Annual Report
2021

KRISHI VIGYAN
KENDRA BURDWAN

Submitted by

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PROFORMA FOR ANNUAL REPORT(January - December 2021)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		E mail
Bud Bud, Purba Bardhaman-713 403. West Bengal	Office - 0343 2513651	Fax -	kvkburdwan@gmail.com **Web:** www.kvkcrijaf.org.in

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
ICAR-Central Research Institute for Jute and Allied Fibres, Nilgunj, Barrackpore Kolkata- 700 120. West Bengal	033-25356124-25	033- 25350415	director.crijaf@icar.gov.in crijaf-wb@nic.in

1.3. Name of the Programme Coordinator with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sk. Md. Azizur Rahman (Sr. Scientist and Head)	--	6296651271 9435378886	r_aziz@rediffmail.com

1.4. Year of sanction of KVK: **2005 vide order No. 5-24 / 2002 – AE – I, dated April 01, 2005**

1.5. Staff Position (**as on 1st January, 2021**)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline/	Pay Scale with present basic	Date of joining	Permanent/Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist& Head	Dr. Sk. Md. Azizur Rahman	Senior Scientist & Head	Entomology	PB-4 (Rs 37,400-67,000) +9000. Level 13A Basic: Rs. 143600	27.12.18	Parmanent	GEN
2	Subject Matter Specialist	Dr. Dipankar Ghorai	SMS (Agriculture)	Agriculture	Rs. 78800-209200 Basic: Rs. 86100	26.04.2006	Permanent	GEN
3	Subject Matter Specialist	Dr. Subrata Sarkar	SMS (Horticulture)	Horticulture	Rs. 78800-209200 Basic: Rs. 86100	04.05.2006	Permanent	GEN
4	Subject Matter Specialist	VACANT						
5	Subject Matter Specialist	VACANT						
6	Subject Matter Specialist	VACANT						
7	Subject Matter Specialist	VACANT						
8	Programme Assistant	Mr. Sandipan Garai	Prog. Assistant	Agriculture	Rs. 56100-177500 Basic: Rs. 61300	18.04.2006	Permanent	OBC
9	Computer Programmer	Sk Golam Rasul	Prog. Assistant (Computer)	Computer	Rs. 44900-142400 Basic: Rs. 58700	10.04.2006	Permanent	GEN
10	Farm Manager	Mr. Soumya Sarathi Kundu	Prog. Assistant (Farm Manager)	Agriculture	Rs. 56100-177500 Basic: Rs. 59500	06.01.2007	Permanent	GEN
11	Accountant / Superintendent	Mr. Nilesh Ray	Assistant	--	Rs. 35400-142400 Basic: Rs. 36500	27.11.2017	Permanent	GEN
12	Stenographer	VACANT	-----					
13.	Driver	Mr. Joydeep Pal	Driver – cum - mechanic	--	Rs. 25500-81100 Basic: Rs. 30500	06.07.2006	Permanent	GEN
14.	Driver	Mr. Santi Nath Pal	Driver– cum - mechanic	--	Rs. 25500-81100 Basic: Rs. 30500	10.07.2006	Permanent	OBC
15.	Supporting staff	Mr. Shyamal Bhanja	Supporting staff	Peon	Rs. 19900-63200 Basic: Rs. 27600	25.02.2006	Permanent	GEN
16.	Supporting staff	Mr. Anup Das	Supporting staff	Cook	Rs. 19900-63200 Basic: Rs. 27600	01.03.2006	Permanent	SC

1.6. Total land with KVK (in ha) :

S. No.	Item	Area (ha)
1	Under Buildings	3.5
2.	Under Demonstration Units	2.5
3.	Under Crops	7.0
4.	Orchard/Agro-forestry	2.0
5.	Others with details	3.0
	Total	**18.0**

Total area should be matched with breakup

1.7. 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)	Under use or not*	Source of funding
1.	Administrative Building					√	552	Under use	ICAR
2.	Farmers Hostel					√	306	Under use	ICAR
3.	Staff Quarters (6)					√	400	Under use	ICAR
4.	Piggery unit								
5	Fencing					√	925 m	Under use	ICAR
6	Rain Water harvesting structure					√	7000	Under use	MGNREGA
7	Threshing floor	√							
8	Farm godown	√							
9.	Dairy unit	√							
10.	Poultry unit	√							

11.	Goatary unit					√	50	Under use	ICAR
12.	Mushroom Lab	√							
13.	Mushroom production unit	√							
14.	Shade house					√	1008	Under use	RKVY
15.	Soil test Lab					√	Instrumental support	Under use	ICAR
16	Others, Please Specify								
17.	Feed preparation Unit					√	Instrumental support	Under use	ATMA
18.	Integrated farming system					√	6000	Under use	ICAR
19.	Vermicompost unit					√	60	Under use	ATMA
20.	Portable carp hatchery					√	30	Under use	ICAR
21.	Deep tube well					√	Depth 80 ft.	Under use	ICAR

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

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
TATA SUMO WB 40 C 9883	01.04.1999	---		Condemned
Tractor WB 39 3472	01.04.1999	---		Not in working condition
Tractor WB 42 AT 5641	25.02.2019	6,19,054.00	378 Hrs	Working condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Flame photometer	2006-07	29813.00	Out of order	ICAR
Spectrophotometer	2006-07	46283.00	Out of order	ICAR
Shaker	2006-07	20756.00	In working condition	ICAR
Hot air oven	2006-07	5344.00	In working condition	ICAR
Hot plate	2007-08	14000.00	Out of order	ICAR
Glass distillation unit	2007-08	28000.00	In partially working condition	ICAR
Conductivity bridge	2007-08	10000.00	Out of order	ICAR
pH meter	2007-08	9563.00	Out of order	ICAR
Electronic balance	2007-08	12375.00	Out of order	ICAR
Grinder	2007-08	19500.00	In working condition	ICAR
Kjeldahl N analyser	2008-09	250474.00	In working condition	ICAR
Atomic absorption spectrophotometer	2012-13	944832.00	In working condition	ICAR
Mridaparikshak	2015-16	117450.00	Working	ICAR
PUSA STFR Meter	2017-18	86000.00	Working	ICAR
b. Farm machinery				
Tractor	01.04.1999	--	Out of order	ICAR
Power reaper	2011-12	85476.00	In working condition	ICAR
c.AV Aids				
LCD projector	2008-09	109000.00	Out of order	ICAR
Computer with accessories (2 Nos.)	2009 -10	49920.00	In working condition	ICAR

LCD TV	2010-11	13110.00	In working condition	ICAR
Digital Camera	2010-11	14790.00	Out of order	ICAR
Digital SLR Camera	2017-18	38359.00	In Working condition	ICAR
Laptop	2017-18	32989.00	In Working condition	ICAR
Tablet	2018-19	29590.00	In Working condition	ATMA
Computer	2017-18	35999.00	In Working condition	ICAR
Printer(all in one)	2017-18	9575.00	In Working condition	ICAR

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
TAB	22.01.2019	29590.00	Working	ICAR
brush cutter	26.3.2019	17378.80	Working	ICAR
Potato Digger (MOGA)	29.03.2019	17378.80	Working	ICAR
Power weeder (Shrachi)	29.03.2019	154600.00	Working	ICAR
Leveller blade	29.03.2019	81900.00	Working	ICAR
Tractor	25.02.2019	619054.00	Working	ICAR
Honda pump	28.01.2019	49999.00	Working	ICAR
Two wheel trolly	13..02.2019	150000	Working	ICAR
Hood regular	30.05.2019	3150.00	Working	ICAR
Cage wheel	03.06.2019	11400.00	Working	ICAR
Tractor hitch	26.07.2019	3100.00	Working	ICAR
New ABC (0.4 kg) type fire extinguisher	13.03.2020	23128.00	Working	ICAR
Rice transplanter Make GOMADHI , Model WBT-	16.03.2020	311359.00	Working	ICAR

4K				
Round Straw Baler Make GOMADHI Model AB1050	16.03.2020	377440.00	Not in used	ICAR
BMW furrow opener Make BMW Model BMW furrow opener	16.03.2020	45000.00	Working	ICAR
Multi crop planter Make National Agro industries Model NMCP4	16.03.2020	103900.00	Not in used	ICAR
Seed grading /fine cleaner machine	14.03.2020	614250.00	Not installed	ICAR
Parts of micro irrigation system	11.02.2020	40596.00	Working	ICAR
Parts of micro irrigation system	11.02.2020	36862.00	Working	ICAR
Parts of micro irrigation system (sprinkler)	11.02.2020	17378.00	Working	ICAR
VST Shakti MT171 DI Samrat High Trque 2W Mini tractor	31.01.2020	258300.00 .	Working	ICAR

1.8. Details SAC meeting* conducted in the year

Sl.No.	Date	Number of Participants	Salient Recommendations	Action taken	If not conducted, state reason
1.	30.03.2021	27	Annexure I		

** Salient recommendation of SAC in bullet form*
Attach a copy of SAC proceedings along with list of participants

2.a. District level data on agriculture, livestock and farming situation (2020)

Purba Bardhaman

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice production system Dairy –poultry production system Poultry Goatery Duckery Fishery Rice – potato-fodder- livestock production system Rice –vegetable-Rice production system Jute-rice production system Fish-duck-banana production system
2	Agro-climatic Zone	**1. New Alluvium** Average annual rainfall 1300-1600 mm, Soil type- sandy loam, clay and clay loam, Soil depth 4-6 ft with medium to good water holding capacity, **Neutral to acidic soil with good fertility.** **2. Old Alluvium** Average annual rainfall 1300-1500 mm, Soil type- sandy loam and clay loam Soil depth 4-6 ft with medium to good water holding capacity **Neutral to acidic soil with good fertility**
3	Agro ecological situation	**Agro ecological sub region 12.3 under the AES 12.0 (Eastern Plateau)** II. Moist and sub humid ecosystem with alluvial soil with LGP of 180-200 days covering the blocks of Burdwan (N), Burdwan (S), Kalna & Katwa, Main crops paddy, mustard, **sesame, potato, jute, vegetables etc. The area covers 517532 ha**

4	Soil type	**1.Gangetic alluvial – 206423 ha** Soil order is entisols. Sandy loam to clay loam, fine in texture, slightly acidic to neutral in reaction. Rich in potash and medium to rich in available plant nutrients. **2. Vindhya alluvial – 311000 ha** Soil order is entisol Sandy loam to clay loam, fine to moderate coarse in texture, acidic to neutral in reaction.
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Aman paddy – 32.73 Boro paddy – 26.95 Wheat – 21.99 Pulses – 8.80 Oilseeds – 10.01 Jute & other fibres ** - 18.7 lakh bales Potato – 212.49
6	Mean yearly temperature, rainfall, humidity of the district	Mean yearly temperature: Max – 31, Min – 18 Relative humidity : 76 Total rainfall: 1136 mm
7	Production of major livestock products like milk, egg, meat etc.	Milk : 464080 tonnes, 280 kg/year Egg: 2672.40 lakh egg, 85 no. eggs/year Meat : 4000 MT

Note: Please give recent data only

Paschim Bardhaman

Sl. no.	Item	Information
1	Major Farming system/enterprise	Rice production system Dairy –poultry production system Poultry Goatery Duckery Fishery Rice –vegetable-Rice production system
2	Agro-climatic Zone	**1. Red and Lateritic** Average annual rainfall 1100-1400 mm, Soil type- sandy loam, coarse in texture Undulating land with low soil depth, sometimes hard layer present in sub surface **Medium to highly acidic soil**

3	Agro ecological situation	**Agro ecological sub region 12.3 under the AES 12.0 (Eastern Plateau)** I Chhotonagpur Plateau and Garhjat hills, hot dry sub humid ecosystem with red & laterite soils and LGP 150-180 days covering the blocks of Durgapur & Asansol. Main crops are, paddy, mustard, vegetables, pulse etc. The area covers 186154 ha
4	Soil type	**1. Red and Lateritic – 186054 ha** Soil orders are mainly alfisol and ultisol. Coarse gritty soil blended with rock fragment, mainly acidic in nature, reddish in color due to high level of iron, low in nitrogen, calcium, phosphate and other plant nutrient.
5	Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others	Aman paddy – 26.83 Wheat – 21.99 Pulses – 7.92 Oilseeds – 8.04
6	Mean yearly temperature, rainfall, humidity of the district	Mean yearly temperature: Max – 33, Min – 15 Relative humidity : 69 Total rainfall: 1024 mm
7	Production of major livestock products like milk, egg, meat etc.	Data not available

Note: Please give recent data only

2.b. Details of operational area / villages (2021)

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	Durgapur	Kanksa	Keten , Palashboni, Payarigunj, Chuya, Shokna Shilampur Gangbil Natungram	Paddy, potato, mustard, sesame, lentil, vegetable, cattle, poultry, duck, goat, pig fish Kharif paddy, wheat, mustard, brinjal, cattle,	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Marginal soil • Limited water	• Integration of good agronomic practices • Creation of rainwater harvesting structures • Utilization of mine lift water for

				buffalo, pig, goat and poultry	resources for irrigation • Indiscriminate and inappropriate use of chemical fertilizer **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option**	irrigation • Providing quality seeds/planting materials • Diversification of land use • Soil health management like organic farming etc. • Livestock productivity improvement and health care • Efficient utilization of water bodies • Entrepreneurship development
		Andal	Moira, Madanpur, Baska, Pubra, Andal, Andal Gram, Battala, Dakshinkhanda, Sakra, Shrirampur, Damra Gram, Kajora Gram, Rajhat, Dignala.			•
		Ranigunj	Napur, Napur Gram, Chelod, Ballavpur, Belunia, Belunia Gram, Raghunathchak, Kankardanga			•
		Jamuria	Jamuria, Siddhapur, Baghdhia, Haripur, Barul, Chaktulshi, Sankhari, Nandi, Sahakhir, Berali, Patharchur, Shibpur, Bogra, Chakdola, Hijalgora, Jambad, Taltor,			•

			Parasia, Churulia, Satgram, Madantor, Charanpur, Birkulti, Morden Satgram, Panchachur, Damodarpur			
		Salanpur	Sidhabari			•
2	Burdwan North	Galsi-I	Bharatpur Jaguli para , Sillya, Ramgopalpur, Atpara, Raipur, Goligram, Kondaipur, Manikbazar-Jharul, Tildanga, Nurkona Nabakhanda, Bamunara, Fatepur, Puratangram, Ucchagram, Serorai, Chaktentul, Naskarbandh, Budbud,	Aus paddy, kharif paddy, jute, potato, mustard, vegetable cattle, poultry, Goat, broiler farming, fish	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed materials • High cost involvement for major crops • Indiscriminate and inappropriate use of chemical fertilizers • Low input of organics & biofertiliser **Lesser extent of crop diversification** **Low productivity of livestock & poultry** **Poor feed resources** ***Socio-economic*** • Lack of credit facilities • Inadequate house hold income generation	• Providing quality seeds/planting material • Diversification of land use • Entrepreneurship development • Organic farming • Health care • Improvement of women led vocations • Popularization of balanced feeding practices • Crop diversification
		Galsi-II	Garamba, Bhasapur, Pursora, Hitta, Bahirghanna, Taranagar, Sankrai, Sarul, Bhuri.			•

3.	Bardhaman Sadar	Aushgram-I	Dignagar, Woyarishpur, Alutia, Bannabagram, Dangpara,	Kharif paddy, Potato, lentil, mustard, til, fodder, cattle, goat, poultry, duck, fish	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Poor soil health • Limited water resources for irrigation • Indiscriminate and inappropriate use of chemical fertilizer **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option**	i. Integration of good agronomic practices ii.Providing quality seeds/planting materials iii.Diversification of land use iv.Restoration of soil health through organic manuring. v.Livestock productivity improvement and health care vi.Efficient utilization of water bodies vii.Entrepreneurship development viii. Promotion of efficient water use technology ix. technology showcasing
		Aushgram-II	Premganj, Abhirampur, Anandabazar, Bijoydanga, Chandipur,			
		Bhatar	Gholda, Gramdihi, Bamshor, Bijipur, Alinagar,			

			Natungram, Muraripur, Kapshor, Nasigram, Madhpur, Salun, Bonpas, Palar, Narayanpur, Balsidanga, Erachia, Kubachpur, Polsona, Bijaypur, Kherur, Sahebganj, Kashipur, Nurpur,			
5.	Kalna	Kalna	Bhagnapara, Kalna, Durgapur, Nandai, Deulpara, Diara, Mirzapur, Balia, Anukhal, Rangpara, Goara, Anakul,	Paddy, jute, onion, fodder, mustard, banana, potato, mango, cattle, sheep, goat, pig, poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Nutrient Deficient soil • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices**	Integration of good agronomic practices ii.Production of quality seeds/planting materials in PPP mode iii.Diversification of land use iv.Restoration of soil health through organic manuring. v.Livestock productivity improvement and health care vi.Efficient utilization of water bodies vii.Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology

					Very restricted livelihood option **Less of post harvest operation**	
		Purbasthali- I	Kuricha, Golahat, Betpukur, Chakbamungoria,Shyampur, Parulia, kuldanga, Bhaturia, Minapur, Ramchandrapur, Dogachia, Chupi, Biswarambha, Banki,Bhatsala, Rajapur, Chaitpur, Maganpur, Moshipur,	Paddy, jute, onion, fodder, mustard, banana, potato, mango, cattle, sheep, goat, pig, poultry	***Bio-physical*** **Low productivity of all major crops** • Non-availability of quality seed / planting materials • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides • Very low ground water table **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** • Lack of awareness regarding good agronomic /husbandry practices • Very restricted livelihood option • Less of post harvest operation	Integration of good agronomic practices ii. Production of quality seeds/planting materials in PPP mode iii. Diversification of land use iv. Restoration of soil health through organic manuring. v. Livestock productivity improvement and health care vi. Efficient utilization of water bodies vii. Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology of jute and other crops
		Memari-I & II	Satchachia, Debipur, Khanro, Harindanga	Paddy, onion, fodder, mustard,	***Bio-physical*** **Low productivity of**	Integration of good agronomic practices

				banana, potato, mango, cattle, sheep, goat, pig, poultry	**all major crops** • Non-availability of quality seed / planting materials • Nutrient Deficient soil • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** • Lack of credit facilities • Lack of awareness regarding good agronomic /husbandry practices • Very restricted livelihood option • Less of post harvest operation	ii. Production of quality seeds/planting materials in PPP mode iii. Diversification of land use iv. Restoration of soil health through organic manuring. v. Livestock productivity improvement and health care vi. Efficient utilization of water bodies vii. Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology
		Montheswar	Bhelia, Bheti, Sutra	Paddy, onion, fodder, mustard, banana, potato,	***Bio-physical*** **Low productivity of all major crops**	Integration of good agronomic practices ii.Production of

				mango, cattle, sheep, goat, pig, poultry	• Non-availability of quality seed / planting materials • Nutrient Deficient soil • Indiscriminate and inappropriate use of chemical fertilizer/ pesticides **Inadequate descriptive/prolific breed of livestock** **Poor feed resources** **Inadequate health care** ***Socio- economic*** **Lack of credit facilities** **Lack of awareness regarding good agronomic /husbandry practices** **Very restricted livelihood option** **Less of post harvest operation**	quality seeds/planting materials in PPP mode iii.Diversification of land use iv.Restoration of soil health through organic manuring. v.Livestock productivity improvement and health care vi.Efficient utilization of water bodies vii.Entrepreneurship development viii. Promotion of efficient water use technology ix. Promotion of Improved post harvest technology

2. c. Details of village adoption programme:

Name of the villages adopted by D. Ghorai for its development and action plan (2021)

Name of village	Block	Action taken for development

Ajay Palli	Kanksa	• Training programmes on different aspects of agriculture • FLD on jute • FLD on paddy seed production • Awareness camp on agriculture • Field day and exposure visit of farmers • Activities on DFI • Awareness and capacity building on vermicompost preparation

2.1 Priority thrust areas

S. No	Thrust area
1.	Integration of good agronomic practices for cultivation of field and vegetable crops for vertical agricultural growth
2.	Production of quality seeds/planting materials for major agricultural crops like rice, jute, mustard and vegetable and fruit crops
3.	Diversification of land use through cultivation of vegetables and other horticultural crops
4.	Soil health management through organic farming, balanced and integrated fertilization etc.
5.	Livestock productivity improvement and health care
6.	Efficient utilization of water bodies through composite fish culture and improved management practices
7.	Efficient resource utilization and output maximization through integrated farming system approach
8.	Entrepreneurship development for family income generation
9.	Empowerment of women through post harvest operation
10.	Strengthening of animal feed resources through fodder production/ quality fodder seed production
11.	Use of ICT in agriculture in area of climate based agro advice, disease diagnosis, SMS service
12.	Doubling of farmers income by 2022

3. TECHNICAL ACHIEVEMENTS

3. A. Details of target and achievement of mandatory activities by KVK during the year

OFT												FLD										
No. of technologies tested:												No. of technologies demonstrated:										
Number of OFTs		Number of farmers										Number of FLDs		Number of farmers								
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement							
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
5	**5**	**40**	**29**	**13**	**0**	**0**	**0**	**0**	**29**	**13**	**42**	**10**	**9**	**210**	**96**	**27**	**0**	**0**	**73**	**0**	**16**	**27**	**19**

																				9		**6**

Training												Extension activities											
Number of Courses		Number of Participants										Number of activities		Number of participants									
Target	Achievement	Target	Achievement									Target	Achievement	Target	Achievement								
			SC		ST		Others		Total						SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T				M	F	M	F	M	F	M	F	T
68	**46**	**1930**	505	463	0	0	0	0	505	463	963	**368**		**63598**									

Impact of capacity building											Impact of Extension activities										
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									Number of Participants attended		Number of participants got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)								
Target	Achievement	SC		ST		Others		Total			Target	Achievement	SC		ST		Others		Total		
		M	F	M	F	M	F	M	F	T			M	F	M	F	M	F	M	F	T

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
MTU 7029(F)	130q	Guava sapling	830 pc
Hasant(F)	12q	Citrus sapling	800 pc
		Mango sapling	1500pc

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement

* Give no. only in case of fish fingerlings

Publication by KVKs

Item	Number	No. circulated	No. of Research papers in NAAS rated Journals	Highest NAAS rating of any publication	Average NAAS rating of the publications	Details of awarded publication, if any	Details of Award given to the publication
Research paper							
Seminar/conference/ symposia papers							
Books							
Bulletins	3	100					
News letter							
Popular Articles							
Book Chapter							
Extension Pamphlets/ literature							
Technical reports							
Electronic Publication (CD/DVD etc)							
TOTAL							

1 Achievements on technologies assessed and refined

OFT 1:

Sl no.	Particulars	Details
1	**Season**	Summer 21
2	**Title of the OFT**	Assessment of different production system of jute for system productivity and profitability under medium upland situation of Purba Bardhaman
3	**Thematic Area**	Integrated crop management
4	**Problem Diagnosed**	Low system yield coupled with high cost of cultivation leading to low profitability of jute
5	**Important Cause**	Single cropping of jute leading to low profitability owing to high cost of production
6	**Production System**	Jute based production system
7	**Micro farming System**	Sole cropping of jute

8	**Technology for Testing**	Intercropping and mixed cropping with jute using mechanical means
9	**Existing Practice**	Sole cropping of jute with broadcasting
10	**Hypothesis**	Intercropping and mixed cropping with jute using mechanical means should lead to higher system productivity and enhanced profitability
11	**Objective(s)**	1. Improve system productivity of jute cropping system 2. Enhanced profitability using mechanical means
12	**Treatments:**	**Farmers Practice (FP):** Sole cropping of jute with broadcasting **Technology option-I (TO-I):** Mixed cropping of Jute + Red/green amaranthus with broadcasting **Technology option-II (TO-II):** Mixed cropping of Jute + Red/green amaranthuswith line sowing of jute using seed drill **Technology option-III (TO-III):** Jute + Greengram intercropping (3:2) using seed drill + mixed cropping of Red/green amaranthus **Technology option-IV (TO-IV):** Jute + Red/green amaranthusmixedcropping with line sowing
13	**Critical Inputs**	Seed, seed drills, nail weeder
14	**Unit Size**	0.13 ha
15	**No of Replications**	4
16	**Unit Cost**	--
17	**Total Cost**	Rs. 10000
18	**Monitoring Indicator**	System productivity, benefit:cost ratio
19	**Source of Technology**	ICAR-CRIJAF, Barrackpore

Results:

Thematic area: Integrated crop management

Problem definition: Low return from cultivation of jute pertaining to single cropping

Technology assessed: Intercropping/mixed cropping

Table: Performance of jute under intercropping/mixed cropping

Technology option	No. of trials	System yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmers' practice: Sole cropping of jute with broadcasting	5	28.6	72500	108680	36180	1.50
Technology - 1: Mixed cropping of Jute + Red/green		32.2 + 13.3 =	78000	133665	55665	1.71

amaranthus with broadcasting		41.5				
Technology - 2: Jute + Greengram intercropping (3:2) using seed drill + mixed cropping of Red/green amaranthus		23.6 + 4.9 + 13.8 = 38.3	76200	130730	54530	1.72
Technology - 3: Jute + Amaranthus mixed croppingwith line sowing		34.3+ 15.9 = 50.2	74500	143800	69300	1.93
LSD at 5%		3.5				

Results:

Results indicated that intercropping or mixed cropping with red/green amaranthus is profitable for jute than single cultivation. System yield was significantly higher in case of Jute mixed cropping with green amaranthus either through broadcasting or line sowing. Also profitability was highest in case of TO 3 (1.93 B:C ratio). In case of Jute + Greengram intercropping with amaranthus mixed cropping (3:2) system productivity was higher than FP. The fact that line sowing of jute is more efficient than broadcasting was evident from significantly higher yield in TO3 as compared to TO1 and FP.

OFT 2 (2nd year):

Sl no.	Particulars	Details
1	**Season**	Kharif 2020
2	**Title of the OFT**	**Assessment of efficacy of different herbicides on weed control of transplanted rice during kharif season under medium upland situation of Burdwan district**
3	**Thematic Area**	Weed management
4	**Problem Diagnosed**	Infestation of weed leading to reduction in yield
5	**Important Cause**	Improper land preparation coupled with inefficient weed control
6	**Production System**	Rice based production system
7	**Micro farming System**	Transplanted rice farming under medium upland situation
8	**Technology for Testing**	Application of selective herbicides
9	**Existing Practice**	Non application on inefficient application of herbicide

10	**Hypothesis**	Application of improved herbicide for efficient control of weed should lead to augmented productivity
11	**Objective(s)**	Increasing productivity of paddy
12	**Treatments:**	**Farmers Practice (FP):** Application of butachlor 50% EC @ 1.25 kg. a.i./ha **Technology option-I (TO-I):**Application of pyrazosulfuron ethyl 10 % WP @ 160 g a.i./ ha within 4 DAT **Technology option-II (TO-II):**Application of Bispyribac sodium 10% SC @25 g a.i./ ha 15-20 DAT. **Technology option-III (TO-III):**Application of penoxulum 21.7 % SC @ 20 g a.i./ ha at 15-20 DAT
13	**Critical Inputs**	pyrazosulfuron ethyl 10 % WP, Bispyribac sodium 10% SC, penoxulum 21.7 % SC
14	**Unit Size**	0.13 ha
15	**No of Replications**	10
16	**Unit Cost**	Rs. 1500
17	**Total Cost**	Rs. 15000
18	**Monitoring Indicator**	Yield, weed density, Weed biomass
19	**Source of Technology**	BCKV, Mohanpur

Results:

Table: Performance of rice (Cv. MTU 7029) under different seedbed management practices

Technology option	No. of trials	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
Farmers' practice (FP): Application of butachlor 50% EC @ 1.25 kg. a.i./ha	10	49.4	62500	88920	26420	1.42
TO 1: Application of pyrazosulfuron ethyl 10 % WP @ 160 g a.i./ ha within 4 DAT		52.6	61500	94680	33180	1.54
TO2: Application of Bispyribac sodium 10% SC @25 g a.i./ ha 15-20 DAT.		54.1	62800	97380	34580	1.55
TO3: Application of penoxulum 21.7 % SC @ 20 g a.i./ ha at 15-20 DAT		56.9	63500	102420	38920	1.61
CD at 5%		1.37				

Table : Weed parameters

Technology	Weed density (no m^{-2})	Weed dry biomass (g m^{-2})

option	25 DAT			50 DAT			50 DAT		
	Grasses	**Sedges**	**Broad leaves**	**Grasses**	**Sedges**	**Broad leaves**	**Grasses**	**Sedges**	**Broad leaves**
FP	11.33	7.23	5.34	16.11	15.15	11.21	10.67	10.19	10.28
TO 1	9.25	8.03	6.02	12.31	11.39	9.74	5.37	6.62	6.24
TO2	14.21	11.25	9.21	10.47	8.32	6.28	7.24	7.32	5.03
TO3	14.24	11.37	8.78	9.34	6.34	4.42	4.42	4.98	2.39
CD at 5%	**NS**	**NS**	**NS**	**1.03**	**0.64**	**0.32**	**0.87**	**0.45**	**1.19**

Grasses: *Cynodon dactylon* (L), *Digitaria sanguinalis* (L.), *Echinochloa colonum (*L), *Echinochloa crus-galli* (L.), *Chloris barbata*
Sedges: *Cyperus rotundus* L, *Cyperus diformis* L, *Cyperus iria* L, *Cyperus esculentus* L
Broad leaves: *Eclipta alba, Sesbania aculeata, Phyllanthus niruri* L, *Ammania baccifera* L, *Commelina benghalensis* L.

Results:

Results indicated that application of penoxulum resulted in significant yield increment over application of other herbicides. Application of pre emergence herbicide of pyrazosulfuron ethyl and post emergence herbicide of bispyribac sodium resulted in at par productivity while application of only butachlor as pre emergence herbicide effected lowest yield and return. As for weed density and weed biomass, penoxulum and bispyribac sodium were found most effective in controlling all kinds of weeds, viz., grasses, sedges and broad leaves. It was found out that Penoxulum was the most efficient haerbicide as far as weed control in paddy is concerned.

OFT-3

1.	Title of On farm Trial	Varietal trial of Hybrid tomato
2.	Problem diagnosed	Abhilash is being cultivated for several years; Yield of Tomato is not upto its potential due to multiple disease infestations like leaf curl, wilt and blight.
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers Practice (FP):** Abhilash **Technology option-I (TO-I):** Arka Samrat **Technology option-II (TO-II):** Arka Rakshak
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	ICAR-IIHR, Bangaluru
5.	Production system and thematic area	Paddy- vegetable cropping system

6.	Performance of the Technology with performance indicators	Rakshak and Arka Samrat both showed better results in terms of yield and resistance to leaf curl virus. Round shape of Arka Samrat fruits fetched better maket price.
7.	Final recommendation for micro level situation	Arka Rakshak and Arka Samrat both showed promising results and can be recommended according to market preference
8.	Constraints identified and feedback for research	Non availability of seeds in the local market
9.	Process of farmers participation and their reaction	Demonstration, group discussion and field visit

Thematic area: Nutrient management.

Problem definition: Abhilash is being cultivated for several years; Yield of Tomato is not upto its potential due to multiple disease infestations like leaf curl, wilt and blight.

Technology assessed: Arka Rakshak is a multiple disease resistance hybrid that has been tried for better yield.

Table:

Technology option	No. of trials	Yield component			Disease incidence (leaf curl) (%)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
FP: Abhilash	10				18	290	139500	320000	180500	2.29
TO 1: Arka Samrat	10				7	340	137000	408000	271000	2.97
TO 2: Arka Rakshak	10				3	350	137000	386000	249000	2.81

Results: Arka Rakshak and Arka Samrat both showed better results in terms of yield and resistance to leaf curl virus. Round shape of Arka Samrat fruits fetched better maket price.

OFT-4

1.	Title of On farm Trial	Assessment of sulphur and boron application on curd quality and yield in cauliflower
2.	Problem diagnosed	Browning and hollow stem is common problem in cauliflower associated with lower yield with lack of flavor
3.	Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)	**Farmers Practice (FP):** Recommended dose of NPK **Technology option-I (TO-I):** Recommended dose of NPK+ Sulphur 20 Kg/ha as basal **Technology option-II (TO-II):** Recommended dose of NPK+ Sulphur 20 Kg/ha as basal+ 10 kg borax/ha as basal **Technology option-III (TO-III):** Recommended dose of NPK+ Sulphur 20 Kg/ha as basal+ Foliar spray of boron (3 times)
4.	Source of Technology (ICAR/ AICRP/SAU/other, please specify)	TNAU
5.	Production system and thematic area	Vegetable-Jute-rice cropping system
6.	Performance of the Technology with performance indicators	Results indicated that Technology option-IIwas most effective in controlling of browning and hollow stem in cauliflower .Better yield and B:C ratio are also supportive with the fact.
7.	Final recommendation for micro level situation	In those areas where every year cauliflower is cultivated and it is associated with deficiency symptoms of boron, the TO II, i.e. basal application of boron and sulphur is recommended.
8.	Constraints identified and feedback for research	Application of boron in soil every year may be harmful and its effects need to be evaluated.
9.	Process of farmers participation and their reaction	Demonstration, group discussion and training

Thematic area: Nursery management

Problem definition: Results indicated that Technology option-IIwas most effective in controlling of browning and hollow stem in cauliflower. Better yield (with compact curd) and B:C ratio are also supportive with the fact.

Table:

Technology	No. of	Yield component	% of	Yield	Cost of	Gross return	Net return	BC ratio

option	trials	No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)	curd affected with browning / hollow stem	(q/ha)	cultivation (Rs./ha)	(Rs/ha)	(Rs./ha)	
Farmers Practice (FP): Recommended dose of NPK	10				8.5	175	122000	280000	158000	2.29
Technology option-I (TO-I): Recommended dose of NPK+ Sulphur 20 Kg/ha as basal	10				8.5	188	127000	300100	173100	2.36
Technology option-II (TO-II): Recommended dose of NPK+ Sulphur 20 Kg/ha as basal+ 10 kg borax/ha as basal	10				1.5	210	132000	334000	202000	2.53
Technology option-III (TO-III): Recommended dose of NPK+					4	200	130,000	314000	184000	2.42

Sulphur 20 Kg/ha as basal+ Foliar spray of boron (3 times)										

Results: Results indicated that Technology option-IIwas most effective in controlling of browning and hollow stem in cauliflower. Better yield (with compact curd) and B:C ratio are also supportive with the fact.

OFT 5

Sl no.	Particulars	Details
1	**Season**	Rabi
2	**Title of the OFT**	Nutrient management practice in marigold
3	**Thematic Area**	Production technology
4	**Problem diagnosed**	There are two basic concerns, one is productivity of the flower in spite of good fertilizer dose and another is quality of cut flower (reddishness in tips of flower petals) in the district of Burdwan.
5	**Important Cause**	Lower yield and quality due to deficiency in secondary and micronutrients
6	**Production system**	Flower- vegetable cropping system
7	**Micro farming system**	Irrigated Medium Land
8	**Technology for Testing**	Nutrients like Calcium , zinc and micronutrients
9	**Existing Practice**	Application of only N,P and K
10	**Hypothesis**	Application of secondary and micronutrients may improve quality and yield
11	**Objective(s)**	Significant yield improvement as well as increase in income
12	**Treatments:**	**Farmers Practice (FP):** 150:80:80 (recommended dose of fertilizers) **Technology option-I (TO-I):** FP + Foliar Sprays (3 nos) of chellated zinc **Technology option-II (TO-II):** FP+ Soil application (3 times) of nutrient combinations of Ca, B, Mg and Zn)
13	**Critical Inputs**	Nutrients
14	**Unit Size**	0.05 ha
15	**No of Replications**	7

16	**Unit Cost**	2000
17	**Total Cost**	Rs.14000
18	**Monitoring Indicator**	Yield, flower quality, cost benefit ratio
19	**Source of Technology (ICAR/ AICRP/ SAU/ Other, please specify)**	ICAR IIHR

Table:

Technology option	No. of trials	Yield component			No. of plant showing deficiency symtops (%) (Redishness of flower tips)	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross return (Rs/ha)	Net return (Rs./ha)	BC ratio
		No. of effective tillers/hill	No. of spikelet per panicle	Test wt. (100 grain wt.)						
(FP): 150:80:80 (recommended dose of fertilizers)	12				16.20	128	148,000	305000	177,000	2.06
(TO-I): FP + Foliar Sprays (3 nos) of chellated zinc	12				4.10	142	153000	352000	199500	2.30
TO-II): FP+ Soil application (3 times) of nutrient combinations of Ca, B, Mg and Zn)	12				8.60	148	155000	360000	207000	2.32

Results: Results indicated that Technology option-II was most effective method to improve quality of cut flower (for correction of reddishness in tips of flower petals). Though Better yield and B:C ratio was obtained by soil application of nutrient combination along with recommended fertilizers.

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year

Sl. No.	Crop	Thematic area	Technology Demonstrated with detailed treatments	Area (ha)		No. of farmers/ demonstration									Reasons for shortfall in achievement
				Proposed	Actual	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
1	Jute	Production technology	Improved production technology	10	10	25	0	0	0	0	0	25	0	25	
2	Paddy	Production tecgnology	Seed production	10	10	25	0	0	0	0	0	25	0	25	
3	Chickpea	Nutrient management on improved variety	Improved variety (NBEG 45) + Application of sulfur @ 30 kg/ha along with soil test basis NPK+ aqualcal (micronutrient mixture of Fe, Zn, B, Ca, Mo) spray 2 times pre and post flowering at an interval of 10 days	10	10	0	0	0	0	37	0	37	0	37	
4	Lentil	Nutrient management on improved variety	Improved variety (HUL 57) + Application of sulfur @ 20 kg/ha along with soil test basis NPK+ aqualcal (micronutrient mixture of Fe, Zn, B, Ca, Mo) spray 2 times pre and post flowering at an interval of 10 days	10	10	0	0	0	0	36	0	36	0	36	
5	Onion	Introduction in Kharif season	Agrifound Dark Red	3	3	9	11	0	0	0	0	9	11	20	
6	Banana (2020-21)	Tissue cultured plantlets & Improve variety	Grand Naine	1	1	9	4	0	0	0	0	9	4	13	
7	Banana (2021-22)	Tissue cultured plantlets & Improve variety	Grand Naine	1	1	10	5	0	0	0	0	10	5	15	

8	Tomato	Improve variety	Arka Samrat	1	1	11	4	0	0	0	0	11	4	15	
9	Cauliflower	Reduction of seedling mortality and labour	Pluck tray &Seedling Transplanting	3	3	7	3	0	0	0	0	7	3	10	
TOTAL				49	49	96	27	0	0	73	0	169	27	196	

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil (Kg/ha)			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P_2O_5	K_2O					
Onion	Kharif	Irrigated	Loam	230	50	180	Vegetables	28/6/2021 – 15/7/21	Dec.01, 2021-Dec.10, 2021	920 mm	
Banana (2020-21)	Kharif	Irrigated	Loam	230	40	200	Vegetables	20/6/2020 – 1/7/20	15-30/07/21	1005 mm	
Banana (2021-22)	Kharif	Irrigated	Loam	230	40	200	Vegetables	26/6/2021 – 10/7/21	Not yet started	1005 mm	
Toamato	Rabi	Irrigated	Loam	230	60	185	Vegetables	10/09/2021	Not yet completed	960 mm	
Cauliflower (Seedling Transplanting)	Rabi	Irrigated	Loam	230	60	185	Vegetables	15/9/21	Dec, 2021	850 mm	

In both the Tables, information of same crop should be provided. For example, if in Table 3.2A crops are mentioned as a,b,c,d etc., in the table for Details of farming situation, the same crop should be mentioned in the identical sequence.

Performance of FLD

Oilseeds:

Frontline demonstrations on oilseed crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Total															

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
		Total															

Pulses

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Chickpea (Rabi 2020-21)	Nutrient management on improved variety	Improved variety (NBEG 45) + Application of sulfur @ 30 kg/ha along with soil test basis NPK+ aqualcal (micronutrient mixture of Fe, Zn, B, Ca, Mo) spray 2 times pre and post flowering at an interval of 10 days	37	10	10.61	8.30	28	23500	53050	29550	2.58	21600	41500	19900	1.92
Lentil	Nutrient management on improved variety	Improved variety (HUL 57) + Application of sulfur @ 20 kg/ha along with soil test basis NPK+ aqualcal (micronutrient mixture of Fe, Zn, B, Ca, Mo) spray 2 times pre and post flowering at an interval of 10 days	36	10	10.86	9.10	19.3	20500	54300	33800	2.65	18500	45500	27000	2.46
	Total														

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

Other crops

Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	Area (ha)	Yield (q/ha)		% change in yield	Other parameters		*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Jute	Production technology	Improved production technology	25	10	36.4	31.2	16.67	--	--	71500	137300	65800	1.92	71800	114780	42980	1.60
Paddy (Kharif)	Production tecgnology	Seed production	25	10	61.67	54.84		--	--	62000	111006	49006	1.79	63500	95970	32470	1.51
Onion	Introduction in Kharif season	Agrifound Dark Red	20	3	162	No existing variety	-	-	-	135000	275000	140000	2.04	-	-	-	-
Banana (2020-21)	Improved variety	Grand Naine	13	1	620	470	31.9	-	-	135000	345000	210000	2.56	115000	225000	110000	1.95
Banana (2021-22)	Improved variety	Grand Naine	15	1	Standing crop, result awaited												
Tomato	Improved variety	Arka Samrat	15	1	330	275	20	5% Leaf curl virus	17% Leaf curl virus	142000	380000	238000	2.67	150000	320000	170000	2.13
Cauliflower	Seedling Transplanting	Use of pluck tray and transplanter	10	2	200	180	10	15% Seedling mortality	8%	125,000	320000	195000	2.56	140000	290000	150000	2.07

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy																	
Cow																	

Buffalo																		
Poultry																		
Rabbitry																		
Pigerry																		
Sheep and goat																		
Duckery																		
Others (pl.specify)																		
Total																		

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Common carps																	
Mussels																	
Ornamental fishes																	
Others (pl.specify)																	
	Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Enterprise development															

Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl.specify)																
Total																

* Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women					
Pregnant women					
Adolescent Girl					
Other women					
Children					
Neonatal					
Infants					

Farm implements and machinery

Name of the implement	Crop	Name of the technology demonstrated	No. of Farmer	Area (ha)	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit)			
					Demonstration	Check									

*** Economics to be worked out based on total cost of production per unit area and not on critical inputs alone.**
**** BCR= GROSS RETURN/GROSS COST**

Demonstration details on crop hybrids

Crop	Name of the Hybrid	No. of farmers	Area (ha)	Yield (kg/ha) / major parameter	Economics (Rs./ha)

Cereals				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl.specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl.specify)										
Total										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl.specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato	Arka	15	1	330	275	20	142000	380000	238000	2.67

	Samrat									
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl.specify)										
Total										
Commercial crops										
Cotton										
Coconut										
Others (Pl.specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl.specify)										
Total										

Technical Feedback on the demonstrated technologies

Sl. No	Crop	Feed Back
1	Jute	Cost of production is reduced by some margin and quality of fibre has enhanced. Seed drill for jute should be made available in local market
2	Paddy	SRI principles should be followed in seed production as the produce is of better quality thereby fetching higher price
3	Onion	Seed of Agrifound Dark Red is not easily available in market
4	Banana	Only variety available in tissue cultured banana is Grand Naine that's need to be replaced with some other varieties also.
5	Cauliflower (Seedling Transplanting)	For efficient operation of manual transplanter significant amount of practice is needed.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
1.	Field days	01.07.21	1	33	Field day was organized at Mirjapur
		01.07.21	1	35	Field day was organized at Golahat
		24.09.21	1	20	Training/Field visit on banana
		06.10.21	1	16	Training/Field visit on banana
		03.11.21	1	13	Training/Field visit on onion
2.	Farmers Training				
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2020 and Rabi 2021:

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha) w.r.to			Name of Variety + Technology demonstrated	Number of farmers	Area in ha	Yield obtained (q/ha)			Yield gap minimized (%)		
				District yield (D)	State yield (S)	Potential yield (P)				Max.	Min.	Av.	D	S	P
1.	Lentil	Ranjan	8.3	+50	+70	-320	HUL 57 Sulfur and micronutrient	37	10	12.35	9.17	10.41	100	100	72.5

							nutrition								
2.	Chickpea	Mahamaya	8.1	+40	+80	-430	NBEG 45 Sulfur and micronutrient nutrition	35	10	11.8	9.3	10.61	100	100	46

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
1	HUL 57 Sulfur and micronutrient nutrition	18500	36400	17900	1.97	19250	41640	22390	2.16
2	NBEG 45 Sulfur and micronutrient nutrition	17750	33200	15450	1.87	19500	42440	22940	2.18

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained (kg)	Produce sold (Kg/household)	Selling Rate (Rs/Kg)	Produce used for own sowing (Kg)	Produce distributed to other farmers (Kg)	Purpose for which income gained was utilized	Employment Generated (Mandays/house hold)

1	Lentil HUL 57	21100	100 kg	42	1200	1800	Household	0.8
2	Chickpea NBEG 45	15240	120 kg	45	750	450	Household activities	1.5

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any
	Lentil; HUL 57 Application of sulfur @ 20 kg/ha along with soil test basis NPK+ aqualcal (micronutrient mixture of Fe, Zn, B, Ca, Mo) spray 2 times pre and post flowering at an interval of 10 days	Suitable for rice – pulse/oilseed /rice, rice-fallow, Rice-lentil-sesame	Very good and better yield than existing variety	Seed price affordable; sulphur application is costly and not very much affordable by marginal farmers	Nil	Yes. Overall 66% farmers would continue cultivation using the technology	Nil
	Chickpea;NBEG 45 Application of sulfur @ 30 kg/ha along with soil test basis NPK+ aqualcal (micronutrient mixture of Fe, Zn, B, Ca, Mo) spray 2 times pre and post flowering at an	Suitable for rice – pulse/oilseed /rice, rice-fallow, Rice-lentil-sesame	Very good variety with bold seed and better yield than existing variety	Seed price affordable, sulphur application is costly and not very much affordable by marginal farmers	Nil	Yes. Overall 66% farmers would continue cultivation using the technology.	Nil

	interval of 10 days						

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback
Yield	Good	Better than existing variety	Acceptable

F. Extension activities under FLD conducted:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended
1	**Field day**	**04.01.21 at Mobarakgunj**	**22**
2	**Field day**	**20.01.21 at Jamalpur**	**21**

G. Sequential good quality photographs (as per crop stages i.e. growth & development)

H. Farmers' training photographs

I. Quality ActionPhotographs of field visits/field days and technology demonstrated.

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Lentil	i) Critical input		82730	
	ii) TA/DA/POL etc. for monitoring		5500	
	iii) Extension Activities (Field day)		1000	
	iv) Publication materials			
	v) Contingency			
	Total	90000	89180	820
Chickpea	i) Critical input		83450	
	ii) TA/DA/POL etc. for monitoring		5500	
	iii) Extension Activities (Field day)		1000	
	iv) Publication materials			
	v) Contingency			
	Total	90000	89950	50

3.3 Achievements on Training (Including the sponsored and FLD training programmes):

A) Farmers and farm women (on campus)

B) Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies	3				**33**	**15**	**48**				**33**	**15**	**48**
Cropping Systems													
Crop Diversification													
Integrated Farming													
Water management													
Seed production													
Nursery management													
Integrated Crop Management													
Fodder production													
Production of organic inputs	3				**23**	**27**	**50**				**23**	**27**	**50**
Others, (cultivation of crops)	2				**17**	**23**	**40**				**17**	**23**	**40**

B) Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	4				43	37	80				43	37	80
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques	1				9	21	30				9	21	30
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													

B) Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency	2				**4**	**36**	**40**				4	**36**	**40**
Soil and Water Testing													
Others, if any	1				**13**	**17**	**30**				**13**	**17**	**30**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming													

B) Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management	2				**31**	**29**	**60**				**31**	**29**	**60**
Integrated Disease Management	3				12	18	30				12	18	30
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													

B) Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**21**	**0**	**0**	**0**	**185**	**223**	**408**	**0**	**0**	**0**	**185**	**223**	**408**

B) Rural Youth (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	2				4	16	20				4	16	20
Bee-keeping	3				34	16	50				34	16	50
Integrated farming													
Seed production	2				**23**	**17**	**40**				**23**	**17**	**40**
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Enterprise development													
Para vets													
Para extension workers													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology	1				18	12	30				18	12	30
Tailoring and Stitching													
Rural Crafts	2				0	50	50				0	50	50
TOTAL	**10**	**0**	**0**	**0**	**79**	**111**	**190**	**0**	**0**	**0**	**79**	**111**	**190**

C) Extension Personnel (on campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2				**18**	**22**	**40**				**18**	**22**	**40**
Value addition													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
TOTAL	2				**18**	**22**	**40**				**18**	**22**	**40**

D) Farmers and farm women (off campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems	2				16	4	20				16	4	20
Crop Diversification													
Integrated Farming	2				65	0	65				65	0	65
Water management													
Seed production													
Nursery management													
Integrated Crop Management	2				43	17	60				43	17	60
Fodder production													
Production of organic inputs													
Others, (cultivation of crops)	1				7	18	25				7	18	25
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment	1				16	14	30				16	14	30
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	1				0	10	10				0	10	10
Training and Pruning													
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency													
Soil and Water Testing													
Others, if any	1				**28**	**2**	**30**				**28**	**2**	**30**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any Goat farming													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
VII. Plant Protection													
Integrated Pest Management	2				29	31	60				29	31	60
Integrated Disease Management	1				19	11	30				19	11	30
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**13**	**0**	**0**	**0**	**223**	**107**	**303**	**0**	**0**	**0**	**223**	**107**	**330**

E) RURAL YOUTH (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL													

F) Extension Personnel (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
TOTAL													

G) Consolidated table (ON and OFF Campus)

i. Farmers& Farm Women

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
I. Crop Production													
Weed Management													
Resource Conservation Technologies	3				33	15	48				33	15	48
Cropping Systems	2				16	4	20				16	4	20
Crop Diversification													
Integrated Farming	2				65	0	65				65	0	65
Water management													
Seed production													
Nursery management													
Integrated Crop Management	2				43	17	60				43	17	60
Fodder production													
Production of organic inputs	3				23	27	50				23	27	50
Others, (cultivation of crops)	3				24	41	65				24	41	65
TOTAL	15				204	104	308				204	104	308
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment	1				16	14	30				16	14	30
Production of low volume and high value crops													
Off-season vegetables													
Nursery raising													
Exotic vegetables like Broccoli													
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)	5				43	47	90				43	47	90
TOTAL	6				59	61	120				59	61	120
b) Fruits													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Training and Pruning													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques	1	0	0	0	9	21	30	0	0	0	9	21	30
Others, if any(INM)													
TOTAL	1	0	0	0	9	21	30	0	0	0	9	21	30
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
TOTAL													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
f) Spices													
Production and Management technology													
Processing and value addition													
Others, if any													
TOTAL													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
TOTAL													
III. Soil Health and Fertility Management													
Soil fertility management													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Soil and Water Conservation													
Integrated Nutrient Management													
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency	2	0	0	0	4	36	40	0	0	0	4	36	40
Soil and Water Testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others, if any	2	0	0	0	41	19	60	0	0	0	41	19	60
TOTAL	**4**	**0**	**0**	**0**	**45**	**55**	**100**	**0**	**0**	**0**	**45**	**55**	**100**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management													
Piggery Management													
Rabbit Management													
Disease Management													
Feed management													
Production of quality animal products													
Others, if any (Goat farming)													
TOTAL													
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Capacity building													
Women and child care													
Others, if any													
TOTAL													
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology													
Others, if any													
TOTAL													
VII. Plant Protection													
Integrated Pest Management	4	0	0	0	60	60	120	0	0	0	60	60	120
Integrated Disease Management	4	0	0	0	31	29	60	0	0	0	31	29	60
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
TOTAL	**8**	**0**	**0**	**0**	**91**	**89**	**153**	**0**	**0**	**0**	**91**	**89**	**180**
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
TOTAL													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
TOTAL													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
TOTAL													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
TOTAL													
XII. Others (Pl. specify)													
TOTAL	**34**	**0**	**0**	**0**	**408**	**330**	**738**	**0**	**0**	**0**	**408**	**330**	**738**

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	2	0	0	0	4	16	20	0	0	0	4	16	20
Bee-keeping	3	0	0	0	34	16	50	0	0	0	34	16	50
Integrated farming													
Seed production													
Production of organic inputs													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching													
Rural Crafts	2	0	0	0	0	50	50	0	0	0	0	50	50
Enterprise development													
Others if any (ICT application in agriculture)	1	0	0	0	18	12	30	0	0	0	18	12	30
TOTAL	**10**	**0**	**0**	**0**	**79**	**111**	**190**	**0**	**0**	**0**	**79**	**111**	**190**

iii. Extension Personnel (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Productivity enhancement in field crops	2	0	0	0	18	22	40	0	0	0	18	22	40
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology													
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													

Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others if any													
TOTAL	**2**	**0**	**0**	**0**	**18**	**22**	**40**	**0**	**0**	**0**	**18**	**22**	**40**

Please furnish the details of training programmes as Annexure in the proforma given below

Discipline	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agril	PF	Rice cultivation through SRI	1	**On**	10	0	10	10	0	10
Agril	PF	Sustainable crop production through conservation agriculture in jute based cropping system	1	**On**	6	4	10	6	4	10
Agril	RY	Seed production of different field crops for income enhancement in COVID19 situation (RY	1	**On**	5	5	10	5	5	10
Agril	PF	Need for composting and vermicompost preparation at farmers level for maintaining soil health and income generation	1	**On**	2	8	10	2	8	10
Agril	PF	Role of nutrient vis-à-vis crop production and climate change	1	**On**	5	5	10	5	5	10
Agril	EF	Climate change and effect on agriculture and contingency planning in view of climate change (EF)	1	**On**	0	10	10	0	10	10
Agril	PF	Nutrition in jute based cropping system	1	**On**	0	30	30	0	30	30
Hort	PF	Vocational	7	**On**		20	20		20	20

		training on Jute handicrafts and kantha stich (7 days)								
Hort	PF	Seed production of Vegetable crops	1	**On**		10	10		10	10
Protection	RY	Oyster mushroom cultivation (2 days duration)	2	**On**	8	12	20	8	12	20
Protection	RY	Oyster mushroom cultivation (2 days duration)	2	**On**	0	20	20	0	20	20
Protection	PF	Bee keeping	1	**On**	7	3	10	7	3	10
Protection	PF	Bee keeping	1	**On**	2	8	10	2	8	10
Protection	PF	Disease management in Mustard	1	**Off**	5	5	10	5	5	10
Protection	PF	Disease management in Cole crops	1	**Off**	5	5	10	5	5	10
Protection	PF	Disease management in Tomato	1	**Off**	6	24	30	6	24	30
Agril	PF	Vermicompost production for restoration of soil health	1	**On**	8	22	30	8	22	30
Agril	PF	Role of micronutrient in crop production	1	**On**	0	10	10	0	10	10
Agril	PF	Improved production technology of jute	1	**Off**	4	6	10	4	6	10
Agril	PF	Improved production technology of jute	1	**Off**	8	2	10	8	2	10
Hort	PF	Post harvest management of horticultural crops	1	Off	8	2	10	8	2	10
Hort	RY	Seed production of vegetable crops	1	On	0	10	10	0	10	10
Agril	PF	Rice cultivation through SRI in jute-rice cropping system	1	**On**	6	4	10	6	4	10
Agril	PF	Microbiome for food and environment	1	**Off**	8	2	10	8	2	10

		security (75th commemoration of independence)								
Agril	PF	Role of nutrient in crop production in jute based cropping system	1	**Online**	0	10	10	0	10	10
Agril	PF	Integrated farming system for enhancing farmers income (75th commemoration of independence)	1	**Off**	6	4	10	6	4	10
Agril	PF	Integrated farming system for enhancing farmers income (75th commemoration of independence)	1	**Off**	17	13	30	17	13	30
Hort	PF	Improved cultivation of tissue culture banana	1	Online	18	11	29	18	11	29
Hort	PF	Improved production technology of kharif onion in jute based cropping system	1	Online	16	9	25	16	9	25
Hort	PF	Layout and Management of Orchards	1	Online	23	12	35	23	12	35
Hort	PF	Micro irrigation systems in jute based cropping system	1	Online	24	8	32	24	8	32
Protection	PF	Integrated Pest Management in Integrated Farming System	1	**Online**	19	14	33	19	14	33
Protection	PF	Integrated pest management in aman paddy	1	Online	18	9	27	18	9	27
Protection	PF	Integrated pest management in aman paddy	1	Online	12	8	20	12	8	20
Protection	PF	Integrated pest management in boro paddy	1	Online	13	7	20	13	7	20

Protection	PF	Integrated pest management in boro paddy	1	Online	14	8	22	14	8	22
Agril	PF	Organic Farming Awareness campaign in crops, fruits and vegetables(75th commemoration of independence)	1	**Online**	17	13	30	17	13	30
Agril	PF	Processing and value addition of jute (75th commemoration of independence)	1	**On campus**	32	12	44	32	12	44
Agril	PF	Need for composting and different types of compost preparation	3	**Off**	15	12	27	15	12	27
Agril	PF	Need for composting and different types of compost preparation	3	**On**	18	6	24	18	6	24
Agril	PF	Vermicompost production at farmers level	3	**On**	29	12	41	29	12	41
Agril	PF	Climate change and effect on agriculture	3	**On**	15	10	25	15	10	25
Agril	PF	Improved production technology of mustard	3	**Off**	9	6	15	9	6	15
Agril	PF	Improved production technology of groundnut	3	**Off**	23	11	34	23	11	34
Hort	PF	Plant propagation techniques of sub-tropical fruit crops	3	**On**	17	13	30	17	13	30
Hort	PF	Cultivation techniques of solanaceous vegetable in jute based cropping system	3	**On**	28	2	30	28	2	30
Hort	PF	Improved production technology of potato in jute	3	**Off**	13	17	30	13	17	30

		based cropping system								
Protection	PF	Disease Management in Rice in Jute Based Farming System (3 days duration training)	3	**Off**	21	9	30	21	9	30
Protection	PF	Disease management in Brinjal in Integrated Farming System (1 day duration training)	3	**Off**	18	12	30	18	12	30
Protection	PF	**Insect Pest Management in cucubits**	3	**On**	22	8	30	22	8	30

H) Vocational training programmes for Rural Youth

a) Details of training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Rural Handicrafts		Training on Kantha Stitch and Jute Handicrafts preparation	7	0	20	20				

*training title should specify the major technology /skill transferred

b) Details of participation

Thematic Area	**No. of Courses**	**No. of Participants**									**Grand Total**		
		Other			**SC**			**ST**					
		M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Crop production and management													
Commercial floriculture													
Commercial fruit production													
Commercial vegetable production													
Integrated crop													

management													
Organic farming													
Other													
Total													
Post harvest technology and value addition													
Value addition													
Other													
Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing													
Piggery													
Poultry farming													
Other													
Total													
Income generation activities													
Vermicomposting													
Production of bioagents, biopesticides,													
biofertilizers etc.													
Repair and maintenance of farm machinery &imlements													
Rural Crafts	1	0	0	0	0	20	20	0	0	0	0	20	20
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para-vet training													
Other													
Total													
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total	1	0	0	0	0	20	20	0	0	0	0	20	20

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl.No	Title	Thematic area	Month	Duration (days)	Client	No. of courses	No. of participants	Sponsoring Agency
					PF/RY/EF			

b) Details of participation

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Crop production and management													
Increasing production and productivity of crops													
Commercial production of vegetables													
Production and value addition													
Fruit Plants													
Ornamental plants													
Spices crops													
Soil health and fertility management													
Production of Inputs at site													
Methods of protective cultivation													
Other													
Total													
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and implements													
Other													
Total													
Livestock and													

fisheries													
Livestock production and management													
Animal Nutrition Management													
Animal Disease Management													
Fisheries Nutrition													
Fisheries Management													
Other													
Total													
Home Science													
Household nutritional security													
Economic empowerment of women													
Drudgery reduction of women													
Other													
Total													
Agricultural Extension													
Capacity Building and Group Dynamics													
Other													
Total													
Grant Total													

3.4. A. Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	Male	Female	Total	Male	Female	Total
Field Day	4	80	54	134	25	2	0	2	82	54	136
Kisan Mela											
Kisan Ghosthi											
Exhibition											
Film Show	25	387	286	673	90	0	0	0	387	286	673
Method Demonstrations											
Farmers Seminar											
Workshop											
Group meetings	3	41	0	41	--	0	0	0	41	0	41
Lectures delivered as resource persons	2	26	14	40	--	0	0	0	26	14	40
Advisory Services	54	165006	29653	194717	35	0	0	0	165064	29653	194717

		4									
Scientific visit to farmers field	29	244	104	348	--	0	0	0	244	104	348
Farmers visit to KVK											
Diagnostic visits											
Exposure visits											
Ex-trainees Sammelan											
Soil health Camp	2	49	8	57	--	0	0	0	49	8	57
Animal Health Camp											
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
MahilaMandals Conveners meetings											
Celebration of important days (specify)	6	858	264	1122	75	46	0	46	904	264	1168
Sankalp Se Siddhi											
Swatchta Hi Sewa	2	258	124	382	75	0	0	0	258	124	382
MahilaKisan Divas	1	0	35	35	100	0	0	0	0	35	35
Any Other (Specify)											
Total	**128**	**167077**	**305422**	**197549**	**-**	**48**	**0**	**48**	**167055**	**30542**	**197597**

B. Other Extension activities

Nature of Extension Activity	No. of activities
Newspaper coverage	1
Radio talks	
TV talks	
Popular articles	1
Extension Literature	5
Other, if any	

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Quantity of seed (q)	Value (Rs)	No. of farmers involved in village seed production	Number of farmers to whom seed provided			
					SC	ST	Other	Total

					M	F	M	F	M	F	M	F
Total												

KVK farm

Crop	Variety	Quantity of seed (q)	Value (Rs)	Number of farmers to whom seed provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Paddy	MTU 7029(F)	130q	715000	520						520	
Paddy	Hasant(F)	12q	50000	48						48	
Paddy	RajendraMasuri(grain)	10q	10000					2		2	
Okra	Kashi Kranti	0.2	10000.00	0	0	0	0	0	0	0	0
Grand Total		152q	775000	568				2		570	

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Number of farmers to whom planting material provided							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower											
Cabbage											
Tomato											
Brinjal											
Chilli											
Onion											
Others											
Fruits											
Mango	Langra, Himsagar, Mallika and amrapali	500 pc	25000	100						100	
Guava	Baruipur	775 pc	31000	155						155	
Lime	Kagji	790 pc	31600	158						158	
Papaya											
Banana											
Others											
Ornamental plants											
Medicinal and											

Aromatic											
Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Others, pl.specify											
Total		2065pc	87600	413						413	

Production of Bio-Products

Name of product	Quantity Kg	Value (Rs.)	No. of Farmers benefitted							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizers vermicompost	4735 kg	44685	200				39		239	
vermiworm	20278 pc	4739	80				8		88	
Bio-pesticide										
Bio-fungicide										
Bio-agents										
Others, please specify.										
Total		49424	280				47		327	

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers benefitted							
				SC		ST		Other		Total	
				M	F	M	F	M	F	M	F
Dairy animals											
Cows											
Buffaloes											
Calves											
Others (Pl. specify)											
Small ruminants											
Sheep											
Goat											
Other, please specify											
Poultry	RIR	36 no(47 kg)	8800								
Poultry egg	RIR	147 no	882								
poultry	Kadaknath	32no(33kg)	16070								
Poultry egg	Kadaknath	10pc	350								
Broilers											
Layers											

Duals (broiler and layer)											
Japanese Quail											
Turkey											
Emu											
Ducks	Khaki campbell	29 no(29 kg)	6670								
Others (Pl. specify)											
Piggery											
Piglet											
Hog											
Others (Pl. specify)											
Fisheries											
Indian carp											
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (Pl. specify)											
Grand Total			32772								

3.5. b. Seed Hub Programme-*"Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India"*

i) Name of Seed Hub Centre:

Name of Nodal Officer :	
Address :	
e-mail :	
Phone No. : Mobile :	

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2018						
Rabi 2018-19						
Summer/Spring 2020						
Kharif 2020						
Rabi 2020-2020						

iii) Financial Progress

Fund received (2016-17, 2017-18 and 2018-19)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		

2016-17				
2017-18				
2018-19				
2019-20				
2020-21				

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

3.6. (A) Literature Developed/Published (with full title, author & reference)

Item	Title	Author's name	Number	Circulation
Research paper				
Seminar/conference/ symposia papers				
Training Manual	Seed Production of different crops in jute based cropping system	D. Ghorai, Md. Azizur Rahman, M.S. Behera & Gouranga Kar		
	Need for soil testing and soil test based fertilizer application vis-à-vis jute based farming systems	D. Ghorai, Md. Azizur Rahman, M.S. Behera & Gouranga Kar		
	Bee-keeping	Sk. Md. Azizur Rahman, Sandipan Garai, Dipankar Ghorai, Subrata Sarkar, Soumya Sarathi Kundu, M.S. Behera and Gouranga Kar.		
	Major Diseases of Mustard and its Management.	Sk. Md. Azizur Rahman, Sandipan Garai, Dipankar Ghorai, Subrata Sarkar, Soumya Sarathi Kundu, M.S. Behera and Gouranga Kar.		
	Major Diseases of Cole Crops and its Management.	Sk. Md. Azizur Rahman, Sandipan Garai, Dipankar Ghorai, Subrata Sarkar, Soumya Sarathi Kundu, M.S.		

		Behera and Gouranga Kar.		
	Scientific cultivation of different types of mushrooms	Sk. Md. Azizur Rahman, Sandipan Garai, Dipankar Ghorai, Subrata Sarkar, Soumya Sarathi Kundu, M.S. Behera and Gouranga Kar.		
Bulletins	Compendium on advanced farming technologies for doubling farmers income	D. Ghorai, S. Sarkar, Sk. Md. Azizur Rahman, M.S. Behera, F. H. Rahman & Gouranga Kar		100
	Successful Farmers – Tales of KVK Burdwan.	D. Ghorai, S. Sarkar, S. Garai, C.K. Jana, G. Ziauddin, P. Saikia, M.S. Singh, Sk. Md. Azizur Rahman, M.S. Behera, F.H. Rahman & Gouranga Kar.		100
	Scientific Bee Rearing.	Sk. Md. Azizur Rahman, Sandipan Garai, Sanu Kumar Saha, Subhasish Pramanik, Dipankar Ghorai, Subrata Sarkar, Madhusudan Behera, Gouranga Kar and Subrata Kumar Roy.		100
News letter				
Popular Articles	**Kadaknath murgir pratipalan.**	Garai S, Rahaman S.M.A, Behera M.S and Kar G.		
Book Chapter				
Extension Pamphlets/ literature	Go-khadya hisabe gaimuger chas.	Garai S. Rahman Sk.Md.A., Behera M.S. and Kar G.(2021)		
	Dhaner pradhan kayekti rog o' tar pratikar	Garai S., Rahman Sk.Md.A. Behera M.S. and Kar G.(2021)		
	Kadaknath murgir pratipalan	Garai S., Rahman Sk.Md.A. Samajdar T. Behera M.S. and Kar G.(2021)		
	Khaki Campbell hanser palan	Garai S., Rahman Sk.Md.A., Behera M.S. and Kar G. (2021)		
	Moumachhi palan	Garai S., Rahman Sk Md.A., Behera M.S. and Kar G. (2021)		

Technical reports				
Electronic Publication (CD/DVD etc)				
TOTAL				

N.B.: Please enclose a copy of each. In case of literature prepared in local language please indicate the title in English

(B) Details of HRD programmes undergone by KVK personnel:

Sl. No.	Name of programme	Name of course	Name of KVK personnel and designation	Date and Duration	Organized by
1.	Strategies for climate risk management and resilient farming (Online training)	--	Dr. D. Ghorai, SMS (Agril.)	20.09.21 – 24.09.21	ICAR-CRIDA and MANAGE, Hyderabad
2.	Webinar	Bee-keeping – as economic enterprise and role of honeybees in increasing agricultural production.	Sandipan Garai, T-6	20.05.2021	KVK Burdwan.
3.	Live Webinar	Application of nano liquid urea fertilizer.	Sandipan Garai, T-6	27.05.2021	IFFCO.
4.	Live Webinar	Clean milk production.	Sandipan Garai, T-6	01.06.2021	KVK North 24 Pgs, ICAR-CRIJAF, Barrackpore.
5.	Webinar	Celebration of Bharat Ka Amrut Mahotsav	Sandipan Garai, T-6	03.06.2021, 04.06.2021 And 05.06.2021. (3 days)	ICAR-CRIJAF, Barrackpore.
6.	Webinar	World Environment Day.	Sandipan Garai, T-6	05.06.2021	KVK Burdwan.
7.	Online capacitybuilding programme	Strengthening of Makhana value chain in Bihar.		16.06.2021 to 20.06.2021. (5 days)	BPSAC, Purnea, Bihar and sponsored by MANAGE, Hyderabad.
	Live Webinar	Balanced use fertilizers.	Sandipan Garai, T-6	18.06.2021	KVK Burdwan.
	Online training programme for farmers	Integrated Pest Management in Integrated Farming System.	Sandipan Garai, T-6	31.07.2021	KVK Burdwan.
	Webinar	Cultivation of different types of fodder crops for animal nutrition and better milk production	Sandipan Garai, T-6	31.07.2021	KVK Burdwan in collaboration with Regional Fodder

					Station, Kalyani.
	Webcasting	Webcasting of PM interface meeting and Farmers-Scientists Interaction programme	Sandipan Garai, T-6	28.09.2021	P.M.O, New Delhi and KVK Burdwan.
	Webinar on the occasion of Bharat ka Amrut Mohotsav	Poultry Production and Management	Sandipan Garai, T-6	06.10.2021	KVK Burdwan.
	Webinar on the occasion of Bharat ka Amrut Mohotsav	Artificial insemination of domestic animals.	Sandipan Garai, T-6	08.11.2021	KVK Burdwan.
	Webinar on the occasion of Bharat ka Amrut Mohotsav	Poultry Health	Sandipan Garai, T-6	20.11.2021	KVK Burdwan.
	Webinar on the occasion of Bharat ka Amrut Mohotsav	Duck Farming	Sandipan Garai, T-6	04.12.2021	KVK Burdwan.

3.7. Success stories/Case studies, if any (two or three pages write-up on 1-2best case(s) with suitable action photographs)

Success Story on Chickpea

Specific Technology:-Sulfur and micronutrient nutrition on improved variety.

Name of KVK	KVK Burdwan
Crop and variety	Chickpea; NBEG 45
Name of farmer & address	Shyam Baran Samanta, Abhirampur, Ausgram II, Purba Bardhaman
Details of technology demonstrated	Sulfur and micronutrient nutrition on improved variety
Success point	The crop was sown in line. IN farmer's practice, sulfur and micronutrient is not used. As advised, Mr. Samanta applied 30 kg sulfur per ha and made two foliar sprays of micronutrient on improved variety of NBEG 45 instead of low yielding Mahamaya variety. NPK was used on soil test basis at the rate 15:40:20.
Farmer feedback	There was less pest incidence due to line sowing
Yield (q/ha) - Potential yield of variety - District average (Previous year) - State average (Previous year)	 12.4 7.8 7.6

Performance of technology vis-à-vis Local check (Increase in productivity and returns)

UsedPractice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	**7.52**	17750	33200	15450	1.87
Demonstration	**10.04**	19500	42440	22940	2.18
% Increase in yield	**33.5%**				

Success Story on Lentil

Specific Technology:-Sulfur and micronutrient nutrition on improved variety.

Name of KVK	KVK Burdwan
Crop and variety	Lentil, HUL 57
Name of farmer & address	Sakila Begum, Jamalpur, Purba Bardhaman
Details of technology demonstrated	Sulfur and micronutrient nutrition on improved variety
Success point	IN farmer's practice, sulfur and micronutrient is not used. As advised, Mrs. Sakila applied 30 kg sulfur per ha and made two foliar sprays of micronutrient on improved variety of HUL 57 instead of low yielding Ranjan variety. NPK was used on soil test basis at the rate 15:40:20.
Farmer feedback	There was less grey mold. Variety is very good.
Yield (q/ha) - Potential yield of variety - District average (Previous year) - State average (Previous year)	 11.5 7.8 7.6

Performance of technology vis-à-vis Local check (Increase in productivity and returns)

UsedPractice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	**10.01**	18500	36400	17900	1.97
Demonstration	**11.94**	19250	41640	22390	2.16
% Increase in yield	**19.3%**				

3.8. Give details of innovative methodology or innovative technology of Transfer of Technology developed and used during the year

Sl. No.	Name/ Title of the technology	Name/ Details of the Innovator(s)	Brief details of the Innovative Technology

3.9. a. Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs)

Sl. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK

b. Give details of organic farming practiced by the farmer

Sl. No.	Crop / Enterprise	Area (ha)/ No. covered	Production	No. of farmers involved	Market available (Y/N)

3.10. Indicate the specific training need analysis tools/methodology followed by KVKs

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed

3.11. a. Details of equipment available in Soiland Water Testing Laboratory

Sl. No	Name of the Equipment	Qty.
1	Flame photometer	One
2	Spectrophotometer	One
3	Shaker	One
4	Hot air oven	One
5	Hot plate	One
6	Glass distillation unit	One
7	Conductivity bridge	One
8	pH meter	One
9	Electronic balance	Two
20	Grinder	One
11	Kjeldahl N analyser	One
12	Mridaparikshak	One
13	Atomic absorption spectrophotometer	One
14	PUSA STFR Meter	One

3.11.b. Details of samples analyzed so far :

Number of soil samples analyzed			No. of Farmers	No. of Villages	Amount realized (inRs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
56	0	56	215	18	--

3.11.c. Details on World Soil Day

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	Awarenes s programm e on soil	85	-	-	41	41

	health through webinar					

3.12. Activities of rain water harvesting structure and micro irrigation system

No of training programme	No of demonstrations	No of plant material produced	Visit by the farmers	Visit by the officials
2	3	3000 fruit saplings	60	5

3.13. Technology week celebration

Type of activities	No. of activities	Number of participants	Related crop/livestock technology

3.14. RAWE/ FETprogramme - is KVK involved? (Y/N)

No of student trained	No of days stayed

ARS trainees trained	No of days stayed

3.15. List of VIP visitors (Minister/ MP/MLA/DM/VC/ZilaSabhadipati/Other Head of Organization/Foreigners)

Date	Name of the person	Purpose of visit

4. IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Improved technology of jute production	134	64	Rs. 42000/ha	Rs. 66000/ha
Line sowing of jute	45	56	Rs. 41000/ha	Rs. 64000/ha
Modified SRI	345	82	Rs. 32000/ha	Rs. 50000/ha
Improved production technology of lentil	456	63	Rs. 27000/ha	Rs. 34000/ha
Improved production technology of chickpea	145	54	Rs. 19500/ha	Rs. 30000/ha
Improved production technology of mustard	502	78	Rs. 24000/ha	Rs. 37000/ha
Improved production technology of sesame	156	67	Rs. 22000/ha	Rs. 41000/ha

Improved production technology of groundnut	108	62	Rs. 41000/ha	Rs. 76000/ha
Improved production technology of greengram	75	52	Rs. 17000/ha	Rs. 32500/ha
Integrated farming system	21	52	Rs. 43000/ha	Rs. 134000/ha
Seed production of paddy	50	86	Rs. 33000/ha	Rs. 63000/ha
Vermicompost production	78	87	--	Rs. 5000/bag of 12x6x2 ft

NB: Should be based on actual study, questionnaire/group discussion etc. with ex-participants

4.2. Cases of large scale adoption

(Please furnish detailed information for each case)

Horizontal spread of technologies	
Technology	Horizontal spread
Sulfur and boron nutrition in mustard	The soils of the district are largely deficient in two essential nutrients required for mustard, namely, Sulfur and Boron. KVK after successfully establishing the fact that supplemenatation of sulphur and boron can augment productivity significantly through OFT, applied the technology in CFLD on mustard Since 2016-17. Farmers were greatly encouraged by the results and as a result of which the technology has spreaded to 10 blocks of the district, namely Memari, Raina, Khandaghosh, Kalna, Purbasthali I, Purbasthali I I , AusgramI, Ausgram II, Galsi I and Galsi II.
Cultivation of kharif onion	Farmers in this region were usually engaged in cultivation of paddy in kharif season which provided on an average profit of Rs. 28000/- to 35000/- per ha. Where as onion in kharif season transported from outsides of the states leading to very high market price. Agrifound Dark Red a variety suitable for kharif season was introduced through demonstration in kharif season for the last few years, starting from 2017-18. It showed encouraging result in terms of profit for the farmers and as a result the technology has spreaded to 4 blocks of the district, namely Kalna I & II, Purbasthali I & II, along with different pockets of other blocks like Kaksa, Ausgram, Galsi I and Galsi II.

Give information in the same format as in case studies

4.3.Details of impact analysis of KVK activities carried out during the reporting period

Sl. No.	Brief details of technology	Impact of the technology in subjective terms	Impact of the technology in objective terms

4.4. Details of innovations recorded by the KVK

Thematic area	
Name of the Innovation	
Details of Innovator	
Back ground of innovation	
Technology details	
Practical utility of innovation	

4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	
Name & complete address of the entrepreneur	
Role of KVK with quantitative data support:	
Timeline of the entrepreneurship development	
Technical Components of the Enterprise	
Status of entrepreneur before and after the enterprise	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	
Horizontal spread of enterprise	

4.6. Any other initiative taken by the KVK

DAESI Course

In Purba and Paschim Bardhaman there are about 2500 practicing agri-input dealers, who are the prime source of farm information to the farming community. The first contact point for majority of farmers is the agri-input dealer. While purchasing different inputs required for farming operations, the farmer naturally tries to find out from the input dealer about the usage of inputs, both in terms of quality and quantity. However, most of these input dealers do not have formal agricultural education. With the objective of shaping these input dealers as para-extension professionals by providing requisite knowledge, one self-financed course of 40 input dealers was sanctioned by SAMETI and the batch was first started in August, 2018.

- Following courses were conducted under **DAESI 2nd batch from Jan, 2021.**

Sl No.	Topic of the class, Exposure visit and Examination	Date

1	Exposure visit- KVK, Nadia	08.01.21
2	Jute retting pond based farming system	13.01.21
3	Seed certification, storage and maintenance.	13.01.21
4	**4th Quiz test**	15.01.21
5	Improved production technology of Jute	19.01.21
6	Weed management technology of jute and allied fibres	19.01.21
7	Role of microfinance in rural development	22.01.21
8	Identification of Insect & Disease symptom in the KVK field.	22.01.21
9	Revision class	27.01.21
10	**Final Examination**	13.09.21

5. LINKAGES

5.1. Functional linkage with different organizations

Name of organization	Nature of linkage
SAMETI, Narendrapur, ATMA Purba Bardhaman	DAESI course
ICAR-Indian Institute of Water Managemnt , Bhubaneswas	HRD training of KVK official
ICAR-Central Institute of Subtropical Horticulture, Malda	HRD training of KVK official
Directorate of Agriculture, Govt. of W.B.	▪ Input supply for Seed village program ▪ Supply of new variety pulse and oil seed
Animal Resource Development Department, Govt. of W.B.	• Vaccination camp
Office of Assistant Director of Fisheries, Meen Bhawan, Burdwan	• Fish fingerlings supply • Training on fish culture, management • Awareness camp on subsidized loan scheme, fisherman identity card, Formation of Self help group, Fish production group, cooperative societies etc.
ATMA	• Governing body and management committee member • Collaborative programmes:- **Trainings – 4 nos.** **Demonstration – 2 nos**. **Trials - 02 nos.**
RKVY	• Governing body and management committee member
NREGS	Convergence programmes were • Training of NREGA technical staff on Vermi-compost, Rainwater harvesting, horticulture, Composite fish culture, Integrated farming • Field demonstrations by KVKs on NREGA works on IMC culture, Duck rearing, integrated farming (Fish-livestock- horticulture)

	• Skill development of NREGA workers under SGSY through Preparation of jute handicrafts, kantha-stitch.
National Seed Corporation, State Seed Corporation,	Foundation and certified paddy and potato, pulses and oil seed etc.
Bidhan Chandra Krishi Viswavidyalaya, Mohanpur	• Time to time planning execution • Planting material collection • Bio fertilizers collection • Resource persons
Vishwabharati University	• Trainings / demonstrations
West Bengal University of Animal and Fishery Science	Feed and milk sample analysis
Regional Station for Forage Production Demonstration, Kalyani	Training and fodder seed collection
CIFA, Kalyani	Exposure visit
State Agricultural Management Extension Training Institute, Narendrapur	DAESI programme
NABARD, CBI, SBI & RRBs ,Burdwan Region	Farmers; club, Credit facility for farmers
NGOs like Men at Work, Ujjiban, SSSNS, Meghdhoot, Mangal Chandi Self help group	Farmers' tour , Training etc

5.2. List of special programmes undertaken during 2021by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NABARD/NHM/NFDB/Other Agencies **(information of previous years should not be provided)**

a) Programmes for infrastructure development

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)

(b) Programme for other activities (training, FLD,OFT, Mela, Exhibition etc.)

Name of the programme/scheme	Purpose of programme	Date/ Month of initiation	Funding agency	Amount (Rs.)
Fodder demonstration on 1. Maize (Var. J-1006)- 30 kits (each of 5 kg) 2. Ricebean (Var. Bidhan -2) – 20 kits (each of 5 kg)	Fodder demonstration with improved package of practices for enhancement of livestock production especially milk production.	July, 2021	Regional Fodder Station, M/o Fisheries, Animal Husbandry & Dairying, GOI, Kalyani, Nadia.	Free allotment to KVK Burdwan

A) Activities conducted under Institute SCSP fund of ICAR-CRIJAF

Sl. No.	Event	Location	Total no of Farmers	Input	Outcome
1	Training & distribution programme on jute based farming system for SC farmers (under Institute SCSP Fund) (Green Gram, RIR Chicks)	Total 03 nos. of villages under Aushgram-2, Galsi-1, Galsi-2 blocks	30	Greengram: 100 kg Okra: 16 kg RIR Chicks: 750 nos.	1. Green gram productivity ranged between 8.6q – 10.1q per ha 2. Additional income generated in the range Rs. 2500 – 3500 from rearing of RIR chicks
2	Distribution of fruit plants for SC farmers (under Institute SCSP Fund)	Total 08 nos. of villages under Aushgram-1, Galsi-1 blocks	38	407 nos.	Homestead plantation
3	Distribution of Okra Seed for SC farmers (under Institute SCSP Fund)	Total 01 no of village under Aushgram-1 block	10	16 kg	Okra productivity ranged from 8.5 – 9.7 ton per ha
4	Distribution of Groundnut Sees for SC farmers (under Institute SCSP Fund)	Total 02 nos. of villages under Galsi-2, Jamalpur blocks	20	300 kg	Productivity ranged from 22.5 – 29 q per ha
5	Distribution of jute seeds for SC farmers (under Institute SCSP Fund)	Total 01 no of village under Kanksa block	17	60 kg	1. Productivity ranged from 28 – 33.4 q per ha 2. Income per ha ranged between Rs. 55000 – Rs. 85000
6	Distribution of pesticides for SC farmers (under Institute SCSP Fund)	Total 01 no of village under Galsi-1 block	10	76 Packs	-
7	Training programme on Integrated jute based farming system for SC farmers (under Institute SCSP Fund)	Total 09 nos. of villages under Aushgram-1, Aushgram-2, Galsi-1, Galsi-2, Kanksa, Kalna-1 blocks	30		Five of the farmers have developed jute based IFS in an area of 1 – 2 acre in the block of Kalna
8	Distribution programme of PADDY SEED for SC farmers (under Institute SCSP Fund)	Total 130 nos. of villages under Aushgram-1, Aushgram-2, Burdwan-1, Galsi-1, Galsi-2, Indpur, Jamalpur, Kanksa, Purbasthali-1, Purbasthali-2, Raina-2 blocks	960	12 ton	Productivity ranged from 52 – 58 q per ha
9	Distribution programme of Dhaincha Seed for SC farmers (under Institute SCSP Fund)	Total 28 nos. of villages under Ausgram-1, Bardhaman-1, Galsi-1, Kanksa, Purbasthali-1, Raina-2 blocks	50	200 kg	Reduced cost of fertilizers to the tune of Rs. 1000 – Rs. 1500 per ha

10	Distribution programme of CRIJAF SONA for SC farmers (under Institute SCSP Fund)	Total 54 nos. of villages under Purbasthali-2 block	100	1000 kg	Enhanced quality of jute fibres by two grades, there by generating additional income of Rs. 350 – Rs. 550 per quintal
11	Distribution programme of Vegetable Seed for SC farmers (under Institute SCSP Fund)	Total 184 nos. of villages under Ausgram-1, Ausgram-2, Bhatar, Burdwan-1, Chhatna, Dubrajpur, Galsi-1, Galsi-2, Ilambazar, Jamalpur, Kalna-1, Kalna-2, Kanksa, Katwa-1, Katwa-2, Ketugram, Khandaghosh, Purbasthali-1, Purbasthali-2, Raina-2 blocks	1112	1420 Packs	Homestead year round kitchen garden has been done by all beneficiaries, thereby increasing nutritional securities

B) Activities conducted under Institute TSP fund of ICAR-CRIJAF

Sl. No	Event	Location	Total no of Beneficiaries	Amount	Outcome
1	Training on Nutrient Management of crops in Jute based farming system under TSP programme (Institute TSP Fund)	Total 09 nos. of villages under Ausgram-1, Galsi-2 blocks	30	-	Trainees are presently using INM and soil test based fertilizer application in crops like paddy, onion, potato and vegetables under jute based farming system.
2	Paddy Seed distribution under Institute TSP Fund	Total 118 nos. of villages under Ausgram-1, Chhatna, Galsi-1, Galsi-2, Indpur, Jamalpur, Kalna-1, Kanksa, Manteswar, Onda, Purbasthali-1, Raina-1, Taldangra blocks	1120	14000 kg	Productivity ranged from 48 – 56 q per ha.

3	Vegetable Seed distribution under Institute TSP Fund	Total 83 nos. of villages under Arrah, Ausgram-1, Burdwan-1, Bankura, Chhatna, Dangardih, Dubrajpur, Durgapur, Gangajalghati, Hura, Ilambazar, Jorehira, Kalabani, Kalna-1, Kanksa, Kashipur, Manbazar, Manbazar-2, Manteswar, Palshara, Pargapur, Purbasthali-1, Raina-2, Ranibandh, Saltora, Tiluri blocks	535	1000 Packs	Homestead year round kitchen garden has been done by all beneficiaries, thereby increasing nutritional securities.

C) Activities conducted under ATMA, Purba and Paschim Bardhaman

A) Activity: Developing of Integrated farming System unit in KVK Farm (2020-21).

Sl. No	Sub-activity	Expenditure (Rs.)
1.	Excavation of Pond for integrated farming system	59472.00
2.	Construction of Poultry unit	28950.00
3.	Fish fingerling production	39780.00
4.	Fencing of the unit	9975.00
Total		138177.00

OUTCOME:
1) IMC Culture has been taken up in excavated pond
2) Papaya trees are planted in bund area generating income of Rs. 5000.00

B) Activity: Making of Vermicompost unit in KVK Farm (2020-21).

Sl. No	Sub-activity	Expenditure (Rs.)
1.	Making of Vermicompost unit	47820.00
Total		47820.00

OUTCOME:
1) One unit of 200 sqft has been constructed as a part of fibre based IFS
2) Production of vermicompost has been taken up with expected production of 4 tons per year

C) **Activity: Distribution of Bee-hives with live bees to the farmers and farm women of Paschim Bardhaman district for rearing of Apiary unit (2020-21)**:

Sl. No	Sub-activity	No. of input	Expenditure (Rs.)
1.	Distribution of Bee-hives	19 nos.	94250.00
2.	Rearing of Apiary unit in KVK Farm	06 nos.	

Total	94250.00

OUTCOME:
1) Four farmers have started rearing of honey bee in larger scale
2) Bee keeping unit have been kept as a part of IFS

D) Production of Vermicompost and rearing of poultry birds in IFS along with plantation of trees and demo unit of Kadaknath & RIR poultry. (2021-22).

Sl.No.	Activity	Expenditure
01.	Vermicompost and rearing of poultry birds along with plantation of trees	1,39,500.00
02.	Demo unit of Kadaknath & RIR poultry	73,000.00

OUTCOME:
1) The IFS demonstration unit has been restructured generating additional income of Rs. 30000.00 per year.
2) Demonstration on Kadaknath and RIR poultry has resulted in augmented nutritional security for beneficiaries and generating additional income of Rs. 10000.00 / per year

E) Strengthening of IFS demonstration unit of KVK

Sl.No.	Activity	Expenditure
01.	Demonstration unit of Dragon Fruit	52000.00
02.	Development of mango nursery	70000.00
03.	Demonstration on vegetable production using poly mulching	18054.00
04.	Distribution of bee keeping unit	100000.00
05.	Demonstration on mushroom production	7500.00

OUTCOME:
1) Dragon fruit unit has been established and used for demonstration
2) Grafted saplings have been produced and distributed under different activities of SCSP programme.
3) Poly mulching for brinjal, cauliflower etc. has been done as part of IFS and is being demonstrated to the farmers.
4) Four of the beneficiaries are now rearing honey bee in bigger scale.
5) Demonstration on mushroom production has resulted in augmented nutritional security for beneficiaries and generating additional income in the range Rs. 400.00 – Rs. 1200.00

D) Activities conducted under SCSP funded by IIPR, Kanpur

Krishi Vigyan Kendra, Burdwan enveavoured to uplift the socio-economic status of the scheduled caste farmers of the district by providing them useful agri inputs for their use. The programme was taken up in blocks of Purbasthali, Kanksa, Galsi I, Kalna, Ausgram I, Monteswar.

Crop diversification and homestead fruit orchard: Fruit saplings of guava and citrus (350 guava and 250 citrus) was provided to 34 beneficiaries for crop diversification and making small scale orchard in their homestead. Five of the beneficiaries also received paddle sprayer for efficient spraying of insecticides in fruit trees.

Developing entrepreneurship on mushroom production: 315 packets ofSpawn of oyster mushroom was distributed consequent upon hand on training for mushroom production

Development of backyard poultry unit:1000 non of RIR poultry chicks were provided to total 34 beneficiaries for developing backyard poultry unit. Along with these EPIC feed, poultry feeder and drinker were also provided to them.

Development of goatary unit: 7 male breedable goats were provided to 7 beneficiaries for income generation in different blocks of Purba BArdhaman.

Distribution of cycle weeder for efficient weeding in vegetable fields: 20 nos of cycle weeder developed by ICAR-CRIJAF were provided to 20 beneficiaries in various parts of the two districts of Purba and Paschim Bardhaman for efficient weed management in their vegetable fields.

Demonstration unit on vegetables: For development of vegetable units, 25 marginal male and female cultivators were supplied with about 8 kg of seed of different vegetables (Okra – 5.5 kg, Sweet corn: 2 kg, Watermelon: 300 gm and tomato: 50 gm). For efficient raising of seedlings 4 beneficiaries were provided 300 plug trays.

Making of honey bee unit at farmers level: For making honey bee unit 7 beneficiaries were provided with 10 bee hives with live bees.

Financial backstopping for threshing paddy: Paddy is by far the major crop of Burdwan and farmers used to thresh paddy basically mechanically. Hence, 10 SC beneficiaries were given manual paddy thresher which would aid in their processing of paddy.

Financial backstopping with battery operated sprayer: Due to increased incidence of pest and disease, sprayer is an essential implement for farmers. IN view of this 27 male and female beneficiaries were given 27 battery operated sprayer to take care of their cops in an efficient manner.

Technological backstopping with seed drill: Jute is an fairly important crop in the district of Purba Bardhaman. Jute+mung intercropping has been established as a profitable enterprise which will provide nutritional security to the farm families. IN view of this, 25 farm families were provided with 5 row seed drill for sowing jute with mung as an intercrop.

Distribution list of Agri-implements/inputs:

Technologies/ implements/ other input	Location/Area	No. beneficiary	Outcome
Male breedable goats	Purba Bardhaman	7	The goats are being used for breeding purposes generating average income of Rs. 15000.00 /year.
Pluck tray	Purba bardhaman	4	Used for raising seedlings with significant reduction of seedling mortality.
Fruit saplings	Paschim Bardhaman	34	Crop diversification.
Mushroom spawn	Paschim Bardhaman	64	Nutritional security of the beneficiaries have been enhanced besides generating income of Rs. 500.00 - 1250.00 per year.
RIR chicks	Purba and Paschim Bardhaman	34	Beneficiaries generated additional income in the frange Rs. 5000.00 – 7000.00 per year.
EPIC feed	Purba and Paschim Bardhaman	34	Enhanced egg production by 34% and milk production by 12%
Poultry feeder	Purba and Paschim Bardhaman	15	Reduced drudgery and cost of cultivation.
Poultry drinker	Purba and Paschim	14	Reduced drudgery and cost of cultivation.

	Bardhaman		
Cycle weeder	Purba and Paschim Bardhaman	20	Reduced drudgery and cost of cultivation.
Vegetable seed (tomato, sweet corn, watermelon, okra)	Purba and Paschim Bardhaman	25	Kitchen gardening and nutritional security for the family members.
Beehives with bees	Purba and Paschim Bardhaman	7	Three of the beneficiaries are now rearing honey bee in large scale.
Paddy thresher	Purba and Paschim Bardhaman	10	Reduced drudgery and cost of cultivation by 10% .
Battery operated sprayer	Purba and Paschim Bardhaman	27	Reduced drudgery and cost of cultivation.
Paddle sprayer	Purba and Paschim Bardhaman	5	Reduced drudgery and cost of cultivation.
CRIJAF 5 row seed drill	Purba bardhaman	25	Reduced cost of cultivation of jutes by 15% and enhanced productivity by 12%

E) District Agrometeorology Unit (DAMU)

Agromet advisory bulletins Issued	Different modes of bulletin distribution	Farmers Coverage	List of other organizations receiving Agromet advisories	Awareness cum training Programme	Fund Status (Rs.)
✓1896 (Block level Bulletins) ✓144 (District level Bulletins) ✓2040 total Agromet Advisory Bulletins issued ✓Special Bulletins: 7 ✓Nowcast Warning: 29	• KVK Burdwan Website • Facebook Page of KVK Burdwan • Whatsapp groups • Twitter • E-mail • Meghdoot Mobile App • 10 SMS sent through Kisan Portal	• KVK Facebook Page: 4813 • KVK district Whatsapp Group: 246 • So far, 20 Whatsapp groups created for different blocks: 810 ✓Total Beneficiaries: 5869 ✓Apart from this, 10 SMS Cpncerning AAS bulletins sent through Kisan Portal reaching almost 1.5 lakhs registered farmers of Purba Bardhaman district.	• IMD Pune • IMD New Delhi • ICAR-ATARI Kolkata • Regional Meteorological Centre, Kolkata • GKMS, Kalyani, BCKV • ICAR-CRIJAF • State line department of Agriculture • ADA offices of different blocks of Purba Bardhaman district • Different FPO's • Input dealers	Three off campus (Galsi-1, Ausgram-2 and Ausgram-1 on 18.10.2021, 26.10.2021 & 17.12.2021 respectively) and four on campus Awareness cum Training programme with 104 and 120 nos. of farmers respectively, on "Introduction and role of Agroadvisory services at block levels" were conducted by DAMU Barddhaman unit during this period. In association with each Awareness Programme, a brief introduction on modern means of weather details and agromet advisory dissemination apps like Mausam, Meghdoot and DAMINI etc. was discussed and also popularized among the farmers at different	Expenditure: 7,29,457 Fund Requirement : 15,00,000 **Funding agency: IMD**

				blocks.	

Farmers Feedback/Success Stories

1. A farmer named Mr. Bapi Shaikh, Mirjapur, Kalna, Dist- Purba Bardhaman, West Bengal-713405, Ph. No- 9734213386 has cultivated Kharif Rice in his 5.5 bigha land during this year which was in 80% maturity stage. Following the advisory bulletins and special bulletins regarding **very severe cyclonic storm "Yaas"** issued well in advance by DAMU, KVK Burdwan, he immediately harvested and threshed around 3 bigha of rice and the remaining crop was cut, bundled and covered with plastic tirpals in safe storage. In this way, he saved almost 14 q of rice approximately amounting Rs. 4000 to 6000 per bigha. Timely alert on **enhanced rainfall and thunderstorm activity during 11-15 June, 2021**, make him able to harvest the mature sesame crop in his 10 katha land which saves around 70 kg sesame crop from damage amounting Rs. 3500 to 4000. He thanked the SMS (Agromet) for minimizing the crop loss in his field and also inspires many farmers to follow and adopt the AAS bulletins on every Tuesday and Friday of each week and make a good contact with DAMU, KVK Burdwan through different modes of communications like Visits, Phone, Whatsapp groups, Mails, Facebook etc.

2. A progressive farmer from the Village- Kamra, Block- Monteswar of Purba Bardhaman District, Ph. No- 8927012729 namely **Joydeb Dey** has cultivated pulse crops (Green gram and Black gram) in most of his land and vegetables (Brinjal, onion and Chilli) in few pockets. A significant weather system (Cyclonic circulation followed by Low pressure system) with enhanced thunderstorm and rainfall activities over the district had been forecasted from 17th October to 20th October. Few interventions like advance preparation of drainage channels, avoiding sowing, irrigation and spraying operations in standing vegetables were advised through bulletins during those days to save the standing crops and vegetables along with minimizing input wastage. Most pulse crops of the district were in harvesting stage, which were advised to harvest 3-4 days earlier to get at least 85% recovery in crop losses. He blindly followed the AAS bulletin of that week and harvested his pulses well in time. Later on, he congratulated SMS (Agromet) for providing regular timely information about weather conditions, update on extreme weather and also informed that he saved almost 9000 Rs. for standing vegetable crops and approximately, 3500-5000 Rs. for pulses which otherwise would be damaged entirely.

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1. Performance of demonstration units (other than instructional farm)

Sl. No.	Name of demo Unit	Year of estt.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
1.	Orchard	200	10	Mango,	Fruit	**	5000	**	**

		9	000	Guava, Citrus	s				Orchard is under lease of Rs.25 000.00
2.									
3.									
4.									
5.									
6.									
7.									
	Total								

6.2. Performance of Instructional Farm (Crops)

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.(q)	Cost of inputs	Gross income	
Okra	15/7/20	multiple time	0.01	Kashi Kranti	seed	0.2	5000	10000	
Mango	-	-	-	Langra, Himsagar, Mallika & Amrapalli	saplings				
Guava	-	-	-	Baruipur	saplings	300 nos.	1000	12000	
Lime	-	-	-	Kagzi	saplings	300 nos.	1000	12000	

6.3. Performance of Production Units (bio-agents / bio pesticides/ bio fertilizers etc.,)

Sl. No.	Name of the Product	Qty. (Kg)	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1.					

6.4. Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
1.							
2.							
3.							

6.5. Utilization of hostel facilities

Accommodation available (No. of beds)

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
			Due to COVID protocol, no one allowed to stay in the Trainees Hostel
Total :			

(For whole of the year)

6.6. Utilization of staff quarters

Whether staff quarters has been completed:
No. of staffquarters:
Date of completion:
Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI

7. FINANCIAL PERFORMANCE

7.1. Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
Current	State Bank of India	Mankar, PurbaBardhaman	30466431682

7.2. Utilization of funds under CFLD on Oilseed *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April, 2021
	Kharif	Rabi	Kharif	Rabi	

7.3. Utilization of funds under CFLD on Pulses *(Rs. In Lakhs)*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2021
	Kharif	Rabi	Kharif	Rabi	

7.4 Utilization of KVK funds during the year 2021-22 (Not audited)

Sl. No.	Particulars	Sanctioned (Rs in lakh)	Released (Rs in lakh) December 2021	Expenditure (Rs in lakh) December 2021
A. Recurring Contingencies				
1	Pay & Allowances	160.00	131.5	98.00
2	Traveling allowances	1.50	1	0.27
3	HRD	0.30	0.30	0.00
3	Contingencies			
A	Stationary, telephone, postage and other expenditure on office running, etc			
B	POL, repair of vehicles, tractor and equipments	1.60	1.00	1.30
C	Meals/refreshment for trainees (@Rs75/day/trainee for residential and @ Rs 40/daytrainee for non-residential training)			
D	Training material(need based materials & equipment for conducting the training)	1.20	1.00	1.00
E	FLD	0.60	0.50	0.50
F	OFT	0.60	0.50	0.50
G	IFS			
H	Training of extension functionaries			
I	Extension activities			
J	Farmers Field School			
K	EDP/Innovative activities			
L	Soil & Water testing & Issue of Soil Health Cards			
M	Display board			
N	Maintenance of building			
O	SCSP	22.00	22.00	13.50
TOTAL (A)		187.8	157.8	101.57
B. Non-Recurring Contingencies				
1	Equipment & furniture	1.50	0.00	0.00
2	Works	16.00	15.81	0.00
3				
4	Library	0.10	0	0
TOTAL (B)				
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)				
Swachhta Expenditure		0.15	0.15	0.15

7.5. Status of revolving fund (Rs. in lakh) for last three years

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year (Kind + cash)
2019-20	Rs.158539.00	Rs. 1282977.00	Rs.610154.00	Rs. 831362+ 900000 (Kind)
2020-21	Rs 831362.00	Rs. 909865.00	Rs. 697737.00	Rs. 1043490+900000(Kind)
2021-22 (Dec 2021)	Rs. 1043490.00	Rs. 900000.00	Rs. 800000.00	Rs. 1100000+900000(Kind)

7.6. (i) Number of SHGs formed by KVKs
(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities
(iii) Details of marketing channels created for the SHGs

7.7. Joint activity carried out with line departments and ATMA

Nameof activity	Number of activity	Season	With line department	With ATMA	With both

8. Other information

8.1. Prevalent diseases in Crops

Name of the disease	Crop	Date of outbreak	Area affected (in ha)	% Commodity loss	Preventive measures taken for area (in ha)

8.2. Prevalent diseases in Livestock/Fishery

Name of the disease	Species affected	Date of outbreak	Number of death/ Morbidity rate (%)	Number of animals vaccinated	Preventive measures taken in pond (in ha)

9.1. Nehru YuvaKendra(NYK) Training

Title of the training programme	Period		No. of the participant		Amount of Fund Received (Rs)
	From	To	M	F	

9.2. PPV & FR Sensitization training Programme

Date of organizing the programme	Resource Person	No. of participants	Registration (crop wise)	
			Name of crop	No. of registration

9.3. *mKisan*Portal (National Farmers' Portal/ SMSPortal)

Type of message	No. of messages	No. of farmers covered
Crop	14	1149312
Livestock		
Fishery		
Weather	37	980058
Marketing		

Awareness		
Training information		
Other	4	312
Total	**55**	**2129682**

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	27,000
2.	No. of farmers registered in the portal	1,91,467
3.	Mobile Apps developed by KVK	*01*
4.	Name of the App	*Soil Test Based Fertilizer Application for Burdwan District*
5.	Language of the App	*English*
6.	Meant for crop/ livestock/ fishery/ others	*Crop*
7.	No. of times downloaded	

9.5. a. Observation of Swachh Bharat Programme

Date/ Duration of Observation	Activities undertaken

b. Details of Swachhta activities with expenditure

Activities	**Number**	**Expenditure (in Rs.)**
1. Digitization of office records/ e-office	-	-
2. Basic maintenance	-	-
3. Sanitation and SBM	-	2000.00
4. Cleaning and beautification of surrounding areas		5000.00
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	-	-
6. Used water for agriculture/ horticulture application	-	-
7. Swachhta Awareness at local level	-	5000.00
8. Swachhta Workshops	-	-
9. Swachhta Pledge	-	-
10. Display and Banner	5	1500.00
11. Foster healthy competition		-

12. Involvement of print and electronic media		1000.00
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)		
14. No of Staff members involved in the activities	11	
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		**14500.00**

9.6. Observation of National Science day

Date of Observation	Activities undertaken

9.7. Programme with SeemaSurakshaBal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural school

Name and address of school	Date of visit to school	Areas covered	Teaching aids used

Give good quality 1-2 photograph(s)

9.9.. Details of Swachhta Hi Sewa (16-31.12.2021) programme organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)

9.10. Details of MahilaKisan Divas programme (15.10.2021) organized

Sl. No.	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1	Mahila Kisan Diwas	3	35	0	0

9.11. No. of Progressive/Innovative/Lead farmer identified (category wise)

Sl. No.	Name of Farmer	Address of the farmer with contact no.	Innovation/ Leading in enterprise
1	Amalesh Chowdhury	Memari, 6295327192	Paddy seed production
2	Debangshu Rudra	Khandaghosh 7872764376	Vermicompost production and IFS
3	Jiban Khan	Jadabgunj, Ausgram 9064584978	Quality seed grower
4	Mintu Khan	Jadabgunj, Ausgram 7001590930	Farm mechanization

9.12. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.			
2.			
3.			

9.13. Resource Generation:

Sl.No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. lakhs)	Infrastructure created

9.14. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning

9.15. Contingent crop planning

Name of the state	Name of district/KVK	Thematic area	Number of programmes organized	Number of Farmers contacted	A brief about contingent plan executed by the KVK

10. Report on Cereal Systems Initiative for South Asia (CSISA)

a) Year:
b) Introduction / General Information:

	Title	Objective	Treatment	Date of	Replication	Result with

			details	sowing		photographs
Experiment 1						
Experiment 2						
Experiment 3						
…						
..						
Others (If any)						

11. Celebration of World Food Day in 2021

Sl. No.	**Activities undertaken**	**No. of VIPs attended**	**No. of participants**		
			M	**F**	**T**
1	**WFD**	**0**	**25**	**12**	**37**

12.Progress report of NICRA KVK (Technology Demonstration component) during the period (Applicable for KVKs identified under NICRA)

Natural Resource Management

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Crop Management

Name of intervention undertaken	Area (ha)	No of farmers covered / benefitted									Remarks
		SC		ST		Other		Total			
		M	F	M	F	M	F	M	F	T	

Livestock and fisheries

Name of intervention undertaken	Number of animals covered	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	

Institutional interventions

Name of intervention undertaken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

Capacity building

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T

Extension activities

Thematic area	No of activities	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T

Detailed report should be provided in the circulated Performa

13. Awards/Recognition received by the KVK

Sl. No.	Name of the Award	Year	Conferring Authority	Amount	Purpose

Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose

14. Any significant achievement of the KVK with facts and figures as well as quality photograph

15. Number of commodity based organizations/ farmers' cooperative society/ FPO formed/ associated with during last one year (Details of the group/society may be indicated)

Sl. No.	Name of the organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
	Galsi Sabuj	--	--	1. Paddy,	Crop	500	64 lakh	KVK

	Sathi FPC			greengram, sesame, lentil, mustard seed production 2. Renting agri-machineries on rent				facilitated formation of CHC

16. Integrated Farming System (IFS)

Details of KVK Demo. Unit

Sl. No.	Module details (Component-wise)	Area under IFS (ha)	Production (Commodity-wise)	Cost of production in Rs. (Component-wise)	Value realized in Rs. (Commodity-wise)	No. of farmer adopted practicing IFS	% Change in adoption during the year

17. Technologies for Doubling Farmers' Income

Sl. No.	Name of the Technology	Brief Details of Technology (3- 5 bullet points)	Net Return to the farmer (Rs.) per ha per year due to adoption of the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Seed production of paddy	• Improved quality seed was supplied • Farmers trainied on ICM on paddy and seed production protocols	25500/-	67	
2	Vermiculture and vermicomposting	• Vermiculture • Production of vermicompost	Rs. 47000/- (From 100 sq. m.)	45	
	Improved jute cultivation technique	• Line sowing of crop • Intercropping with amaranthus • Improved weed management • Microbial retting	Rs. 126000/-	78	
	Crop diversification	• Crop diversification with TCB	Rs. 136000/-	38	

		• Crop diversification with vegetables			

18. a) Information on **ASCI** Skill Development Training Programme, if undertaken during 2020

Name of the Job role	Name of the certified Trainer of KVK for the Job role	Date of start of training	Date of completion of training	No. of participants						Whether uploaded to SIP Portal (Y/N)	Fund utilized for the training (Rs.)
				SC		ST		Other			
				M	F	M	F	M	F		

b) Information on Skill Development Training Programme (**Other than ASCI or less than 200 hrs**., if any) if undertaken during 2020

Thematic area of training	Title of the training	Duration (in hrs.)	No. of participants									Fund utilized for the training (Rs.)
			SC		ST		Other		Total			
			M	F	M	F	M	F	M	F	T	

19. Information on NARI Project (if applicable)

Name of Nodal Officer	**No. of OFT on specified aspects**	**Title(s) of OFT**	**No. of FLD on specified aspects**	**No. of capacity development programme on specified aspects**	**Total no. of farm women/ girls involved in the project**	**Details of Issues related to gender mainstreaming addressed through the project**

20. Specific programmes for the period

i. Achievements in SCSP (Scheduled Caste Sub-Plan) (Specific for SC farmers only)

Sl. No.	**Activity**	**No. of SC farmers/ stakeholders**		
		Male	**Female**	**Total**
1	On- farm trials			
2	Frontline demonstrations			
3	No. of Training programmes for farmers			
4	Farmers trained			
5	No. of Training programmes for Extension Personnel			
6	Extension Personnel trained			
7	Participants in extension activities			

8	Distribution of seed			
9	Planting material distributed			
10	Livestock strains and fingerlings distributed			
11	Soil, water, plant, manures samples tested			
12	Mobile agro-advisory provided to farmers			
13	Other (Please specify)			

ii. Capacity building of farmers through training on Profitable Dairy Farming and Livestock Management (In case your KVK has Scientist (Animal/Veterinary Science))

Sl. No.	Title of the training	Date/ Duration	No. of Participants							
			SC		ST		Other		Total	
			M	F	M	F	M	F	M	F

iii. Status of Natural Farming

Crop/ Commodity involved in Natural farming	Area covered under such farming (ha)	No. of farmers practicing Natural farming at present	Details of individual farmers (Name and Contact No.)	Organic component/ inputs used for such farming

iv. Farmer Producer Organizations

a) General information

Sl. No.	Name & Address of FPO	Name &Contact No. of Head of FPO	No. of farmer members of FPO			Crop/ Enterprise dealt with by FPO	Kind of support provided by KVK in running/ starting of FPO (in brief)
			M	F	T		

b) Financial information

Name & Address of FPO	Date of Registration	FPO Registered (Y/N)	Application Submitted for Registration (Y/N)	No. of share-holding farmer members	Equity Amount Collected (Rs.)	Bank Account Opened (Y/N)	Board Reconstituted after attaining minimum membership (Y/N)

v. Nutri-gardens (Village wise)

Sl. No.	Name of village	Name of crop	Area under the crop (acre)	No. of farmers			Whether bio-fortified variety of crop used (If yes, mention variety & crop)
				M	F	T	

vi. Progress report on scientific beekeeping (2020-21 & 2021-22)

Name of KVK	Total budget allotted (Rs.)	Total budget utilized (Rs.)	Physical Training organized				Online Training organized			
			No. of training	No. of total participants			No. of training	No. of total participants		
				M	F	T		M	F	T

21. Any other programme organized by KVK, not covered above

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants

22. Good quality action photographs of overall achievements of KVK during the year (best 10)

Apiary Demonstration Unit at KVK	Apiary Demonstration Unit at KVK	Azolla unit at KVK

Cycle weeder distribution at KVK	DAESI final examination	Demonstration Unit on Kadaknath
Exposure visit at IFS model, KVK	FLD on kharif onion	Field Day on Tissue cultured banana
Foundation Paddy Seed Production at KVK	Fruit sapling Nursery at KVK, Burdwan	Honb'ble PM programme
IFFCO campaign on Nutri garden	Integrated Farming System at KVK	Mango saplings distribution at KVK

Method demonstration on CRIJAF SONA	Mushroom Spawn distribution	Mushroom Unit at KVK
Off Campus training programme at Galigram	Off Campus training programme at Sarul	Onion seed distribution at KVK
Paddy seeds distribution under Institute TSP	Parthenium Awarness Week celebration	Training on Mushroom cultivation
Training on Seedling raising on pluck tray	Tree Plantation programme at KVK with IFFCO	Vegetable seed distribution under Institute SCSP Fund

Vermicompost is ready for sale at KVK	Vermicompost unit at KVK	Vocational training on Jute Handicrafts & Kantha Stitch

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