district:

Sl. No.	Crop	Begusarai			Bihar		
		Area ('000 ha)	Production('000 M.T.)	Yield (kg/ha.)	Area ('000 ha)	Production('000 M.T.)	Yield (kg/ha.)
1.	Rice	12.23	29.26	2393	NA	NA	2496
2.	Wheat	69.51	256.21	3686	NA	NA	3078
3.	Maize	72.26	281.59	3897	NA	NA	5236
4.	Pulses	3.47	3.59	1034	NA	NA	891
5.	Sugarcane	8.3	387.8	46722	NA	NA	56949
6.	Potato	9	252.1	35700	326.6	9035.1	27664
7.	Onion	1.85	41.06	45050	58.3	1328.3	22783
8.	Cauliflower	1.74	35.04	49650	68.7	1031.5	15014
9.	Brinjal	2.7	67.09	40240	57.9	1203.8	20791
10	Banana	1.19	54.69	21750	42.9	1968.2	45878
11	Guava	0.41	3.71	11051	29.8	434.4	14577
12	Litchi	0.52	2.9	17931	36.2	308	8508
13	Mango	4.22	41.51	10166	160.3	1543.3	9627

(Source: Bihar Economic Survey, finance department Govt of Bihar 2022-23)

Livestock population:

Category	Population in Begusarai (in 000)	Population in Bihar(in 000)
Cattle		
Exotic/Cross bred	442.162	4100.46
Local (Indigenous)	14.818	11297.513
Buffaloes	86.408	7719.794
Goats	213.315	12821.216
Sheep	0.215	213.77

Pigs		
Exotic/Cross bred	1.716	343.434
Local (Indigenous)		

(Source: Bihar Economic Survey, finance department Govt of Bihar 2022-23)

Animal, production in the district:

Category	Production (In 000 tonnes)
Cow	455.8
Cross bred	449.79
Local (Indigenous)	6.01
Buffalo	56.31
Goat	4.32

(Source: Bihar Economic Survey, finance department Govt of Bihar 2022-23)

Demographic profile

S.No.	Particulars	Bihar		Begusarai	
		Value	Percentage	Value	Percentage
i	Number of Villages	44,874	7.013	1140	2.54
ii	Number of Block	534	8.07	18	3.37
iii	Total population	10,40,99000	8.26%	29,70,541	2.85%
iv	Male	54,27,8000	52.15	15,67,660	52.77
v	Female	49,82,1000	47.85	14,02,881	47.23
vi	Population density/ km ²	1106	-	1,549	-
vii	Average literacy	61.8	61.18	63.87%	63.87%
viii	Rural population	92,34,1000	88.7	2537210	85.41
ix	Schedule Caste	1 6,567,325	15.91	432,270	14.55

x	Schedule tribe	1,336,573	1.2	1597	0.05
xi	Sex ratio	918	-	895	-

(Source: Census of India 2011)

Category of Workers (Main & Marginal)

		Number	Percentage	Number	Percentage
Farmer	Person	7,196,226	20.72	146,035	15.57
	Male	5,745,420	22.78	123,132	17.21
	Female	1,450,806	15.27	22,903	10.28
Agricultural labourers	Person	1 8,345,649	52.83	430,870	45.93
	Male	1 2,570,717	49.84	316,084	44.19
	Female	5,774,932	60.77	114,786	51.51
Workers in household industry	Person	1,411,208	4.06	58,167	6.20
	Male	762,118	3.02	32,476	4.54
	Female	649,090	6.83	25,691	11.53
Other Workers	Person	7,771,904	22.38	303,110	32.31
	Male	6,143,934	24.36	243,653	34.06
	Female	1,627,970	17.13	59,457	26.68

(Source: District census handbook, Begusarai 2011)

Agro-climatic zone

Agro Ecological Sub Region (ICAR)	Eastern Plain, Hot Sub-humid (Moist) Eco sub región (13.1)
Agro-Climatic Zone (Planning Commission)	Middle Gangetic Plain Region (IV)
Agro Climatic Zone (NARP)	North Bihar New Alluvial Plain Zone (I)

Source: CDAP, ATMA, Begusarai 2009-10

Table 6.7: Soil Types

Major Soils (common names like red sandy loam deep soils)	Area ('000 ha)	Percent of total
Old alluvium- Reddish yellow-Reddish Brown Soils (Loamy)	102	43.9
Old alluvium-Grey- Greyish yellow- heavy soil (Clay loam)	82	35.3
New alluvium- Non calcareous- Non Saline – Yellowish Red soils (Sandy loam)	44	18.9

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Action Plan 2023

- Name of the K.V.K. : Begusarai, Bihar
- Name of Host Organization : Dr. Rajendra Prasad Central Agricultural University, Pusa, Samastipur

1. Training Programme to be Organized : (January 2022 to December2023)

I. Farmers and farm women

A. Agricultural Engineering

Sl.No.	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Farm Mechanization	Utility of Improved Farm Implements and Machinery	3	6	10	50	60
2.	Farm Implements and Machinery	Care and maintenance of farm machinery and implements.	2	4	8	47	55
3.	Micro irrigation	Importance and Management of Micro Irrigation system.	2	4	4	36	40
5.	Soil and Water Conservation	Ground water management by Rain water Harvesting	2	4	8	47	55
6.	Processing and Food Engineering.	Milling of pulses by Dal Mill	2	4	4	36	40
7.	Farm Mechanization	Importance of Zero Till Fertilizer Seed Drill machine in agriculture	3	6	10	65	87
8.	Soil and Water	Role of land laser leveler	2	3	5	35	40

	Conservation	in water conservation					
9.	Micro Irrigation	Installation and Management of Micro Irrigation systems	2	4	4	36	40
10.	Farm Mechanization	Improved Sowing implements for sowing operation	2	3	5	35	40
Sub Total (A)			20	38	58	387	445

B. Agricultural Extension/ Agronomy

S. No	Thematic Area	Course Title	No. of Course	Duration (Days)	No. of Participants		
					SC	Others	Total
1	Awareness programme	Awareness about KCC	2	4	5	15	40
2	Awareness programme	Awareness about Soil Health Card	2	4	5	15	40
3	FIG formation	Function and role and responsibility of FIG	1	2	5	15	20
4	Awareness programme	Bank loans for Agricultural crops	1	2	5	15	20
5	SHGs formation	Formation and Management of SHGs	1	2	5	15	20
6	Capacity building for ICT application	Training on ICT application in agriculture & allied sectors	2	4	5	15	40
7	Awareness programme	Awareness programme about the benefit of crop insurance scheme	1	2	5	15	20
8	Soil Management	Method of soil sampling	2	4	5	15	40
9	Soil Management	Soil Health and Fertility Management	1	2	5	15	20
10	Nursery Management	Weed control (Time and method) in kharifcrops	1	2	5	15	20
11	Nursery Management	System of Rice Intensification (SRI) a new system of rice cultivation	1	2	5	15	20
12	Integrated crop management	Production technology of pigeon pea	1	2	5	15	20
13	Integrated crop management	Production technology of Soyabean	1	2	5	15	20
14	Integrated crop management	Production technology of Wheat	1	2	5	15	20

15	Integrated crop management	Production technology of rabi pulses	1	2	5	15	20
Sub Total (B)			19	38	100	300	400

C. Crop Protection

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Integrated pest management (IPM)	IPM in mango	1	2	4	26	30
		IPM in vegetables	3	6	12	60	72
		IPM in kharif crops	3	6	12	58	70
		IPM in rabi crops	2	4	8	50	58
		IPM in maize	2	2	8	48	56
2.	Integrated Disease Management (IDM)	IDM in mango	1	2	4	26	30
		IDM in sugarcane	1	2	4	26	30
		IDM in vegetables	2	6	7	43	50
		IDM in kharif crops	2	4	8	44	52
		IDM in Maize	1	2	4	26	30
		IDM in rabi crops	3	6	13	53	66
		IDM in oil seeds & pulses	2	4	8	45	53
3.	Biological control	Management of pod borer by bio-control agents	1	2	5	25	30
		Use of bio-control agents to manage soil borne diseases	2	2	8	44	52
4.	Safety guidelines for using pesticide	Safety guidelines for using pesticide	2	2	9	45	54
Sub Total C			28	52	114	619	733
Total (A+B+C)			65	126	250	1243	1493

D. Horticulture

Sl.No.	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Vegetable production	Early Cauliflower production technique	2	2	5	20	25
2.	Production of low volume high value crops	Production technique of tomato	3	2	5	20	25

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3.	Medicinal plant cultivation	Medicinal plant cultivation techniques	2	2	5	20	25
4	Vegetable Production	Organic Cultivation of vegetables	2	2	5	25	30
5	Nursery Raising	Vegetable seedling production in Pro-tray	2	2	4	24	28
6	Integrated nutrient management	INM in Brinjal	2	2	6	24	30
8	Layout and management of Orchard	Establishment of Mango orchard	3	3	3	19	22
9	Cultivation of fruit	Technique of Papaya cultivation	2	2	5	20	25
10	Vegetable seed production	Seed production of Potato	2	2	2	20	22
11	Spices Production	Production of Fenugreek	2	2	3	18	21
12	Vegetable Production	Technique of Chilli cultivation	2	2	2	24	26
13	Mushroom Production	Technique of Mushroom Production	2	2	2	23	25
14	Flower cultivation	Cultivation of Marigold	2	2	2	18	20
15	Vegetable Production	Technique of Beans Cultivation	2	2	1	24	25
16	Orchard management	Management of Lichi orchard	2	2	2	18	20
Total			32	33	52	317	369

E. Animal Science

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Goat Farming	Commercial goat farming	03	04	16	104	120
2.	Feed Management	Silage making	02	02	08	52	60
		green fodder production	02	02	08	52	60
3.	Disease Management	Primitive & curative measures for disease management in animals	02	01	08	52	60
4.	Dairy Management	Establishment of dairy farm	02	4	08	52	60
		Clean milking	01	01	05	25	30
5.	Poultry Management	Establishment of poultry farm for commercial purpose	02	04	12	48	60
6.	Disease Management in chicken	Disease Management in chicken	02	01	10	50	60
	total		16	21	75	435	510

II Rural Youth**A. Agricultural Engineering**

Sl.No	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Farm Mechanization	Utility of Improved Farm Implements and Machinery	1	5	4	21	25
2.	Farm Implements and Machinery	Care and maintenance of farm machinery and implements.	2	8	4	36	40
3.	Micro irrigation	Importance and Management of Micro Irrigation system.	1	4	2	18	20
Total			4	17	10	75	85

B. Agriculture Extension

Sl.No	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Youth Development	Motivating rural Youth towards Agriculture	2	2	5	20	50
2.	Capacity building for ICT application	Training on ICT application in agriculture & allied sectors	1	2	5	20	25
3.	Leadership Development	Leadership Development among rural youth	1	2	5	20	25
4.	Entrepreneurship development	Entrepreneurial Development of farmers/youths	1	2	5	20	50
5.	Youth Development	Motivating rural Youth towards Agriculture	1	2	5	20	25
Total			6	10	25	100	175

C. Plant Protection

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Mushroom production	Mushroom production techniques	3	12	14	66	80
2.	Bee keeping	Bee keeping	2	8	8	42	50
Total			5	20	22	108	130

D. Horticulture

Sl.No	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Planting material	Plan propagation technique in mango, guava and citrus	3	5	5	20	25
2.	Protected Cultivation	Nursery raising of vegetable crops in poly house and shed net house	3	5	5	20	25
Total			6	10	10	40	50

E. Animal Science

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Goat rearing	Commercial goat rearing	02	4	6	44	50
2.	Dairy Management	Establishment of dairy farm & its management	01	4	4	26	30
3.	Poultry Management	Establishment of poultry farm & its management	01	4	4	26	30
Total			04	12	14	96	110

III Extension Functionaries**A.Plant Protection**

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Integrated disease management (IDM)	IDM for sustainable farming	1	1	5	25	30
2.	Biological control	Importance of bio pesticides for vegetable production	1	1	4	24	28
Total			2	2	9	29	58

B Agricultural Engineering

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Farm Mechanization	Utility of Improved Farm Implements and Machinery	2	3	10	50	60
2.	Farm Implements and Machinery	Care and maintenance of farm machinery and implements.	1	2	2	18	20
Total			3	5	12	68	80

C. Agriculture Extension

Sl. No	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Group dynamics	Formation & Role of FPO/FPC	1	2	5	15	20
2.	Capacity building for ICT application	Training on ICT application in agriculture & allied sectors	2	2	5	15	40
3.	Importance of Participatory Approaches	Use of PRA technique for information collection & Problem Identification	2	2	5	15	40
Total			5	6	15	45	100

D. Horticulture

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1	Rejuvenation of orchard	Rejuvenation of Mango orchard	2	2	2	18	20
2	Organic Cultivation	Technique of organic vegetable production	2	2	2	18	20
Total			4	4	4	36	40

E. Animal Science

Sl. No	Thematic Area	Title	No. of Courses	Duration (Days)	No. of Participant		
					SC	Others	Total
1.	Disease Management	disease management of infections diseases of animals	01	01	4	26	30
2.	Feed Management	Production & importance of green fodder	01	01	5	25	30
3.	Dairy Management	Clean milking	01	01	5	25	30
Total			03	03	14	76	90

4. Frontline Demonstration (FLD):

Season	Topic	Crop	Variety/ Technologies	No. of Demonstration	Area (ha)
Kharif	Control Measure for Fall Army worm	Maize	Pheromone Trap	30	05
	Yield assessment	Maize	DKC 7074/DHM117/BIO9544	25	10
	Storage of maize in Hermetic bag	Maize	Hermetic Bag (Grain Storage Technology)	30	-
Rabi	Sowing of wheat by zero tillage machine	Wheat	Zero-tillage	20	08
	Biological Control of fruit shoot borer	Brinjal	Pheromone Trap	20	05
	Yield assessment	Wheat	HD 2967	25	10
	Yield increments through Water conservation	Tomato Okra Papaya	Bio-gradable polythene mulching in vegetable crops	15	03

3. Seed Production Programme and Planting Material

Area for seed production		Planting Materials	
Crop	Area (ha)	Crop	No.
1. Arhar (Kharif)	1.0	Planting material	19000
2. Wheat (Rabi)	5.0	Papaya plants	1000
3. Mustard (Rabi)	4.0	Vegetable seedlings	80000
4. Moong (Summer)	2.0		
5. Sugarcane (Rabi)	1.0		
6. Lentil (Rabi)	2.0		

4. On Farm Trial to be Conducted**OFT-1 (Agricultural Engineering)**

1.	Title of On Farm Trial	Assessment of Cut Off ratio in Wheat irrigation
2.	Problem Diagnose	Poor water Management decreases the yield

3.	Details of Technologies selected for assessment	Farmers Practice- 100% irrigation
		T.O.-I Irrigation at 90% cut off
		T.O.-II Irrigation at 80% cut off
4.	Source of Technology	RPCAU, Pusa
5.	Replication	7
6.	Production System & Thematic Area	Rice Wheat, Agricultural Mechanization
7.	Performance of Technology with performance indicator	<ul style="list-style-type: none"> • Water saving • Yield • B: C ratio
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	<ul style="list-style-type: none"> • KrishakGosthi • Field Visit • Training

OFT- 2 (Agricultural Engineering)

1.	Title of On Farm Trial	Assessment of Multi crop planter for sowing of pulses in different field condition
2.	Problem Diagnose	Convention sowing of maize cropping decreases crop yield
3.	Details of Technologies selected for assessment	Farmers Practice- Board casting in tilled condition
		T.O.-I Sowing with Zero tillage Multi crop Planter (No till condition)
		T.O.-II Sowing with Multi crop Planter (Tilled condition)
4.	Source of Technology	RPCAU, Pusa
5.	Replication	7
6.	Production System & Thematic Area	Agricultural Mechanization
7.	Performance of Technology with	<ul style="list-style-type: none"> • Field Capacity • Yield

	performance indicator	<ul style="list-style-type: none"> • B: C ratio
8.	Constraints identified and feedback for research	
9.	Process of farmers participation and their reaction	<ul style="list-style-type: none"> • KrishakGosthi • Field Visit • Training

OFT-3 (Horticulture)

1.	Title of on farm trial	Assessment of organic inputs for papaya cultivation (Horticulture)
2.	Problem Diagnosed	Increased cost of cultivation using inorganic fertilizers
3.	Details of Technologies selected for assessment	FP: FYM or Compost
		TO-1: Vermi-compost (2 kg) / Compost (10 kg) + IIHR Consortia
		TO-2: Vermi-compost (2 kg) + Ghanjivamrit + liquid solution of an edible oil cake (500 g/ plant - 5 drenching)
4.	Source of Technology	IIHR, Bangalore
5.	Replication	7
6.	Production System & Thematic Area	
7.	Performance of Technology with performance indicator	
8.	Constraints identified and feedback for research	<ul style="list-style-type: none"> • Lack of Knowledge on organic inputs •
9.	Process of farmers participation and their reaction	<ul style="list-style-type: none"> • Kisan Gosthi • Field Visit • Training

OFT- 4 Animal Science

1.	Title of on Farm Trial	‘Assessment of deworming and chelated mineral mixture supplementation during prepartum period on performances of goats.
2.	Problem Diagnosed	Low body weight because of a parasite burden, poor feeding practices, and mineral deficiency
3.	Details of Technologies selected for assessment	T.O.1: Farmer Practice- No deworming and mineral mixture supplementation T.O.2: Mineral mixture supplementation (5g /day) T.O.3:Deworming of goats (recommended dose) and supplementing mineral mixture (5g /day)
4.	Source of Technology	NDDB
5.	Replication	7 goats
6.	Duration	90 Days
7.	Production System & Thematic Area	Animal Health and Production
8.	Performance of Technology with performance indicator	<ul style="list-style-type: none"> • Health • Growth rate • Reproductive performances
9.	Constraints identified and feedback for research	
10.	Process of farmers' participation and their reaction	<ul style="list-style-type: none"> • Training • Kishan Gosthi • Individual interaction

5. Extension Activities

Activities	No.	Participants
Field day	12	500
Diagnostic visit	200	450
KisanMela	10	Mass
Popular articles	10	Mass
Booklets	02	-
Advisory services	300	8000
Extension literature	10	-
Exhibition	01	-
KisanSammelan	02	-
Animal health camp	-	-
Radio talk	10	Mass
TV Talk	10	Mass
SAC Meeting	02	70
Kishan Mela	15	800

Crop Seminar	01	200
Technology week	01	500

6. Success Stories to be Developed- 06**7. Scientific Advisory Committee Meeting**

Date of SAC meetings held during 2023	Proposed date

7. Expected fund utilization:

Project	Source	Amount to be received (Rs. In lakh)
CRA	Govt. of Bihar	97.58
CSISA	Bill and Millnda Gates Foundation	1.0
RKVY	ICAR	34.0
ATMA		0.75
ITC		0.50

9. Soil and water testing:

	No. of samples to be analyzed
Soil	3000
Plant	-
Manure	-

10. Staff Position

Sanctioned post	Name	Qualification	Pay Scale	Basic Pay	Gross Salary per Month	Total Amount per Year
Sr. Scientist & Head	Dr Ram Pal	PhD (Agril. Engg.)	RGP of Rs 9000/- level 13A	139400.00	230628	2767536
SMS 1	Dr. Sushma Tamta	PhD(Agril. Engg.)	GP-5400/- level 10	57800	103880	1246560
SMS 2	Dr. Naganagouda Patil	Ph.D (Horticulture)	GP-5400/- level 10	57800	103880	1246560
SMS 3	Dr. Vipin	Ph.D (Animal Science)	GP-5400/- level 10	57800	103880	1246560
SMS 4	Vacant					
SMS 5	Vacant					
SMS 6	Vacant					
Computer Programmer	Vacant					
Farm Manager						
Lab Assistant	Sri AnshumanDwivedi	M.Sc (Soil Science)	level 6	41100	72787	873444
Accountant/Assistant	Sri Amitesh Kumar Gaurav	B. Tech (Electrical)	level 6	41100	72787	873444
Stenographer	Sri Chandrama Singh	Intermediate	level 4	29600	53136	637632
Driver 1	Sri Rahul Kumar	Intermediate	level 3	23100	42029	504348
Driver 2				-	-	-
Supporting Staff 1	Md. MumtazAlam	Metric	level 3	38300	64219	770628
Supporting Staff 1	Vacant					

11. Status of infrastructure

Infrastructure	Complete	Under construction	Not started	Reasons, if not started
Administrative building	Yes	-	-	-
Trainees' hostel	Yes	-	-	-
Staff quarter	-	-	Yes	No fund
Demonstrations: Unit Vermicompost unit Mushroom Spawn production Mushroom production	Yes	-	-	-

12. Estimated Budget for 2022-2023

Sl. No.	Heads	Budget estimate 2022-23 (Rupees in Lakh)
A. Salary		
1.	Pay & Allowances	103.36
Total A		103.36
B. General (Recurring)		
1.	TA	0.75
2.	HRD	0.15
3.	Contingency	
a.	Stationary & POL	6.5
b.	Training & Training materials	
c.	FLD other than Pulses & Oilseeds	
d.	On Farm Testing	
e.	Soil and water testing Lab.	
f.	Maintenance of buildings	
g.	Extension Activities/ Exhibitions, KisanMela etc.	
Total B		7.4
C. Non-recurring		
1.	Equipments, Furniture and Furnishing etc.	-
2.	Library	-
Total C		0
Grand Total (A+B+C)		110.76

Senior Scientist & Head