सत्यमेव जयते

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

KRISHI VIGYAN KENDRA

HODAWANDPUR, BEGUSARAI – 848 202 (Bihar)

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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 ferlitizer 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:

A) 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					Complete	550	Need repairing	ICAR
2.	Farmers Hostel					Complete	600		ICAR
3.	Staff Quarters (6)	3 in use 2 need to be repaired				One Completed		-	-

4.	Piggery unit							-	
5	Fencing					Complete		-	University
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					Completed	450 sq. ft.	Functional	ICAR

	Hatchery unit								

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

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 livelihoodand nutritional security of households

Details of village adoption programme:

Name of the villages adopted by PC and SMS (2021) for its development and action plan

Name of village	Block	Action taken for development
Sakrauli	Cheria Bariyarpur	Frontline Demonstration on the topic of " Planting of Maize by Raised bed Planter" in Kharif Farmers Awareness Programme to create awareness about the importance of weather forecasting report as well as DAMU Project
Musahari	Khodawandpur	IPM and IDM implementation in horticultural and cereal crops. Conducted all mandates
Gopalpur	Cheria Bariyarpur	Mechanization and Mushroom cultivation activities conducted. CSISA project intervention.
Bagwan	Bakhri	CSISA project interventions and conducted OFT FLD all extension activities.
Rampur	Cheria Bariyarpur	Mechanization & CRA Project
Badkurba	Cheria Bariyarpur	Mechanization & CRA Project
Vikrampur	Cheria Bariyarpur	Mechanization & CRA Project

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 Dugdh Utpadak Sahkari Sangh Ltd. Barauni Dairy, Barauni, Hindustan Urvarak & Rasayan Ltd., Barauni, Barauni Tharmal 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:

(A) 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	4,31,720 ha	4.6	18,000 ha	9.69

	uncultivable land				
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)

(B) Major production system

i. Rice/maize-wheat/mustard/lentil-Summer vegetables
ii. Soyabeen-wheat-Mentha/Summer vegetables
iii. Sugercane+potato/mustard/corriander/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/corriander/pea/tomato

(C) 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 2021-22)

(D) 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 2021-22)

(E) 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 2021-22)

(F) 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 litracy	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)

(G) 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)

(H) 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

(I) 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

KRISHI VIGYAN KENDRA, BEGUSARAI

Action Plan 2021-2022

- 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 : (April 2021 to March 2022)

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	2	6	4	36	40
2.	Farm Implements and Machinery	Care and maintenance of farm machinery and implements.	2	4	4	36	40
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	4	36	40
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	4	6	8	72	80
8.	Soil and Water Conservation	Role of land laser leveler in water conservation	1	2	2	18	20
9.	Micro Irrigation	Installation and	2	4	4	36	40

		Management of Micro Irrigation systems					
10.	Farm Mechanization	Improved Sowing implements for sowing operation	1	2	2	18	20
Sub Total (A)			**18**	**36**	**36**	**324**	**360**

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 kharif crops	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

SI. No.	Thematic area	Title	No. of courses	Duration (Days)	No. of participants		
					SC	Others	Total
1.	Vegetable production	Technique of vegetable production	2	2	10	40	50
2.	Production of low volume high value crops	Production technique of tomato	3	2	5	20	25
3.	Medicinal plant cultivation	Medicinal plant cultivation techniques	4	2	5	20	25
Total			**9**	**6**	**20**	**80**	**100**

II Rural Youth

A. Agricultural Engineering

SI. 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	4	2	18	20
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**	**16**	**8**	**72**	**80**

C. Agriculture Extension

SI. 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

SI. 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**

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**

D. 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	1	2	2	18	20
2.	Farm Implements and Machinery	Care and maintenance of farm machinery and implements.	1	2	2	18	20
Total			**2**	**4**	**4**	**36**	**40**

C. Agriculture Extension

SI. 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**

4. <u>Frontline Demonstration (FLD):</u>

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	1000
2. Soybean (Kharif)	1.0	Papaya plants	1000
3. Wheat (Rabi)	5.0	Vegetable seedlings	8000
4. Mustard (Rabi)	8.0		
5. Moong (Summer)	8.0		
6. Sugarcane (Rabi)	1.0		
7. Lentil (Rabi)	2.0		

4. On Farm Trial to be Conducted

OFT- 1 (Agricultural Engineering)

1.	Title of On Farm Trial	Assessment of different type of nozzle for precise use of herbicides.
2.	Problem Diagnose	Poor control of weed
3.	Details of Technologies selected for assessment	Farmers Practice- Hollow cone nozzle
		T.O.-I Cut nozzle in Knapsack sprayer
		T.O.-II 3-boom sprayer in Knapsack sprayer
4.	Source of Technology	CSISA –KVK Trial
5.	Replication	7
6.	Production System & Thematic Area	Rice Wheat, Agricultural Mechanization
7.	Performance of Technology with performance indicator	• Weed Count • Yield
8.	Constraints identified and feedback for research	• Lack of Knowledge about different types of Nozzles • Unavailability of Different Nozzles
9.	Process of farmers participation and their reaction	• Krishak Gosthi • Field Visit • Training

OFT-2 (Agricultural Engineering)

1.	**Title of On Farm Trial**	Assessment of different planting practices of Maize
2.	**Problem Diagnose**	Manual planting, Drudgery in operation, High labour requirement, Less yield
3.	**Details of Technologies selected for assessment**	Farmers Practice- Manual Planting
		T.O.-1 Dibbler
		T.O.-II Manual seed Planter
4.	**Source of Technology**	CIAE Bhopal
5.	**Replication**	7
6.	**Production System & Thematic Area**	Rice-Maize, Farm Mechanization
7.	**Performance of Technology with performance indicator**	• Labour saving • Germination • Field Capacity • Ergonomical Data (Heart Rate, BP,Mean Skin Temperature, VO_2)
8.	**Constraints identified and feedback for research**	-
9.	**Process of farmers participation and their reaction**	• Krishak Gosthi • Field Visit • Training

OFT- 3 (Agricultural Extension)

1	Title of On Farm Trial	Assessment of adoption level of technologies demonstrated by KVK, Begusarai among the farmers
2	Problem Diagnose	➢ Low production and productivity of pulses and oilseed ➢ Poor adoption of Good Agriculture Practices (GAP)
3	Details of Technologies selected for assessment/refinement	T.O.I:- Farmers Practices T.O.II:- Group meeting T.O.III:- Field day

4	Source of Technology	DRPCAU, Pusa
5	Replication	180 farmers (120 Demonstrative and 60 Non demonstrative)
6	Production System & Thematic Area	(Rice-Pulse/Oilseed) Human Resource Management (HRM)
7	Performance of Technology with performance indicator	I. Knowledge(Before and After) II. Skill(Before and After) III. Adoption (Before and After) IV. Diffusion (Before and After) V. Major reason for non-adoption
8	Process of farmers participation and their reaction	Group meeting and Field day
9	Critical Input	Seeds and Plant protection chemicals

OFT- 4 (Agricultural Extension)

1	Title of On Farm Trial	Effectiveness of extension literature on knowledge and adoption of agriculture technology
2	Problem Diagnose	➢ Poor understanding of scientific terminology by farmers ➢ Low reading habit of extension literature
3	Details of Technologies selected for assessment/refinement	T.O.I:- Farmers own practices T.O.II:- Agriculture literature provided by Agriculture University T.O.III:- Agriculture Literature provided by KVK
4	Source of Technology	DRPCAU, Pusa
5	Replication	50 farmers
6	Production System & Thematic Area	Human Resource Management (HRM)

7	Performance of Technology with performance indicator	a. Knowledge(Before and After) b. Skill(Before and After) c. Adoption (Before and After) d. Diffusion (Before and After) e. Major reason for non-adoption
8	Process of farmers participation and their reaction	Group meeting and Field day
9	Critical Input	Literatures (Study Material)

OFT- 5 (Horticulture)

1.	**Title of On Farm Trial (OFT)**	Use of Kochila (*Strychinosnux vomica* L.) mixed Cow dung compost in Brinjal var. Rajendra Baiga-2 for controlling fruit and shoot borer.
2.	**Problem Diagnose**	Fruit & shoot borer is one of the most problematic insect of Brinjal crop which is managed with heavy use of pesticides by the farmers
3.	**Details of Technologies selected for assessment/refinement**	**T.O.1:** Farmer Practice (Removal of affected parts + Pesticides) **T.O.2:** Cow dung Compost + Kochila extract (10:1) **T.O.3:** Vermicompost + Kochila extract (10:1) **T.O.4: Waste Decomposer**+ Kochila extract (10:1)
4.	**Source of Technology**	ITK (Code No 366)
5.	**Replication**	07
6.	**Production System & Thematic Area**	Organic pest management
7.	**Performance of Technology with Performance indicator**	Weight of fruit, Yield, B: C ratio
8.	**Constraints identified and feedback for research**	Development of variety of brinjal tolerant to shoot & fruit borer insect, Reduce the use of high amount of pesticide In Brinjal.

9.	**Process of farmers participation and their reaction**	Supply of inputs, Training, Field days

OFT:6(Horticulture)

1.	Title of On Farm Trial	Rejuvenation of old Litchi orchard
2.	Problem Diagnose	Old Litchi orchard gives fruits poor in yield & quality
3.	Details of Technologies selected for assessment/refinement	Farmer's practice- No Rejuvenation or pruning of branches.
		To-I- Rejuvenation of old Litchi tree to 1.0-1.5 m height with 3-4 main branches in August- September.
		To-II- Partial Rejuvenation with central open in
4.	Source of Technology	ICAR- NRC on Litchi Muzaffarpur
5.	Replication	08
6.	Production System & Thematic Area	Production Technique
7.	Performance of Technology with performance indicator	Fruit Weight, Fruit Number Yield, B:C
8.	Process of farmers participation and their reaction	
9.	Critical Input	Input supply, Training, Field Day.

5. Extension Activities

Activities	No.	Participants
Field day	12	500
Diagnostic visit	200	450

Kisan Mela	10	Mass
Popular articles	10	Mass
Booklets	02	-
Advisory services	300	8000
Extension literature	10	-
Exhibition	01	-
Kisan Sammelan	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 2020-21	Proposed date
24.02.2021	-

8. Expected fund utilization:

Project	**Source**	**Amount to be received (Rs. In lakh)**
DAMU-GKMS	IMD	4,80,000.00
SCSP	ICAR	50,000.00

9. Soil and water testing:

	No. of samples to be analyzed
Soil	1000
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.)	37400-67000/-, Pay Band-4 with RGP of Rs 9000/-(6^{th} CPC)	131400.00	168462	2021544
SMS 1	Sri Neeraj	PhD (Horticulture)	15600-39100/- GP-6000/-	73000	87600	1051200
SMS 2	Er. Vinita Kashyap	M. Tech. (FM&P)	15600-39100/- GP-5400/-	56100	71352	856224
SMS 3	Dr.Mukesh Kumar	Ph.D (Agril. Extension)	15600-39100/- GP-5400/-	56100	71352	856224
SMS 4	Vacant					
SMS 5	Vacant					
SMS 6	Vacant					
Computer Programmer	Vacant					
Farm Manager	Miss. Sneha	M.Sc (Horticulture)	-	36500	45816	549792
Lab Assistant	Sri Anshuman Dwivedi	M.Sc (Soil Science)	-	36500	45816	549792
Accountant/Assistant	Sri Amitesh Kumar Gaurav	B. Tech (Electrical)	-	36500	45816	549792
Stenographer	Sri Chandrama Singh	Intermediate	-	26300	33576	402912
Driver 1						
Driver 2			-	-	-	-
Supporting Staff 1	Md. Mumtaz Alam	Metric	-	35000	41216	494592
Supporting Staff 2	Vacant					

11. Status of infrastructure

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

12. Estimated Budget for 2021-2022

Sl. No.	Heads	Budget estimate 2020-21 (Rupees in Lakh)
A. Salary		
1.	Pay & Allowances	105.00
	Total A	***105.00***
B. General (Recurring)		
1.	TA	0.66
2.	HRD	0.30
3.	**Contingency**	
a.	Stationary & POL	5.15
b.	Training & Training materials	2.20
c.	FLD other than Pulses & Oilseeds	1.15
d.	On Farm Testing	0.90
e.	Soil and water testing Lab.	-
f.	Maintenance of buildings	0.50
g.	Extension Activities/ Exhibitions, Kisan Mela etc.	0.70
	Total B	11.56
C. Non-recurring		
1.	Equipments, Furniture and Furnishing etc.	0.60
2.	Library	-
	Total C	**0.6**
	Grand Total (A+B+C)	**117.16**

Senior Scientist & Head