ANNUAL REPORT

(JANUARY, 2024 - DECEMBER, 2024)

Submitted At

Annual Zonal Workshop for Krishi Vigyan Kendras (KVKs) under Zone – V, ICAR-Agricultural Technology Application Research Institute (ATARI), Kolkata Comprising States of Odisha & West Bengal and Union Territory of Andaman & Nicobar Islands

Organized By

ICAR–ATARI, Kolkata & Coochbehar Krishi Vigyan Kendra, Uttar Banga Krishi Viswavidyalaya, Coochbehar at Coochbehar Krishi Vigyan Kendra, Uttar Banga Krishi Viswavidyalaya, Pundibari, Coochbehar – 736165, West Bengal

Submitted By

Rathindra Krishi Vigyan Kendra
Palli Siksha Bhavana
(Institute of Agriculture)
Visva-Bharati
Sriniketan, Birbhum, West Bengal - 731236

28th – 30th August, 2025

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ANNUAL REPORT 2024 (January-December 2024)

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and Address of KVK with Phone Number, Fax Number and E-Mail Address

Address	Telephone Number		E-Mail
Rathindra Krishi Vigyan Kendra Palli Siksha Bhavana (Institute of Agriculture) Visva-Bharati, Sriniketan, P. O. – Sriniketan, Dist. – Birbhum, Pin. – 731236, West Bengal, India	Office 03463-264771	FAX -	rathindrakvk@gmail.com rathindrakvk@rediffmail.com rkvk@visva-bharati.ac.in

1.2. Name and Address of Host Organization with Phone Number, Fax Number and E-Mail

Address	Telephone Number		E-Mail
	Office	FAX	
Visva-Bharati, Santiniketan, P. O. – Santiniketan, Dist. – Birbhum, Pin. – 731235, West Bengal, India.	03463 - 262-751 to 262-756 (6 lines)	03463-262-672	Vice-Chancellor: vice-chancellor@visva-bharati.ac.in Registrar: registrar@visva-bharati.ac.in Principal, Palli Siksha Bhavana (Institute of Agriculture) and In-Charge Rathindra KVK: principal.psb@visva-Bharati.ac.in

1.3. Name of Senior Scientist and Head with phone & mobile No.

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Subrata Mandal	-	9434431350 9083621181	smkvkvb@gmail.com

1.4. Year of sanction: F.2 (2) \ 93-AE-1 on 4thOctober, 1994. Actual month of start: April, 1995 (Reference of Sanction Order)

1.5. Staff Position (as on 1st January, 2024)

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)
01.	Senior Scientist & Head	Dr. Subrata Mandal	Senior Scientist and Head	Agronomy	Pay Level -13 A Basic: Rs 1,56,900/-	08.10.2021	Permanent	GC
02.	Subject Matter Specialist	Sri Sourav Mondal	Subject Matter Specialist	Plant Protection	Pay Level -13 A Basic: Rs 1,52,300/-	01.08.2004	Permanent	SC
03.	Subject Matter Specialist	Dr. Prabuddha Ray	Subject Matter Specialist	Agricultural Extension	Pay Level -10 Basic: Rs. 73,200/-	19.06.2012	Permanent	GC
04.	Subject Matter Specialist	Dr. Madhuchhanda Khan	Subject Matter Specialist	Animal Science	Pay Level -11 Basic: Rs. 80,900/- NPA 20%	10.06.2014	Permanent	GC
05.	Programme Assistant	Sri Suraj Kumar Bhakta	Programme Assistant (Computer Programmer)	-	Pay Level -6 Basic: Rs.44,900/-	16.06.2014	Permanent	OBC
06.	Programme Assistant	Sri Palash Ankure	Programme Assistant (Farm Manager)	-	Pay Level -7 Basic: Rs.49,000/-	18.09.2014	Permanent	SC
07.	Supporting staff	Sri Naran Tudu	Supporting Staff	-	Pay Level -1 Basic: Rs.24,200/-	05.06.2014	Permanent	ST

Note: At present, 09 posts (Subject Matter Specialist-03, Programme Assistant-01, Assistant-01, Stenographer-01, Supporting Staff-01, Driver-02) are vacant among the total sanctioned post 16.

DAMU staff

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)
01.	Subject Matter Specialist	Sri Sayak Mahato	Subject Matter Specialist	Agro Meteorology	Pay Level -10 Basic: Rs 59,500/-	13.08.2020	Temporary	GC
02.	Agromet Observer	Sri Swapan Bauri	Agromet Observer	-	Pay Level -3 Basic: Rs 23,100/-	03.08.2020	Temporary	SC

Note: As per instruction from competent authorities DAMU Project has been withheld since 1st March, 2024.

1.6. Total land with KVK (in ha)

Sl. No.	Item	Area (ha)
1.	Under Buildings	00.550
2.	Under Demonstration Units	00.132
3.	Under Crops for Demonstration	02.000
4.	Orchard/Agro-forestry	03.000
5.	Under Seed Production	06.000
6.	Stocking and Rearing Pond	01.500
7.	Nursery Pond	00.013
8.	Under Fallow and farm roads	03.450
6.	Total	**16.645**

1.7. Infrastructure Development:

A) Buildings and others

Sl. 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					Totally completed	550.00	Under use	ICAR
2.	Trainees' Hostel					Totally completed	305.00	Under use	ICAR
3.	Staff Quarters (6)	-							
4.	Piggery unit	-							
5	Fencing	-							
6	Rainwater harvesting structure	-							
7	Threshing floor					Totally completed	180.00	Under use	ICAR
8	Farm go-down					Totally completed	46.25	Under use	ICAR
9.	Dairy unit	-							
10.	Poultry unit					Totally completed	80.00	Under use	ICAR
11.	Goatery unit	-				Not fully completed	30.00	Under use	ICAR
12.	Mushroom Lab					Totally completed	10.00	Under use	ICAR
13.	Mushroom production unit					Totally completed	20.00	Under use	ICAR
14.	Low-cost Shade net house					Totally completed	56.00	Under use	ICAR
15.	Soil and water test Lab					Totally completed	26.00	Under use	ICAR
16.	Portable Carp Hatchery for Fish Breeding					Totally completed	15.00	Under use	ICAR
17.	Duckery unit					Totally completed	80.00	Under use	ICAR
18.	Plant Diagnostic Laboratory					Totally completed	25.00	Under use	ICAR
19.	Micro Irrigation Demonstration Unit					Totally completed	100.00	Under use	ICAR
20.	Micro irrigation system in progeny orchard					Totally completed	10000	Under use	PMKSY
21.	Vermicompost unit (Swachhta action plan)					Totally completed	8.25	Under use	ICAR
22.	Azolla production unit					Totally completed	22.00	Under use	ICAR
23.	Bio floc Unit					Totally completed	5000 litres capacity	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
Motor Bike (Rajdoot)	1997	32,000.00	-	Not in running condition
Moped (Toro Jaz)	1997	12,500.00	-	Not in running condition
Multi Utility Vehicle (Bolero Plus)	2010	5,20,495.00	1,62,120	Condemned
Motor Bike (Hero Splendor Pro) WB 48A 6693	2016	59,223.00	18,163	In running condition
Scooter (Hero Edge LX) WB 48 A 6695	2016	60,323.00	10,894	In running condition
Multi Utility Vehicle (Bolero B4 BS6) WB 48G 5095	2023	8,58,343.00	7,528	In running Condition

C) Equipment & AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab Equipment				
Desiccators	1995-96	1540.00	Working condition	ICAR
Sewing machine	1995-96	3605.60	Working condition	ICAR
Mixer cum grinder	1995-96	3430.50	Working condition	ICAR
Weighing balance	1995-96	1700.00	Working condition	ICAR
Mixer grinder Kenstar	2004-05	5,000.00	Working condition	ICAR
Refrigerator Whirlpool	2004-05	16,750.00	Working condition	ICAR
Stabilizer Fizi	2004-05	2450.00	Working condition	ICAR
Shaker	2004-05	24500.00	Working condition	ICAR
Oven	2004-05	9000.00	Working condition	ICAR
Kelplus Digestation System Model KES 08L	2004-05	85,719.00	Working condition	ICAR
Kelplus Distillation System Elite Ex	2004-05	1,38,943.00	Working condition	ICAR
Systronics Micro controller based visible spectra-photometer	2004-05	53,064.00	Working condition	ICAR
Systronics P-H system	2004-05	21,582.00	Working condition	ICAR
Systronics Digital conductivity meter	2004-05	15,444.00	Working condition	ICAR
Systronics Flame photometer Type 128	2004-05	73405.00	Working condition	ICAR
Hotplate with energy regulator	2004-05	2,340.00	Working condition	ICAR
Glass distillation apparatus flux	2004-05	15,617.00	Working condition	ICAR
Physical balance cap.250g with weight box	2004-05	6,310.00	Working condition	ICAR
Shimadzu Electronic Balance	2004-05	66,254.00	Working condition	ICAR
Kjeldal digestion unit	2004-05	6,205.00	Working condition	ICAR
Kjeldal distillation unit	2004-05	10,411.00	Working condition	ICAR
Microscope- Trinocular	2010-11	47,069.00	Working condition	ICAR
Microscope – Stereo	2010-11	21,055.00	Working condition	ICAR
BOD incubator	2010-11	39,132.00	Working condition	ICAR
Autoclave- Vertical	2010-11	21,814.00	Working condition	ICAR
Centrifuge	2010-11	14,200.00	Working condition	ICAR
Microscope Image Projection System (MIPS)	2010-11	31,885.00	Working condition	ICAR
Laminar Flow	2010-11	53,465.00	Working condition	ICAR
Desiccators	2010-11	6,072.00	Working condition	ICAR
Rotary Shaker	2010-11	21,700.00	Working condition	ICAR
Digital Weighing machine	2010-11		Working condition	ICAR
Soil Testing Mini-Lab Mridha parikshak Solar Operated	2015-16	70,000.00	Working condition	ICAR
Soil Testing Mini-Lab Mridha parikshak Solar Operated	2016-17	86,000.00	Working condition	ICAR

Bardizzo Castrator	2016-17	1,600.00	Working condition	ICAR
Auto Vaccinator	2016-17	3,400.00	Working condition	ICAR
pH. Meter	2016-17	1,431.00	Working condition	ICAR
Room Thermometer	2016-17	295.00	Working condition	ICAR
Stethoscope	2016-17	500.00	Working condition	ICAR
Dissolved Oxygen Meter	2016-17	12,022.00	Working condition	ICAR
pH. Meter	2016-17	1,431.00	Working condition	ICAR
Digital Electronic Balance (5.0 mili grams – 300.00 grams)	2016-17	13,400.00	Working condition	ICAR
b. Farm machinery				
Tractor Model Mahindra B 275 – DI	1998-99	2,99,496.00	Working condition	ICAR
Power Tiller Model Kamco KMB 200	2001-02	99,672.00	Working condition	ICAR
Rotavator Model 5/540 R	2012-13	59,000.00	Working condition	ICAR
Bench Floor Scale (Capacity – 200 kg) Model Sana	2010-11	8,000.00	Working condition	ICAR
Precision Scale (Capacity – 600 gms) Model Sana	2010-11	11,200.00	Working condition	ICAR
Portable Carp Hatchery	2010-11	2,21,956.00	Working condition	ICAR
Seed Processing Machine Model 15X/C.H. Standard Capacity 1.5 ton / Hour	2015-16	2,57,800.00	Working condition	ICAR
Elevator 16 Feet complete with 1.5 HP 440 Volt Electric Motor	2015-16	55,000.00	Working condition	ICAR
Mini Grinder	2015-16	73,500.00	Working condition	ICAR
Palletizer Machine	2015-16	39,900.00	Working condition	ICAR
Generator 15 KVA 3 Phase Model CD- 15 of Copper Corporation	2015-16	3,95,025.00	Working condition	ICAR
Laptop HP G 240	2015-16	43,000.00	Working condition	ICAR
Desktop All-in-One HP 20	2015-16	44,430.00	Working condition	ICAR
UPS APC 600 VA	2015-16	2,300.00	Working condition	ICAR
Printer LaserJet M 126 nw	2015-16	12,900.00	Working condition	ICAR
Manual and autonomous agricultural spray drone	2022-23	9,98,000.00	Working condition	ICAR
Tractor Mahindra (01 no.)	2023-24	7,10,901.00	Working Condition	ICAR
Tractor Escorts (01 no.)	2023-24	9,99,990.00	Working Condition	ICAR – IIAB, Ranchi
c. A-V Aids				
Overhead Projector	1994-95	24,477.55	Not Working condition	ICAR
Sony TV	1998-99	20999.00	Not Working condition	ICAR
Sony audio system	1998-99	5,990.00	Not Working condition	ICAR
Sharp VCR	1998-99	13,750.00	Not Working condition	ICAR
Slide projector	2001-02	14,672.00	Not Working condition	ICAR
PA system			Not Working condition	ICAR
Amplifier	2001-02	6400.00	Working condition	ICAR
Microphone ASM580	2001-02	2700.00	Not Working condition	ICAR
Microphone ACM66	2001-02	1300.00	Not Working condition	ICAR
Speaker	2001-02	2500.00	Not Working condition	ICAR
DGT stand	2001-02	290.00	Working condition	ICAR
DGN stand	2001-02	490.00	Working condition	ICAR
LCD projector	2008-09	99,990.00	Not Working condition	ICAR
Camera	2008-09	23,900.00	Not Working condition	ICAR
Multimedia Projector SVGA WB 3300 HP	2019-20	32280.00	Working condition	ICAR
d. Office Equipments				
Word processor	1995-96	2,100.00	Working condition	ICAR
Canon photo copier	2003-04	69,988.00	Not in working condition	ICAR

Stabilizer 2KVA	2003-04	4,000.00	Working condition	ICAR
Generator	2008-09	49,500.00	Working condition	ICAR
Fingerprint based Attendance Register Eurovigil I Deter 200	2015-16	20,600.00	Working condition	ICAR
Printer HP L3 1020 Plus	2015-16	8,200.00	Working condition	ICAR
Canon Photo Copier Image RUNNER 2004 N	2016-17	80,273.00	Working condition	ICAR
Desktop Computer Intel Core I 5 Processor with UPS 600 VA	2017-18	47,700.00	Working condition	ICAR
Laptop HP Intel Core I 3 Processor	2017-18	48,900.00	Working condition	ICAR
HP Colour Desk Jet Printer 5821	2017-18		Working condition	ICAR
Aqua guard Water Purifier	2019-20	11500.00	Working condition	ICAR
Blue Star Water Cooler	2019-20	24900.00	Working condition	ICAR
Computer Table and chair	2020-21	17,500.00	Working condition	DAMU
Office Table and chair	2020-21	20,762.00	Working condition	DAMU
Office Almirah	2020-21	10,169.00	Working condition	DAMU
Computer Table 60"X36"X30"	2020-21	12000.00	Working condition	DAMU
Wooden Chair with Arm	2020-21	5500.00	Working condition	DAMU
Glass Door Almirah 78"X34"X48"	2020-21	12000.00	Working condition	DAMU
Steel Table 30"X24"X48" (2 Nos.)	2020-21	14000.00	Working condition	DAMU
Revolving Chair 18"X18" (3 Nos.)	2020-21	10500.00	Working condition	DAMU
HP Laptop with accessories	2020-21	45,217.00	Working condition	DAMU
HP Laptop	2022-23	29,900.00	Working condition	ICAR
Wall rack glass sliding (2)	2022-23	30,000.00	Working condition	ICAR
Aqua guard water purifier	2022-23	10,500.00	Working condition	ICAR
AC (3 nos.)	2022-23	98,500.00	Working condition	Seminar hall deposit of RKVK
Split AC (06 nos.)	2023-24	2,21,100.00	Working Condition	ICAR
Water Cooler (02 nos.)	2023-24	24,000.00	Working Condition	Trainees Hostel Deposit of RKVK
Water Purifier with Iron Remover (02 nos.)	2023-24	38,960.00	Working Condition	ICAR
Refrigerator (185 L, 01 nos.)	2023-24	15,200.00	Working Condition	ICAR
Printer Laser Jet (B/W, 01 no.)	2023-24	18,900.00	Working Condition	ICAR
Desktop Computer (01 no.)	2023-24	42,900.00	Working Condition	Seminar hall deposit of RKVK
Desk Chair (40 nos.)	2023-24	99,600.00	Working Condition	Seminar hall deposit of RKVK
Cabinet (01 nos.) & Revolving Chair (01 no.)	2023-24	14,000.00	Working Condition	ICAR
Steel Office Chair (08 nos.)	2023-24	17,600.00	Working Condition	ICAR
Printer Laser Jet (B/W, 01 no.)	2023-24	20,590.00	Working Condition	Seminar hall deposit of RKVK
Polar Fan (01 no.)	2023-24	3,300.00	Working Condition	Trainees Hostel Deposit of RKVK

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
ASPEE Sprayer (10 liters)	1995 - 96	2,050.00	Working condition	ICAR
ASPEE Hand Sprayer	1995 - 96	1,090.00	Working condition	ICAR
Paddy Thresher	1995 - 96	4,000.00	Working condition	ICAR
Hand Rotary Duster	1995 - 96	650.00	Working condition	ICAR
Spray Machine 16 lit. Capacity PVC Burret	2009-10	2,300.00	Working condition	ICAR
Mould Board Plough Model – Bengal Motor Works	2009 - 10	30,000.00	Working condition	ICAR
Mounted Offset 10”X20” Disc Harrow Model – Bengal Motor Works	2009 - 10	35,000.00	Working condition	ICAR
Self-Propelled Power Ripper Model Kumco KB - 120	2010 - 11	81,156.00	Working condition	ICAR

Zero Tillage Machine 11 Tynes	2010 - 11	40,000.00	Working condition	ICAR
Cono Weeder	2012 - 13	Free Supply	Working condition	ICAR
Drum Seeder	2012 – 13	Free Supply	Working condition	ICAR
Bush Cutter	2019-20	24643.00	Working condition	ICAR
PAGRO Multi speed Agriculture Rotavator (Custom hiring center)- 2	2023-24	2,60,000.00	Working condition	ICAR-IIAB
A.P.P.E Aluminum and hylum sheet Egg Incubator -500 egg capacity (Custom hiring center)	2023-24	69,980.00	Working condition	ICAR-IIAB
Honda Dewatering Pump-2.9 HP- 2 (Custom hiring center)	2023-24	71,998.00	Working condition	ICAR-IIAB
Paddle Wheel aerator (paddles) for fish farming-2 (Custom hiring center)	2023-24	1,00,000.00	Working condition	ICAR-IIAB
Motorized Thresher Machine for multi crops- 2(Custom hiring center)	2023-24	1,00,000.00	Working condition	ICAR-IIAB
Mini Dal Mill-3HP- 100kg Dal/hour (Custom hiring center)	2023-24	93,999.99	Working condition	ICAR-IIAB
Submersible Pump with accessories (01 no.)	2023-24	49,900.00	Working Condition	ICAR

1.8. Details of Scientific Advisory Committee (SAC) Meeting conducted in the last year

Action Taken Report of the Recommendation from the 27th SAC Meeting of Rathindra Krishi Vigyan Kendra, Birbhum held on 21.03.2024

Date	Number of Participants	Salient Recommendations	Action taken
21.03.2024	31 + all the staff members of RKVK	Suggestion for soil analysis for OFT related to nutrient management	Soil analysis before and after the OFT has been done in the OFT on fertilizer doses for finger millet production
		Suggestion for increasing planting material production in the instructional farm	Rathindra KVK produced an increased number of 76250 planting materials of different vegetables like brinjal, Chili, tomato, Coloured cauliflower, cabbage, cauliflower, capsicum, drumstick etc. for farm gate sale, FLD programme and SCSP distribution in the year 2024. It Was 56 280 in the year 2023.
		Suggestion for undertaking short term research after getting permission from host organization or ICAR-ATARI	This recommendation was taken into serious consideration and short-term research was undertaken after getting approval from Principal, PSB, Visva-Bharati and In-charge, RKVK, Birbhum
		Suggestion for provision for FPC members to get chance in the DAESI course	Interested members of different FPC have been got chance in the DAESI course of RKVK
		Suggestion for collaborative OFT with Dept. of Soil Science and Agricultural Chemistry, Visva-Bharati on Rhizobium efficiency	The OFT on Efficiency of different Rhizobium strain for increasing lentil production and soil health
		Suggestion for conducting impact analysis of different KVK activities	Impact analysis on different training and FLD programme have been carried out
		Suggestion for planning to address indiscriminate use of preservative and antibiotic	A skill training programme has been planned in the month of September, 2025 on “Quality fish production by managing indiscriminate use of preservatives and antibiotics in fishery sector” and an awareness programme has been planned in the month of October, 2025
		Suggestion for training on farm machinery and implements	KVK farmers were tagged with the training programmes of Department of Agricultural Engineering, Institute of Agriculture, Visva-Bharati during the year 2024-25
		Suggestion for recording body condition of animal related to FLD and OFT	Before starting the FLD and OFT the body condition of the animals has been checked & recorded. Healthy chicks and ducklings have been provided. The other technical inputs have also been distributed for FLD and OFT
		Suggestion for conducting OFT on Comparative performance assessment of the breeds like Gramapriya, Kalinga brown etc.	A contact was made with ICAR-ATARI, Kolkata after the SAC meeting. As per advice from ICAR-ATARI, two (2) numbers of OFT programme on Dairy Farming have been continued during the last year and the suggested OFT will be conducted in the next year

**** Salient recommendation of SAC in bullet form***

2.a. District level data on agriculture, livestock and farming situation (2022)

2.a.1. Major Farming system/enterprise

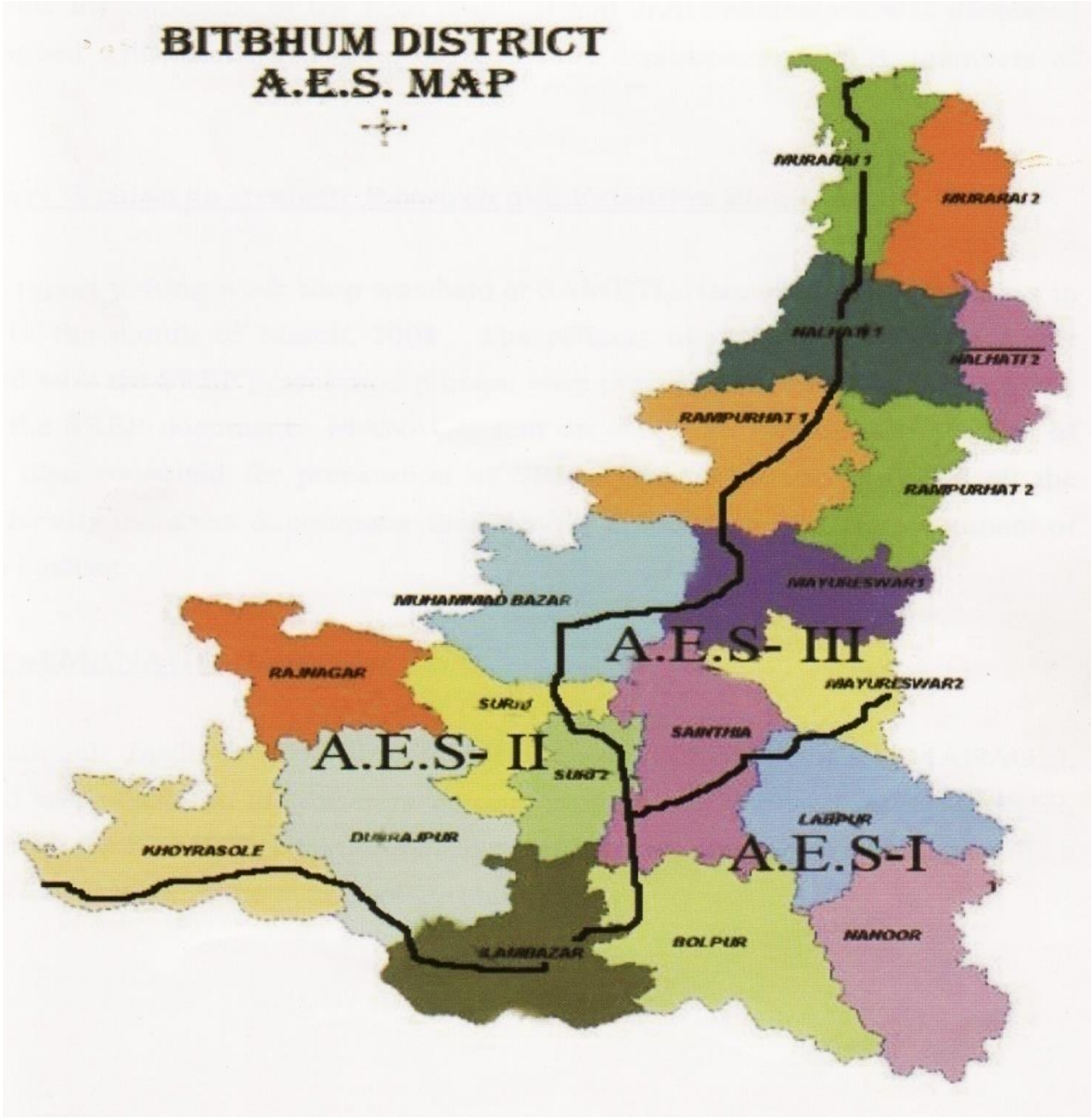
Sl. No.	Farming System/Enterprise
1.	**Upland**- Paddy, red gram, fruit crops
2.	**Mediumland**- Paddy, mustard, potato, sugarcane, sesame, black gram, vegetables, fruit crops, cow, goat, backyard poultry, fishery
3.	**Lowland**- Paddy, sugarcane, wheat, potato, vegetables, duckery, fishery

2.a.2. Agro-climatic Zone

Agro Ecological Sub Region (ICAR): - Assam and Bengal Plain, Hot Sub-humid to Humid (Inclusion of Per-humid) Eco-Region. (15.1)
Eastern plateau (Chhota Nagpur) And Eastern Ghats, Hot Sub-humid Eco-Region (12.3)
Agro-Climatic Zone (Planning Commission): - Lower Gangetic Plain Region (III)
Agro Climatic Zone (NARP): - Red and lateritic Zone (WB-5)

2.a.3. Agro-ecological situation

The Birbhum District is divided into three Agro-Ecological Situation viz. AES – I, AES – II and AES – III. The Rathindra KVK is situated in the AES – I. The Map and detailed features of the Ago-ecological Situations of the District of Birbhum are given here under.



Source: - SREP, Birbhum – 2009.

Agro-ecological Situations of the District of Birbhum

Characteristics	AES – I	AES – II	AES – III
Blocks covered	Blocks under this AES are Bolpur-Sriniketan, Nanoor, Sainthia, parts of Mayureswar – I and Mayureswar – II. parts of Labhpur, Illambazar	Blocks under this AES are Rajnagar, Dubrajpur, Khyrasole, parts of Nalhati – I, Rampurhat – I, Murarai– I, Mayureswar – I, Illambazar, Labhpur, Suri – I and Md. Bazar.	Blocks under this AES are Rampurhat – II, parts of Murarai – I, Murarai – II, Nalhati I, Nalhati – II, Md. Bazar, Suri – I and Suri – II.
Soil Type	Fertile loamy clay soil, 60 percent of cultivable area under loam – clay loam soil. pH – 4.5 – 6.5	Sandy to sandy clay soil. 80 percent of cultivable area under clay soil and slightly acidity problem soil. pH – 5.2 – 6.5	Clay to clay loam soil. 70 percent clay soil with 30 percent loam to clay loam soil. pH – 4.8 – 6.5
Irrigation	75 percent of the total cultivable area is under irrigation out of which 51 percent of area is under surface irrigation.	30 percent of the total cultivable area is under irrigation out of which 20 percent of the area is irrigated from surface water and the rest area is irrigated from minor irrigation sources. Ground water is not easily available.	70 percent of the total cultivable area is under irrigation out of which 60 percent of the area is irrigated from available groundwater. Surface irrigation area is only 10 percent. Ground water is easily available for irrigation purpose.
Important River	Ajoy, Mayurakshi, Dwaraka, Kopai	Hinglow, Bakreswar, Shaal, Ajoy, Chandrabhaga	Dwaraka, Brahmani, Mayurakshi, Pagla, Bansloi
Flood / Draught Proneness	Moderate flood prone area	Moderate draught prone area	Flood prone area
Available Water Area for Fish Cultivation	30 percent of ponds of the district of Birbhum are situated. Sweet water is available for fisheries.	20 percent of ponds of the District of Birbhum are under this AES. A vast sweet water resource is available for fish cultivation.	50 percent of the ponds of the District of Birbhum are under this AES. Sweet water area is available for fish cultivation.
Animal Resources	20 percent of the total Milch Cows of the District of Birbhum is available under this AES out of which upgraded Breed percentage is only 5 percent. Only 15 percent of the total Goat population of the District of Birbhum and 30 percent of the Poultry Population of the District of Birbhum are available in this AES.	50 percent of the total Milch Cows of the District of Birbhum is available under this AES out of which upgraded Breed percentage is only 5 percent. 60 percent of the total Goat population of the District of Birbhum and 40 percent of the Poultry Population of the District of Birbhum are available in this AES.	30 percent of the total Milch Cows of the District of Birbhum is available under this AES out of which upgraded Breed percentage is only 5 percent. Only 25 percent of the total Goat population of the District of Birbhum and 30 percent of the Poultry Population of the District of Birbhum are available in this AES.
Major Crops: **Paddy -** **Oil Seeds –** **Pulses –** **Vegetables –** **Fruits -**	 Pre-Kharif, Kharif and Boro Paddy Mustard, Groundnut and Sesame Black and Green Gram, Lentil, Bengal Gram, Kulthi Seasonal vegetable round the year Mango, Guava, Citrus, Banana, Coconut	 Pre-Kharif, Kharif and Boro Paddy Mustard and Groundnut and Sesame in limited areas. Khesari, Black and Green Gram, Lentil, Bengal Gram, Kulthi Seasonal vegetables round the year Mango, Guava, Citrus, Banana, Coconut	 Pre-Kharif, Kharif and Boro Paddy Mustard, Groundnut and Sesame Black Gram and Green Gram Seasonal vegetables round the year Mango, Guava, Citrus, Banana, Coconut.

Source: - SREP, Birbhum – 2009.

2.a.4. Soil Type

The predominant soil types are old alluvial and red lateritic with low to medium in organic carbon and phosphate content and medium to high in potash. The soil is acidic in nature with pH. range of 5.0 to 6.5.

This district (Birbhum) is enriched by various types of soil namely, Metal (Clay soil retentive of moisture which is best suited for growing Winter Rice, Sugarcane, Wheat, Gram and Kalai); Ental (a sticky brownish clay, it is poor soil and is capable of producing paddy only if manured); Bagha Ental (Ental having colour or tiger, it is poor soil capable of producing paddy only if manured); Beley (is a whitish loose and poor soil , capable of growing paddy and vegetable); Kankure ((it is a reddish, loose laterite soil capable of growing bajra, Maize, Kurthi, Bean and Marual); Bastu (it is a blackish friable rich soil and is largely used for rabi crops); Bindi (it is a poor sandy soil which improves with continued cultivation, capable of producing paddy but can also grow rabi crops if irrigated); RetiRfi (is lighter variant of Pali, it does not grow paddy it is best suited for vegetables, wheat, barley etc.) Pali (deposit of soil is bed of river or in areas subject to riverine inundation; it is very rich soil and is well suited for Sugarcane, Wheat, Gram, Potato and other Vegetables. It is generally reserved for more valuable crops rather than Rice).

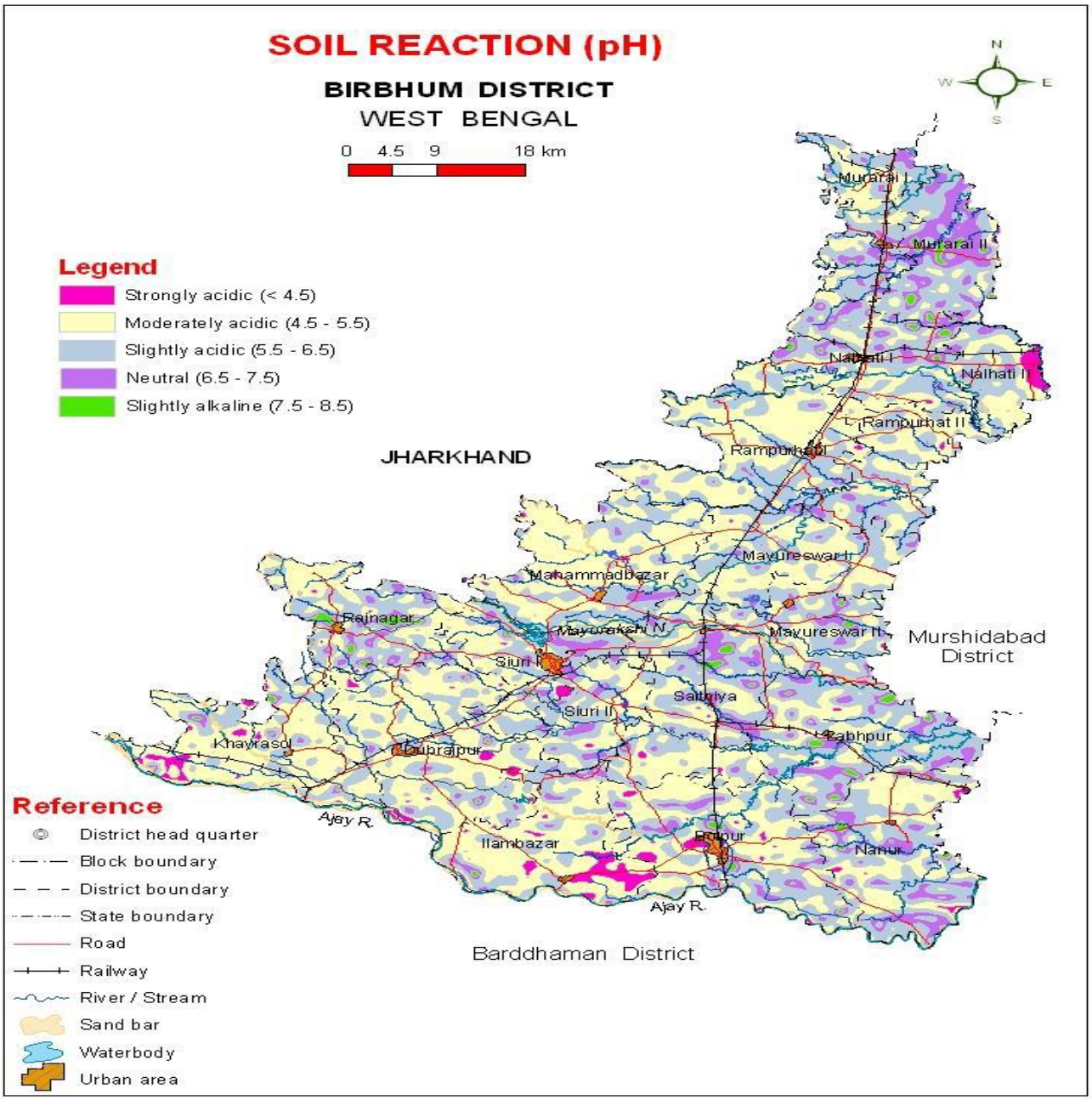


Fig. 5 Spatial distribution of soil reaction (pH) class

Sources: https://birbhum.gov.in/agriculture/

2.a.5 Productivity of major 2-3 crops under cereals, pulses, oilseeds, vegetables, fruits and others

Name of the Crop	2019-20			2020-21		
	Coverage (Ha)	Yield (Kg/Ha)	Production (MT)	Coverage (Ha)	Yield (Kg/Ha)	Production (MT)
Aman Paddy	264763	5138.2	1360392	303395	5100.64	1547509
Aus Paddy	3560	3050	10858	3560	3858	13734.48
Boro Paddy	98148	5160	506444	96685	5139	496864.2
Summer Maize	635	1500	952.5	1025	1655	1696.38
Kharif Maize	425	1850	786.25	1333	1340	1786.22
Groundnut(S)	261	1350	352.35	260	1260	327.60
Groundnut (Kh)	176	1138	200.288	1030	1085.15	1117.70
Mustard	40550	1305	52917.8	41850	1270	53149.50
Linseed	487	660	321.42	485	620	300.70
Sunflower	68	825	56.1	50	652	32.60
Sesamum	6320	798	5043.36	6125	957.25	5863.16
Arhar	348	940	327.12	615	1055	648.83
Lentil	21355	1076	22978	21650	1104	23901.60
Khesari	6000	700	4200	6250	895	5593.75
Gram	12570	1375	17283.8	11655	1520	17715.60
Pea	350	920.25	322.088	345	1272	438.84
S/Moong	2460	670	1648.20	2445	915	2237.18
S/Kalai	1218	675	822.15	1210	955.1	1155.67
Bhadoi Kalai	875	730	638.75	886	665	589.19
Kulthi & other Pulse	318	725	230.55	381	674	256.79
Potato	20767	29175	605881.00	21050	32060	674863.00
Wheat	26965	3255	87771.1	25365	3275	83070.38
S/Cane	1066	78638	83828.1	1065	78638	83749.47

Source – Dept. of Agriculture, Birbhum District, Govt. of West Bengal.
Internet Source https://birbhum.gov.in/agriculture/

Area & Production and productivity of vegetables in Birbhum District [2017-18 to 2021-22]

Name of the Vegetables	2017-18			2018-19			2019-20			2020-21			2021-22		
	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)
Beans	2.17	8.52	3926.27	2.28	8.6	3772	2.28	8.66	3798	2.28	8.66	3798.24	0	0	-
Bitter gourd	0.2562	1.132	4418.42	0.2635	1.1878	4508	0.2707	1.7	6280	0.271	1.703	6284.13	0	0	-
Bottle gourd	0.247	2.48	10040.49	0.253	2.578	10190	0.251	2.532	10088	0.252	2.533	10051.5	0	0	-
Brinjal	10.21	171.59	16806.07	10.55	172.84	16383	10.546	171.95	16305	10.54	172.95	16408.91	10.55	171.97	16300.47
Cabbage	2.71	73.50	27121.77	2.75	73.78	26829	2.75	71.75	26091	2.75	71.75	26090.91	2.76	71.78	26007.24
Capsicum	0.0002	0.008	40000.00	0.0002	0.008	40000	0.0002	0.0039	19500	0.0002	0.0041	20500	0	0	-
Carrot	2.70	73.68	27288.89	2.71	73.7	27196	2.511	64.89	25842	2.51	65.61	26139.44	0	0	-
cauliflower	2.31	44.481	19255.84	2.387	44.568	18671	2.396	44.54	18589	2.397	44.64	18623.27	2.4	44.58	18575
Cucumber	2.41	24.125	10010.37	2.455	24.258	9881	2.378	26.33	11072	2.378	28.3	11900.75	0	0	-
Green chili	0.421	1.349	3204.28	0.421	1.349	3204	0.41	1.369	3339	0.41	1.589	3875.60	0	0	-
Elephants Foot Yam	0.0252	4.75	188492.06	0.0255	4.9	192157	0.025	0.821	32840	0.025	0.821	32840	0	0	-
Okra (Lady's finger)	4.29	38.67	9013.99	4.32	38.77	8975	4.31	39.22	9100	4.31	39.41	9143.85	4.32	39.25	9085.64
Onion	1.54	21.02	13649.35	1.85	21.05	11378	1.85	23.05	12459	1.85	23.05	12459.45	1.87	23.1	12352.94
Poited gourd	1.24	5.24	4225.81	1.38	2.73	1978	1.39	6.18	4446	1.39	6.29	4525.17	0	0	-
Peas (Green)	0.81	3.13	3864.20	0.82	3.24	3951	0.81	3.2	3951	0.81	3.2	3950.61	0.81	3.2	3950.61
Radish	1.21	22.20	18347.11	1.82	22.3	12253	1.65	28.5	17273	1.62	32.15	19845.67	1.90	26.70	14052.63
Pumpkin	6.45	97.75	15155.04	6.7	97.9	14612	6.44	99.2	15404	6.38	99.2	15548.58	0	0	-
Sweet Potato	0.84	15.16	18047.62	0.85	15.35	18059	2.35	15.35	15213	0.85	15.36	18070.58	0	0	-
Tomato	2.14	33.47	15640.19	2.3	33.5	14565	0.85	35.75	18059	2.35	35.75	15212.76	2.38	35.8	15042.02
Watermelon	1.06	15.52	14641.51	1	15.6	15600	1.02	16.52	16196	1.02	16.52	16196.07	0	0	-
Others carrot, beet root, leafy vegetables etc.	11.85	35.27	2976.37	11.83	35.32	2986	11.91	41.54	3488	11.91	41.54	3487.82	11.92	38.6	3238.25
Cucurbits	0	0	0.00	0	0	0	0	0	0	0	0	0	12.25	171.7	14016.32
Total Vegetables	**54.8896**	**693.045**	**12626.16**	**56.9652**	**693.5288**	12175	**56.3979**	**703.0559**	12466	**56.3032**	**711.0301**	12628.59	51.16	626.68	12249.41

Area & Production and productivity of fruits in Birbhum District [2017-18 to 2021-22]															
Name of the Fruits	2017-18			2018-19			2019-20			2020-21			2021-22		
	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)	Area (in thousand ha.)	Production (in thousand tons)	Productivity (Kg/ha.)
Aonia	0.014	0.06	4285.71	0.014	0.06	4285.71	0	0	-	0	0	-	0	0	-
Banana	1.095	14.75	13470.32	1.102	14.814	13442.8	1.102	14.822	13450.1	1.102	14.822	13450.09	1.125	14.83	13182.22
Ber	0.252	1.65	6547.62	0.253	1.651	6525.69	0	0	-	0	0	-	0	0	-
Citrus (Lime Lemon)	0.54	2.74	5074.07	0.546	2.75	5036.63	0	0	-	0	0	-	0	0	-
Citrus (Mandarin Orange)	0	0	-	0	0	-	0	0	-	0	0	-	0	0	-
Citrus (Other)	0.3	2.06	6866.67	0.3	2.07	6900	0.847	4.82	5690.67	0.847	4.82	5690.67	0.85	4.814	5663.52
Citrus (Sweet Orange)	0.006	0.36	60000.00	0.006	0.35	58333.3	0.006	0.353	58833.3	0.006	0.353	58833.33	0	0	-
Citrus (Total)	0	0	-	0.852	5.17	6068.08	0.853	5.173	6064.48	0.853	5.173	6064.47	0	0	-
Guava	1.378	18.605	13501.45	1.38	18.612	13487	1.382	18.635	13484.1	1.382	18.635	13484.08	1.42	18.635	13123.23
Jackfruit	0.095	1.854	19515.79	0.096	1.856	19333.3	0.096	1.856	19333.3	0.096	1.856	19333.33	0.096	1.856	19333.33
Litchi	0.051	0.25	4901.96	0.05	0.245	4900	0.05	0.246	4920	0.05	0.246	4920	0.05	0.246	4920
Mango	1.922	10.13	5270.55	1.922	10.132	5271.59	2.025	10.43	5150.62	2.031	10.43	5135.40	2.04	10.43	5112.74
Papaya	0.735	20.45	27823.13	0.736	19.4	26358.7	0.742	18.55	25000	0.742	18.55	25000	0.75	18.6	24800
Pineapple	0.003	0.036	12000.00	0.003	0.036	12000	0.003	0.044	14666.7	0.003	0.044	14666.66	0.003	0.044	14666.66
Sapota	0.172	1.835	10668.60	0.17	1.808	10635.3	0.15	1.72	11466.7	0.15	1.72	11466.66	0.15	1.72	11466.66
Other fruits	0.266	1.632	6135.34	0.266	1.632	6135.34	0.284	1.692	5957.75	0.284	1.692	5957.7465	0.284	1.692	5957.74
Total Vegetables	**6.829**	**76.412**	**11189.34**	**7.696**	**80.586**	**10471**	**7.54**	**78.341**	**10390**	**7.546**	**78.341**	**10381.8**	**6.768**	**72.867**	**10766.40**

Source: Office of Dy. Director of Horticulture, Govt. of West Bengal, Birbhum

2.a.6. Mean yearly temperature, rainfall, and humidity of the district.

The temperature varies from 12.7˚C to 28.3˚C in winter and from 25.5˚C to 41.5˚C in summer. The average rainfall is 1430 mm. (Source: - http://www.birbhum.gov.in/DDAgri/ddadmin.htm).

The climate of the district is generally dry, mild, and healthy. The hot weather usually lasts from the middle of March to the middle of June, the rainy season from the middle of June to the middle of October, and the cold weather from middle of October to the middle of March. They do not always correspond to this limit. As a rule, the wind is from south-east in summer and from the northwest in winter.

Month-wise weather Data of Bolpur-Sriniketan block of Birbhum District from January, 2024 to December, 2024

Month	Rainfall (mm.) (Total)	Temp. (0 C) Maximum (Mean)	Temp. (0 C) Minimum (Mean)	Relative Humidity (%) (Mean)	
				At 8.30 AM	At 5.30 PM
January,2024	34.9	25.2	7.4	21.6	10.7
February,2024	2.9	31.6	8.2	26.8	14.7
March,2024	55.8	35.6	13.0	31.3	18.2
April,2024	6.9	43.6	19.8	38.6	23.3
May,2024	85.9	41.2	20.6	36.1	24.3
June,2024	53.6	41.4	21.0	37.4	26.2
July,2024	212.1	36.8	24.4	34.1	25.7
August,2024	365.8	35.1	23.5	33.1	24.8
September,2024	338.5	36.0	22.6	33.5	24.8
October,2024	161.6	35.0	20.4	32.3	23.1
November,2024	0.0	32.8	13.4	29.0	16.6
December,2024	0.1	28.8	7.8	25.4	12.7
Total	**1318.1**	**423.1**	**202.1**	**379.2**	**245.1**

(Source: - Meteorological Observatory Office, Dept. of Meteorology, Govt. of India, Sriniketan, Birbhum, West Bengal and Automatic Weather Station, Rathindra KVK, Sriniketan, Birbhum)

- Highest rainfall observed in the month of August, 2024 i.e. 365.8 mm
- Lowest rainfall observed in the month of November, 2024 i.e. 0.0 mm
- Total rainfall observed from January, 2024 to December, 2024 was 1318.1 mm
- Highest Maximum temperature observed in the month April, i.e. 43.6^0 C
- Lowest Minimum temperature observed in the month January, i.e. 7.4^0 C

Comparison between Observed data (January, 2024 to December, 2024) to Long term Average (LTA) data of Birbhum district

Month	Rainfall (mm.)	LTA Rainfall (mm.)	Temp. (0 C) Maximum (Mean)	LTA Max. Temp. (^{0}C)	Temp. (^{0} C) Minimum (Mean)	LTA Min. Temp. (0 C)	Relative Humidity (%) (Mean)			LTA Avg. Relative Humidity (%)
							At 8.30 AM	At 5.30 PM	Avg. (%)	
January, 2024	34.9	9.61	21.6	25.15	10.7	11.86	90.2	73.2	81.7	73.56
February, 2024	2.9	21.25	26.8	28.18	14.7	14.48	76.7	60.3	68.5	62.35
March, 2024	55.8	32.96	31.3	33.76	18.2	19.59	74.9	57.8	66.35	56.38
April, 2024	6.9	50.52	38.6	37.07	23.3	23.71	54.9	43.2	49.05	61.05
May, 2024	85.9	98.09	36.1	36.71	24.3	25.03	70.9	56.3	63.6	73.07
June, 2024	53.6	250.09	37.4	34.61	26.2	25.71	75.2	64.9	70.05	80.06
July, 2024	212.1	330.47	34.1	32.73	25.7	25.88	85.4	81.6	83.5	84.59
August, 2024	365.8	285.13	33.1	32.08	24.8	25.77	87.4	83.1	85.25	87.11
September, 2024	338.5	140.8	33.5	32.18	24.8	25.25	86.9	83.9	85.4	85.04
October, 2024	161.6	102.29	32.3	31.41	23.1	22.44	89.5	83.4	86.45	76.46
November, 2024	0.0	12.71	29.0	29.17	16.6	17.34	89.0	77.4	83.2	72.19
December, 2024	0.1	11.02	25.4	26.1	12.7	12.6	83.5	70.5	77	71.5

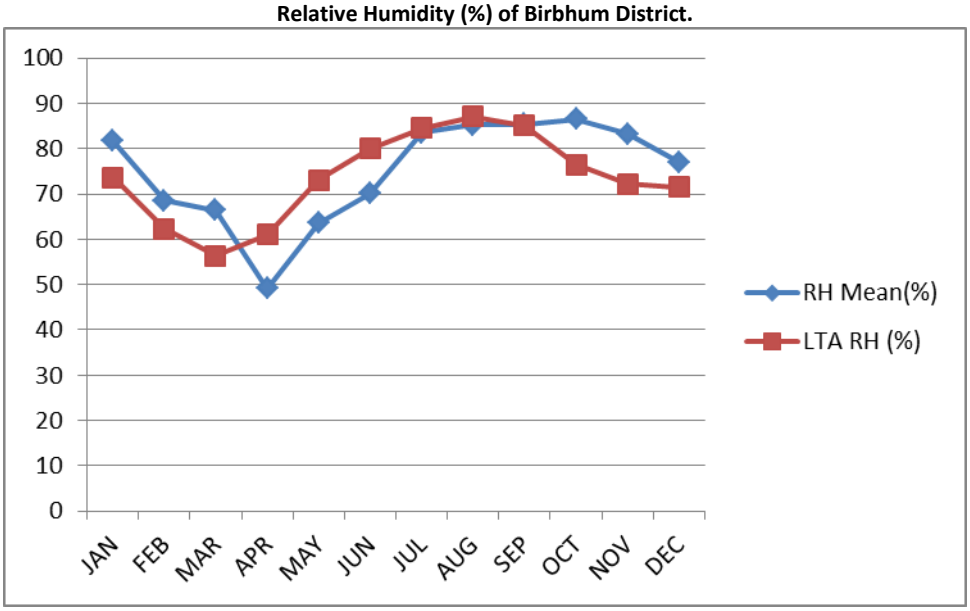
LTA = Long Term Average of 26 Years (From 1989-90 to 2016-17)

(Source: - Meteorological Observatory Office, Dept. of Meteorology, Govt. of India, Sriniketan, Birbhum, West Bengal)

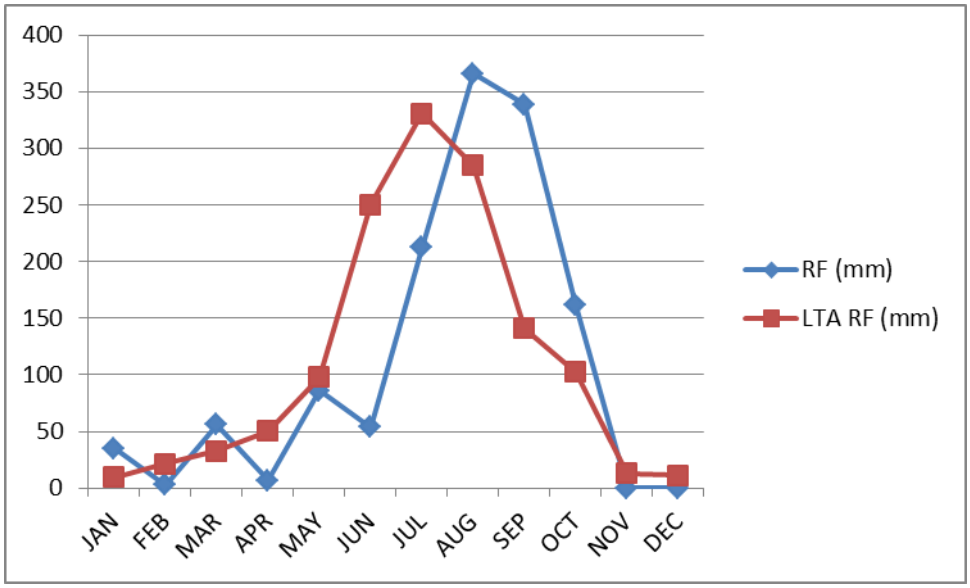
Climate and Rainfall of Birbhum District

Month	Normal / Average Rainfall (In mm.)	Actual Rainfall (in mm) (2008)	Actual Rainfall (in mm) (2009)	Actual Rainfall (in mm) (2010)	Actual Rainfall (in mm) (2011)	Actual Rainfall (in mm) (2012)	Actual Rainfall (in mm) (2013)	Actual Rainfall (in mm) (2014)	Actual Rainfall (in mm) (2015)	Actual Rainfall (in mm) (2016)	Actual Rainfall (in mm) (2017)	Actual Rainfall (in mm) (2018)	Actual Rainfall (in mm) (2019)	Actual Rainfall (in mm) (2020)	Actual Rainfall (in mm) (2021)
January	9.70	14.40	0.00	1.20	7.00	19.60	0.80	5.13	5.60	60.00	5.06	0.00	0.00	26.82	0.00
February	23.20	5.50	11.30	4.10	0.40	4.60	16.60	33.50	9.30	26.90	Nil	0.76	34.10	1.32	0.00
March	23.30	8.20	14.30	5.30	35.20	9.80	1.00	28.30	30.40	16.30	7.09	0.53	27.10	41.04	10.42
April	40.70	27.70	0.00	22.40	69.20	26.00	47.40	0.16	91.20	19.70	49.77	58.91	85.80	65.59	33.49
May	88.70	80.40	198.30	71.90	95.10	43.10	172.70	80.70	69.80	144.70	217.72	96.72	162.86	208.95	247.00
June	234.20	301.10	89.10	221.70	403.10	133.60	154.00	148.80	304.00	220.40	148.70	176.10	65.30	312.86	331.23
July	324.50	408.40	234.50	200.40	186.30	314.80	168.00	429.50	695.56	348.00	489.57	243.00	229.42	391.70	
August	295.70	299.00	317.10	112.70	438.60	207.30	348.90	276.20	289.20	335.60	241.17	193.60	172.57	360.03	
September	258.20	156.80	235.50	220.80	205.60	114.20	148.70	128.60	113.20	357.70	178.19	172.90	286.23	223.16	
October	105.40	90.00	77.90	69.20	18.70	76.00	300.80	5.80	37.40	37.10	217.36	42.30	226.50	47.51	
November	17.50	0.00	0.90	5.80	1.70	88.70	0.00	0.00	4.26	Nil	3.13	0.00	0.26	0.00	
December	9.40	0.00	0.00	49.00	0.00	6.60	0.00	0.00	3.50	Nil	3.70	22.30	1.69	0.00	
Total	**1430.50**	**1391.50**	**1178.90**	**984.50**	**1460.90**	**1044.30**	**1358.90**	**1136.69**	**1653.42**	**1566.40**	**1561.46**	**1007.12**	**1291.83**	**1678.98**	**622.14**

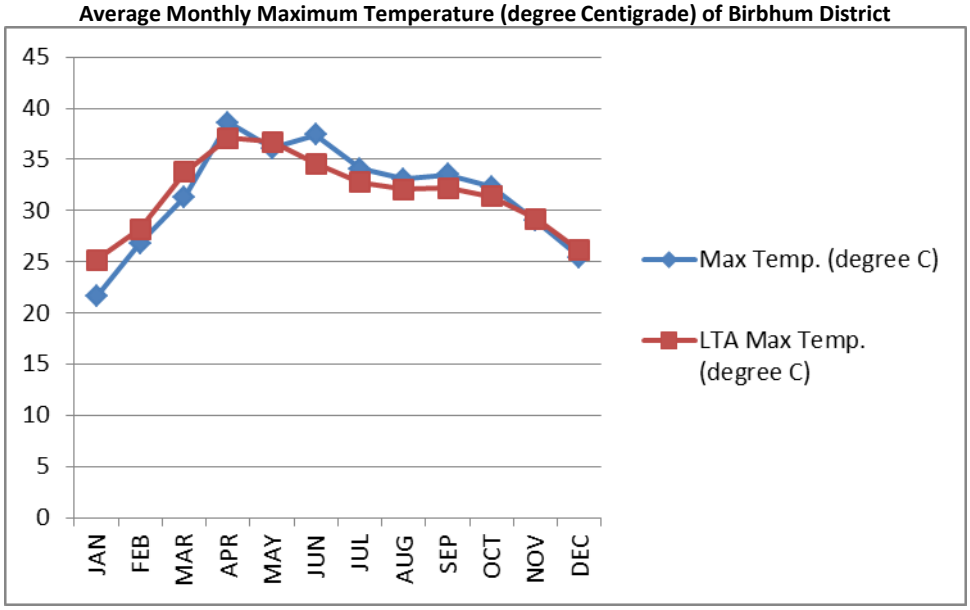
Monthly Average Relative Humidity (%) of Birbhum District in January, 2024 to December, 2024 vis-à-vis Long Term Average Monthly Relative Humidity (%) of Birbhum District.



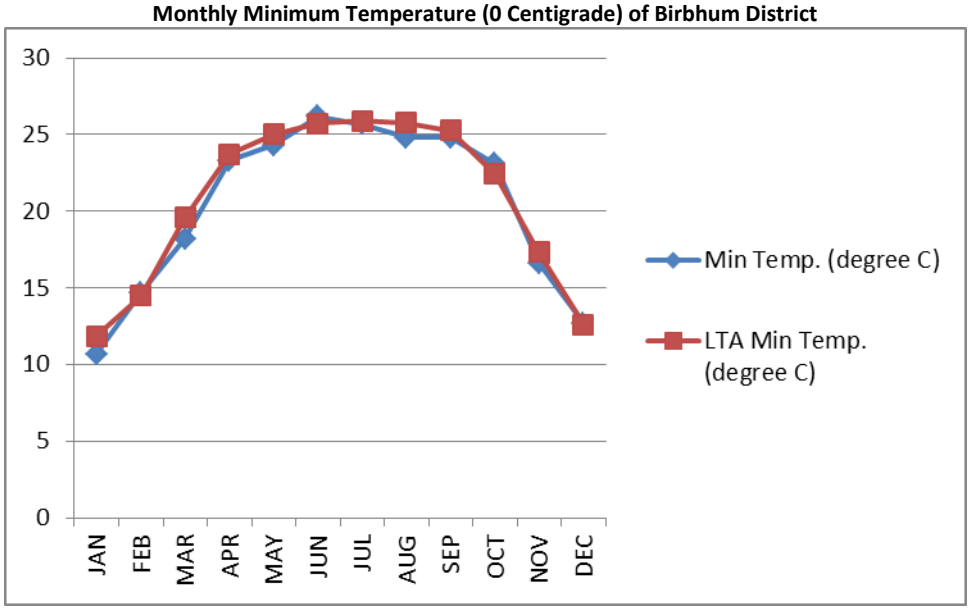
Monthly Rainfall (mm.) of Birbhum District in January, 2024 to December, 2024 vis-à-vis Long Term Average Monthly Rainfall (mm.) of Birbhum District



Monthly Average Maximum Temperature (⁰ Centigrade) of Birbhum District in January, 2024 to December, 2024 vis-à-vis Long Term Average Monthly Maximum Temperature (degree Centigrade) of Birbhum District



Monthly Average Minimum Temperature (⁰ Centigrade) of Birbhum District in January, 2024 to December, 2024 vis-à-vis Long Term Average Monthly Minimum Temperature (0 Centigrade) of Birbhum District



2.a.7 Production of major livestock products like milk, egg, meat etc.

Details of Live-Stock and Poultry in the District of Birbhum

Sl. No.	TYPE OF ANIMALS	AS PER 18TH LIVESTOCK CENSUS	AS PER 19TH LIVESTOCK CENSUS	AS PER 20TH LIVESTOCK CENSUS
01.	CROSSBRED & UP-GRADED CATTLE	80,970	2,00,388	3,81,661
02.	INDIGENOUS CATTLE	10,52,384	8,78,856	8,98,610
03.	TOTAL CATTLE & BUFFALO	12,00,934	10,21,354	12,80,271
04.	GOAT	9,41,989	7,53,884	11,68,796
05.	SHEEP	2,16,888	1,64,904	1,59,206
06.	PIG	49,177	30,347	38,374
07.	POULTRY BIRDS	42,23,131	40,87,394	District Data not yet published

(Source: - https://birbhum.gov.in/animal-resource-development/ https://cdn.s3waas.gov.in/s3fc3cf452d3da8402bebb765225ce8c0e/uploads/2021/07/2021071358.pdf)

Source: - Live-Stock Census Report, Govt. Of W. B. And Annual Administrative Reports of Animal Resources Development Department, Govt. Of West Bengal.

Species wise rural and urban population of 20th Livestock Census as on October, 2019 from https://dahd.nic.in/animalhusbandry-statistics															
District	Cattle		Total	Buffalo		Total	Sheep		Total	Goat		Total	Pig		Total
	Rural	Urban		Rural	Urban		Rural	Urban		Rural	Urban		Rural	Urban	
Birbhum	11,69,893	15,440	11,85,333	94,456	482	94,938	1,57,347	1,859	1,59,206	11,46,700	22,096	11,68,796	37,835	539	38,374
Grand Total	11,69,893	15,440	11,85,333	94,456	482	94,938	1,57,347	1,859	1,59,206	11,46,700	22,096	11,68,796	37,835	539	38,374

Sources: https://www.darahwb.org/stasticstics_census.php

Production of Milk in the District of Birbhum During 2019-20 (figures in '000 Tons)										
Sr. No.	Name of the District	Cattle				Buffalo			Goat	TOTAL
		Crossbred	Indigenous	Non-Descriptive	Total Cattle	Indigenous	Non-Descriptive	Total Buffalo		
		Milk Production	Milk Production	Milk Production	Milk Production	Milk Production	Milk Production	Milk Production	Milk Production	Milk Production
1	Birbhum	56.55	56.80	120.94	234.28	5.29	6.36	11.65	10.51	256.44
Total		**56.55**	**56.80**	**120.94**	**234.28**	**5.29**	**6.36**	**11.65**	**10.51**	**256.44**

Sources: https://www.darahwb.org/stasticstics_census.php

Production of Egg in the District of Birbhum During 2019-20 (figures in lakh nos.)							
Sr. No.	Name of the District	FOWL			DUCK		TOTAL
		DESI	IMPROVED		DESI	IMPROVED	
		BACKYARD	BACKYARD	COMMERCIAL	BACKYARD	BACKYARD	
		Egg Production	Egg Production	Egg Production	Egg Production	Egg Production	Egg Production
01.	Birbhum	2449.19	821.20	2235.02	681.96	72.55	6259.92
Total		**2449.19**	**821.20**	**2235.02**	**681.96**	**72.55**	**6259.92**

Sources: https://www.darahwb.org/stasticstics_census.php

Production of Wool in the District of Birbhum During 2019-20 (figures in '000 Kg.)					
Sr. No.	Name of the District	Production of Wool			
		Lamb	Ram	Ewe	TOTAL
01.	Birbhum	6.76	46.81	63.41	116.98
Total		**6.76**	**46.81**	**63.41**	**116.98**

Sources: https://www.darahwb.org/stasticstics_census.php

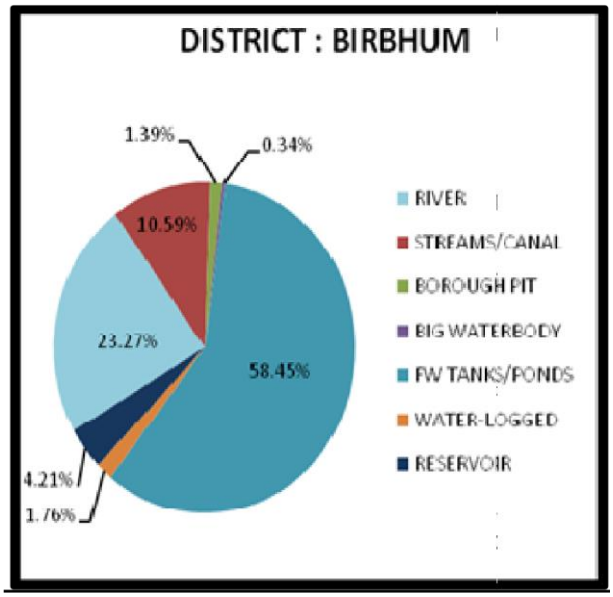
Production of Meat in the District of Birbhum During 2019-20								('000 Tons)
Sr. No.	Name of the District	Cattle Meat	Buffalo Meat	Sheep Meat	Goat Meat	Pig Meat	Poultry Meat	Total Meat
1	Birbhum	0.43	0.35	2.18	17.46	1.79	31.16	53.37
Total		**0.43**	**0.35**	**2.18**	**17.46**	**1.79**	**31.16**	**53.37**

Sources: https://www.darahwb.org/stasticstics_census.php

Production Details of Fishery Sector in Birbhum District

A) Fishery Resources in Birbhum	Related Data
Total tanks	21376.87 ha.
Vested (whole)	817.32 ha.
Vested (Partial)	425.04 ha.
Private ownership	20134.51 ha.
Culturable	14833.80 ha
Semi-derelict	4798.09 ha.
Derelict-	1744.98 ha.
Beel & Baor-	632.16 ha.
Reservoir- (Tilpara -647.77 ha, Deuch-120 ha, Hinglow-524.88 ha, Baidhara-88 ha ,Bakreswar-950 ha, Messenjore-7085.88 ha	9416.53 ha.
River-	795.63 Km
Canal	998.7 Km
Canal with sub canal/branch canal –	5696.85 Km
Total fishermen -	181500 nos.
Total Fishermen Families-	45350 nos.
Functional Fishermen Co-operative Society	20 nos including Birbhum CFCS
Central fishermen Co-operative Society-	1 (One)
Fish seed hatchery (IMC & Magur)	18 nos. (16 – IMC & 2 Magur)
Fish Production Group-	116 nos
B) Demand & Production of Fish Seed & Table Fish	
Total annual demand of table fish – (2020-21)	71802 M. T
Total annual production of table fish-2020-21	79325 M.T.
Spawn Production (2019-20)	616 Million
Fry Production (2019-20)	200 Million
Fingerlings- Production (2019-20)	145 Million
Spawn Production (2020-21)	602 Million
Fry Production (2020-21)	215 Million
Fingerling Production (2020-21)	150 Million

Area Wise Breakup



Sources: https://birbhum.gov.in/fisheries/

Area wise break up	No	Water area
≥ 0.034 - <0.20	53445	5152
≥0.20 - < 0.50	26656	8458
≥ 0.50 - <1	8000	5322
≥ 1 - <2.50	1734	2413
≥ 2.50 - <5	133	415
≥5 HA	46	415
Borough pit	319	125
Water-logged	339	654
Reservoir	6	1568
Grand total	90678	24523

2.b. Details of operational area / villages (2024)

Sl. No.	Name of Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified (Crop wise)	Identified Thrust Areas
1.	Illambazar	Illambazar	Daranda	Rice, Wheat, Mustard, Potato, Red Gram, Black Gram etc.; Vegetable like Brinjal, Chili, Tomato, Elephant Foot Yam, Cucurbits; Fruit plants like Mango, Guava, Papaya, Coconut, Banana etc. and Dairy, Goatery, Poultry, Duckery, Fishery, Batique work, Decorative Candle, Post Harvest Technology of fruits and vegetables, Health and Nutrition of Rural Women and Children; Crop Insurance, Group Formation, Market Led Extension, Marketing Mechanisms of Farm produces, Natural Farming, Bee-Keeping.	***Bio physical:*** **Low productivity of all major crops** • Poor and Marginal soil • Low yielding seeds and plants • Limited water resource for irrigation • Imbalanced use of manures and fertilizer • Inappropriate agronomic practices • Inappropriate horticultural practices • Indiscriminate use of chemical pesticide **Poor productivity of livestock** • Inadequate, descriptive and prolific breed • Poor health and management practices • Low quality feed **Poor fish productivity:** • Poor pond management • Poor quality fingerlings **Low-income generation of rural women** • Lack of skill on income generating rural crafts • Lack of skill on fruits and vegetable preservation • Lack of skill on establishment of backyard nutrition garden **Poor health condition of women and child** • Lack of nutritious food resources • Lack of skill on establishment of backyard nutrition garden ***Socio Economic:*** • Lack of knowledge about soil testing-based fertilizer application • Lack of knowledge on good agronomic and horticultural practices • Lack of knowledge on care handling of plant protection equipment • Lack of knowledge on good dairy, Goatery, poultry management practices • Multi ownership of ponds • Tendency to lease out ponds. • Lack of knowledge on different income generating programme for women • Lack of knowledge on low-cost nutritious food for women and child • Lack of credit facilities • Lack of Insurance facilities for Crops • Lack of Market Information of the produced products • Lack of Backward and Forward Linkages for the farmers and farm women • Lack of well-established producers' Groups like Farmers' Interest Group (FIG), Farmers' Producers' Organization (FPO) • Lack of Established Farmers' Producers' Company (FPC)	• Soil health management Practices • Supply of Quality seeds/seedlings and saplings • Balanced Management Practices for crop nutrition • Good agronomic practices • Good horticultural practices • Good Animal Husbandry Practices • Appropriate Pest Management • Establishment of Mushroom Units • Establishment of Bee-keeping Units • Formation of Self-Help Groups • Formation of Producers' Groups • Formation of Farmers Club • Organization of Exposure visits of Practicing Farmers, Farm Women and Rural Youths • Improved Extension Activities like Kisan Mobile Message Services • Improvement of livestock productivity • Enhancement of fish productivity • Improvement of women led vocation. • Women and childcare • Institutional Credit Flow Mechanism • Crop and Animal and Fishery Insurance facilities. • Establishment of FPCs • Market led Extension. • Dissemination of Agro-Met Advisories
2.	Illambazar	Illambazar	Sahebdanga			
3.	Bolpur-Sriniketan	Bolpur-Sriniketan	Gopalnagar			
4.	Bolpur-Sriniketan	Bolpur-Sriniketan	Mala			
5.	Bolpur-Sriniketan	Bolpur-Sriniketan	Bergram			
6.	Bolpur-Sriniketan	Bolpur-Sriniketan	Khiruli			
7.	Bolpur-Sriniketan	Bolpur-Sriniketan	Rajabhuro			
8.	Dubrajpur	Dubrajpur	Ashanshuli			
9.	Dubrajpur	Dubrajpur	Jhapartala			
10.	Rampurhat – II	Rampurhat – II	Tarapur			
11.	Rampurhat – II	Rampurhat – II	Bejuri			

2. c. Details of Village Adoption Programme:

Name of the villages adopted by Senior Scientist & Head and SMS (2024) for its development and action plan.

Name of village	Block	Action taken for development
Asansuli (Dr. S. Mandal)	Dubrajpur	**A. Skill development Training Programmes** on Preparation of Bio Inputs for Natural Farming and Bee keeping. **B. Skill development Training Programme** on Culture and Use of *Azolla.* **C. Front Line Demonstrations (FLDs)** on Nutri Garden **D. Skill development Training Programmes** on Integrated Pest, Disease and Weed Management in Cereals, Pulses and Oilseeds and Vegetables. **E. Women Empowerment** through Skill Development Training on Rural Crafts, Preservation and Value Addition of Fruits and Vegetables, Homestead Kitchen Gardening. **F. Knowledge development Training Programmes** on Crop Insurance, Kisan Credit Card, Farmers' Clubs, Formation of Self-Help Groups (SHGs), Farmers' Producers Organization (FPOs), Formation of Commodity Interest Groups (CIGs), Marketing Mechanisms and Marketing Channels of Farm Products. **G. Cluster Front Line Demonstrations (FLDs)** on different Pulses and Oilseeds. **H. Training Programme** on formation of Integrated Farming Cluster**.** **I. On Farm Testing (OFT)** on Sulphur Management in Onion, Boron and Lime management in Tomato and Zinc management in Potato. **J. Awareness Generation** of rural women on Health and Hygiene Issues, under Swachhata Activities. **K. Analysis of Soil Samples and preparation and distribution of Soil Health Cards.**
Bergram (Sri S. Mondal)	Bolpur Sriniketan	**A. Skill development Training Programmes** on Preparation of Bio Inputs for Natural Farming and Bee keeping. **B. Skill development Training Programme** on Culture and Use of *Azolla.* **C. Front Line Demonstrations (FLDs)** on Nutri Garden, Pheromone trap, seed treatment with *T. viridi.* **D. Skill development Training Programmes** on Integrated Pest, Disease and Weed Management in Cereals, Pulses and Oilseeds and Vegetables. **E. Women Empowerment** through Skill Development Training on Rural Crafts, Preservation and Value Addition of Fruits and Vegetables, Homestead Kitchen Gardening. **F. Knowledge development Training Programmes** on Crop Insurance, Kisan Credit Card, Farmers' Clubs, Formation of Self-Help Groups (SHGs), Farmers' Producers Organization (FPOs), Formation of Commodity Interest Groups (CIGs), Marketing Mechanisms and Marketing Channels of Farm Products. **G. Cluster Front Line Demonstrations (FLDs)** on different Pulses and Oilseeds. **H. Training Programme** on Scientific Bee keeping and Mushroom cultivation. **I. On Farm Testing (OFT)** on Sulphur Management in Onion. **J. Awareness Generation** of rural women on Health and Hygiene Issues, under Swachhata Activities. **K. Analysis of Soil Samples and preparation and distribution of Soil Health Cards.**
Sahebdanga (Dr. P. Ray)	Illambazar	**A. Skill development Training Programmes** on Preparation of Bio Inputs for Natural Farming and Bee keeping. **B. Skill development Training Programme** on Culture and Use of *Azolla.* **C. Front Line Demonstrations (FLDs)** on Nutri Garden, use of Extension Literature in Vernacular Languages. **D. Skill development Training Programmes** on Integrated Pest, Disease and Weed Management in Cereals, Pulses and Oilseeds and Vegetables. **E. Women Empowerment** through Skill Development Training on Rural Crafts, Preservation and Value Addition of Fruits and Vegetables, Homestead Kitchen Gardening. **F. Knowledge development Training Programmes** on Crop Insurance, Kisan Credit Card, Farmers' Clubs, Formation of Self-Help Groups (SHGs), Farmers' Producers Organization (FPOs), Formation of Commodity Interest Groups (CIGs), Marketing Mechanisms and Marketing Channels of Farm Products. **G. Cluster Front Line Demonstrations (FLDs)** on different Pulses and Oilseeds. **H. Training Programme** on formation of Integrated Farming Cluster**.** **I. On Farm Testing (OFT)** on Boron and Lime Management in Tomato, Performance of SHGs with different commodity groups. **J. Awareness Generation** of rural women on Health and Hygiene Issues, under Swachhata Activities. **K. Analysis of Soil Samples and preparation and distribution of Soil Health Cards.**

Daranda (Dr. M. Khan)	Illambazar	**A. Skill development Training Programmes** on Preparation of Bio Inputs for Natural Farming and Bee keeping. **B. Skill development Training Programme** on Culture and Use of *Azolla.* **C. Front Line Demonstrations (FLDs)** on Nutri Garden, use of Doramectin in Sheep for better growth. **D. Skill development Training Programmes** on Integrated Pest, Disease and Weed Management in Cereals, Pulses and Oilseeds and Vegetables. **E. Women Empowerment** through Skill Development Training on Rural Crafts, Preservation and Value Addition of Fruits and Vegetables, Homestead Kitchen Gardening. **F. Knowledge development Training Programmes** on Crop Insurance, Kisan Credit Card, Farmers' Clubs, Formation of Self-Help Groups (SHGs), Farmers' Producers Organization (FPOs), Formation of Commodity Interest Groups (CIGs), Marketing Mechanisms and Marketing Channels of Farm Products. **G. Cluster Front Line Demonstrations (FLDs)** on different Pulses and Oilseeds. **H. Training Programme** on Prophylactic management of Poultry Birds. **I. On Farm Testing (OFT)** on coloured broiler chicken. **J. Awareness Camp** on Hygienic Animal Husbandry under Swachhata Activities. **K. Animal Health Camp for Vaccination.**
Gopalnagar (Sayak Mahato)	Bolpur Sriniketan	**A. Skill development Training Programmes** on Preparation of Bio Inputs for Natural Farming and Bee keeping. **B. Skill development Training Programme** on Culture and Use of *Azolla.* **C. Front Line Demonstrations (FLDs)** on Nutri Garden. **D. Skill development Training Programmes** on Integrated Pest, Disease and Weed Management in Cereals, Pulses and Oilseeds and Vegetables. **E. Women Empowerment** through Skill Development Training on Rural Crafts, Preservation and Value Addition of Fruits and Vegetables, Homestead Kitchen Gardening. **F. Knowledge development Training Programmes** on Crop Insurance, Kisan Credit Card, Farmers' Clubs, Formation of Self-Help Groups (SHGs), Farmers' Producers Organization (FPOs), Formation of Commodity Interest Groups (CIGs), Marketing Mechanisms and Marketing Channels of Farm Products. **G. Cluster Front Line Demonstrations (FLDs)** on different Pulses and Oilseeds. **H. Training Programme** on formation of Integrated Farming Cluster**.** **I. On Farm Testing (OFT)** on Coloured Cauliflower. **J. Awareness Generation** of rural women on Health and Hygiene Issues, under Swachhata Activities. **K. FLD on Coloured Poultry Bird.**

2.1 Priority Thrust Areas.

Sl. No.	Thrust Area
01.	Crop diversification through introduction of Pulses, Oilseeds, major Millets, Horticultural crops like Elephant Foot Yam, Drumstick and High Value Low Volume Horticultural Products like Capsicum, Broccoli, Colored Cauliflower, Brussel's Sprout etc.
02.	Popularization of High Yielding Varieties (HYVs) of major Crops like Rice, Wheat, Mustard, Potato etc. as well as traditional Indigenous Varieties of those Crops.
03.	Cultivation of field Crops which require least water in the Drier regions of the district and cultivation of suitable Horticultural Crops in those regions.
04.	Popularization of improved management practices of Animals, Birds and Fishes
05.	Women empowerment through Rural Crafts and Nutritional Management of Rural Women and Children
06.	Market led Extension, Crop Insurance, Institutional Rural Credit Flow Mechanism and formation and management of Farmers' Groups.
07.	Soil Health Management by popularising organic/natural farming practices
08.	Increment of income of farm family by popularising the practice of Bee Keeping, Mushroom cultivation, Goat farming etc. along with other 2ndary Agril. practices

3. TECHNICAL ACHIEVEMENTS

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

OFT												FLD											
No. of technologies tested: 08												No. of technologies demonstrated: 26											
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
08	08	62	30	7	4	0	17	4	51	11	62	1500	1558	1500	167	390	220	170	303	250	690	810	1500

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
78	254	2500	1168	903	334	329	6279	1020	7781	2252	10033	175	184	4980	1058	514	529	257	1942	944	3529	1715	5244

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
150	93	13	33	01	05	28	13	42	51	93	4980	5244	1058	514	529	257	1942	944	3529	1715	5244

Seed production (q)		Planting material (in Lakh)	
Target	Achievement	Target	Achievement
30	66.23	0.50	0.76250

Livestock strains and fish fingerlings produced (in lakh) *		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
0.01000	0.01854	0.00150	0.00025

* 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	01	Not Assessed					
Seminar/conference/ symposia papers	01	Not Assessed					
Books	-	-					
Bulletins	-	-					
Newsletter	-	-					
Popular Articles	-	-					
Book Chapter	02	Not Assessed					
Extension Pamphlets/ literature	08	4000					
Technical reports	11	Not Assessed					
Electronic Publication (CD/DVD etc.)	-	-					
Published in You Tube Channel	-	-					
TOTAL	**23**	Not Assessed					

3.1. Achievements on technologies assessed and refined.
Rabi, 2023-24

OFT – 1

1.	**Title of On farm Trial**	Assessment of Zinc & Boron application in quality and yield of Tomato in lateritic soil of Birbhum District (2nd Year)
2.	**Problem diagnosed**	In lateritic acid soil of Birbhum district micronutrient deficiency is very prominent. Stunted growth and cracking of fruits in Tomato is very common. Due to these problems the yield and market price of tomato is reduced
3.	**Details of technologies selected for assessment/refinement**	Farmers' Practice: With Recommended Fertilizer without any micronutrient Technology Option I: Recommended Fertilizer with recommended dose of soil application of Zinc and Boron as basal application Technology Option II: Recommended Fertilizer with Foliar application of Zinc EDTA @ 1g/lt of water and Boron-20 @ 2g/lt of water twice at 25 and 45 DAT
4.	**Source of Technology (ICAR / AICRP / SAU / other, please specify)**	Effect of foliar application of micronutrients in tomato. The Asian Journal of Horticulture: 9 (2): 297-300 Saravaiya *et al.* 2014
5.	**Production System** **Thematic Area**	Paddy-Tomato- Summer vegetables Nutrient Management
6.	**Performance of the Technology with performance indicators**	**recommended fertilizer with** Foliar application of Zinc EDTA @ 1g/lt of water and Boron-20 @ 2g/lt of water twice at 25 and 45 DAT produced significantly better fruit size (56 g) , No. of healthy fruits /plant (31) and yield (45.9 t /ha) along with higher B:C ratio (7.72) than Technology option-I i.e Recommended Fertilizer with recommended dose of soil application of Zinc and Boron and Farmers practice
7.	**Final recommendation for micro level situation**	Tomato should be cultivated with recommended fartiliser dose along with foliar spray of Zinc EDTA @ 1g/lt of water and Boron-20 @ 2g/lt of water twice at 25 and 45 DAT for better yield and quality
8.	**Constraints identified** **feedback for research**	Collection of data was found difficult due to rain before the sowing time. Effect of other micronutrient like Cu may also be tested for some growth disturbance of fruits
9.	**Process of farmers participation and their reaction**	Farmers actively participated in the day-to-day monitoring of the crop and data collection with KVK scientists. Farmers also incurred all the labour cost for cultivation

Table 1: Effect of Zinc and Boron application on yield of tomato at red and lateritic soil of Birbhum

Treatment	No of trials	Av. Fruit Size (g)	Av. no. of healthy fruits / plant	Yield (t/ha)	Gross cost (₹)	Gross return (₹)	Net Return (₹)	B:C ratio
Farmers' Practice: With Recommended Fertilizer without any micronutrient	7	43	20	30.7	68900	368400	299500	5.34
Technology Option I: Recommended Fertilizer with recommended dose of soil application of Zinc and Boron		49	27	40.9	69800	490800	421000	7.03
Technology Option II: Recommended Fertilizer with Foliar application of Zinc EDTA @ 1g/lt of water and Boron-20 @ 2g/lt of water twice at 25 and 45 DAT		56	31	45.9	71300	550800	479500	7.72
Sem ±		1.04	0.88	1.40				0.21
CD (p=0.05)		3.03	2.66	4.23				0.66

Results: From the table it is clear that Technology option -II i.e recommended fertilizer with Foliar application of Zinc EDTA @ 1g/lt of water and Boron-20 @ 2g/lt of water twice at 25 and 45 DAT produced significantly better fruit size (56 g) , No. of healthy fruits /plant (31) and yield (45.9 t /ha) along with higher B:C ratio (7.72) than Technology option-I i.e Recommended Fertilizer with recommended dose of soil application of Zinc and Boron and Farmers practice

OFT-2

1.	**Title of On farm Trial**	Assessment of Lime and Boron application on quality and productivity of Potato in lateritic soil of Birbhum District (2nd year)
2.	**Problem diagnosed**	In lateritic acid soil micronutrient deficiency of boron causes cracking the potato tuber and soil acidity increases the scab diseases in different parts of Birbhum district. Due to these problems the yield and market price of potato is reduced.
3.	**Details of technologies selected for assessment/refinement**	Farmers' Practice: With Recommended Fertilizer without any micronutrient and lime Technology Option I: Recommended Fertilizer + Lime @ 10 % of the recommended dose + soil application of Boron @ 4 kg/ha as basal application Technology Option II: Recommended Fertilizer + Lime @ 10 % of the recommended dose + foliar application Boron-20 @ 2g/lt of water twice at 25 and 45 DAT
4.	**Source of Technology (ICAR / AICRP / SAU / other, please specify)**	Effect of applied lime and boron on the availability of nutrients in an acid soil. Journal of Plant Nutrition. 37 (3): 357-373 Barman *et al*. 2014
5.	**Production System** **Thematic Area**	Paddy-Potato- Sesame/Blackgram Nutrient Management
6.	**Performance of the Technology with performance indicators**	Technology Option I i.e Recommended Fertilizer + Lime @ 10 % of the recommended dose + soil application of Boron @ 4 kg/ha as basal application produced larger tuber size (75.9 g), no. of healthy tubers (5.9), yield (32.11 t/ha) and higher B:C ratio of 3.61 than those of Technology Option II: Recommended Fertilizer + Lime @ 10 % of the recommended dose + foliar application Boron-20 @ 2g/lt of water twice at 25 and 45 DAT (tuber size 70.6g, no. of tubers 5.4, yield of 30.99 t/ha and B:C ratio of 3.45) and farmers practice
7.	**Final recommendation for micro level situation**	Potato cultivation with Recommended Fertilizer + Lime @ 10 % of the recommended dose + soil application of Boron @ 4 kg/ha as basal application produced better potato yield with better quality
8.	**Constraints identified** **feedback for research**	Fog during data collection created problems. Effect of different source of nutrients may be tested for lesser cost of cultivation
9.	**Process of farmers participation and their reaction**	Farmers actively participated in the day-to-day monitoring of the crop and data collection with KVK scientists. Farmers also incurred all the labour cost for cultivation

Table 2: Effect of Lime and Boron application on quality and productivity of Potato in lateritic soil of Birbhum District

Treatment	No of trials	Av. Tuber Size (g)	Av. no. of healthy tubers / plant	Yield (t/ha)	Gross Cost (₹)	Gross Return (₹)	Net Return (₹)	B:C ratio
Farmers' Practice: With Recommended Fertilizer without any micronutrient and lime	7	65.1	4.5	24.36	112000	316680	204680	2.82
Technology Option I: Recommended Fertilizer + Lime @ 10 % of the recommended dose + soil application of Boron @ 4 kg/ha as basal application		75.9	5.9	32.11	115500	417430	300370	3.61
Technology Option II: Recommended Fertilizer + Lime @ 10 % of the recommended dose + foliar application Boron-20 @ 2g/lt of water twice at 25 and 45 DAT		70.6	5.4	30.99	116800	402870	301930	3.45
Sem ±		1.20	0.07	0.38				0.03
CD (p=0.05)		3.66	0.21	1.15				0.09

Results: From the table it is revealed that Technology Option I i.e. Recommended Fertilizer + Lime @ 10 % of the recommended dose + soil application of Boron @ 4 kg/ha as basal application produced significantly larger tuber size (75.9 g), no. of healthy tubers (5.9), yield (32.11 t/ha) and higher B:C ratio of 3.61 than those of Technology Option II: Recommended Fertilizer + Lime @ 10 % of the recommended dose + foliar application Boron-20 @ 2g/lt of water twice at 25 and 45 DAT (tuber size 70.6g, no. of tubers 5.4, yield of 30.99 t/ha and B:C ratio of 3.45) and farmers practice

OFT-3

1.	**Title of On farm Trial**	Assessment of Sulphur Application in Productivity Enhancement of Onion under Laterite Track of Birbhum District, West Bengal (2nd year)
2.	**Problem diagnosed**	Sulphur is an important nutrient that affects the yield and quality of onion. Red and Laterite soils of West Bengal found deficient in sulphur ranged from 13 to 73 per cent with an average of 45.2 per cent. Among them, as per SAI (Sulphur Availability Index) 87 per cent of the surface soil samples of Birbhum district fall under low sulphur range. Severe sulphur deficiency during bulb development has detrimental effect on yield and quality of onion.
3.	**Details of technologies selected for assessment/refinement**	Farmers' practice: NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK) and Urea (N) Technology option I: NPK application @ 125-100-100 kg/ha; Source of fertilizer as Urea (N), SSP (16% P_2O_5 + 12% S) and MOP (K_2O) Technology option II: NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK), Urea (N) + Sulphur 40 kg/ha (basal)
4.	**Source of Technology (ICAR / AICRP / SAU / other, please specify)**	Shreya Mondal, G. K. Ghosh and Joydip Mandal. 2020. Effect of Graded Levels of Sulphur as Magnesium Sulphate on Yield and Quality of Onion (*Allium cepa* L.) in Red and Lateritic Soils of West Bengal, India. *International Journal of Current Microbiology and Applied Sciences.*9(4): 2858-2866
5.	**Production System** **Thematic Area**	Paddy-Onion-Summer vegetables Nutrient management
6.	**Performance of the Technology with performance indicators**	Technology option II i.e. NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK), Urea (N) + Sulphur 40 kg/ha (basal) in onion produced significantly better bulb size (60.3 g), yield (27.85 t/ha) and B:C ratio of 5.06 than those of Technology option I: NPK application @ 125-100-100 kg/ha; Source of fertilizer as Urea (N), SSP (16% P_2O_5 + 12% S) and MOP (K_2O) (bulb size-59.7g, yield 24.38 t/ha and B:C ratio 4.54) and farers practice.
7.	**Final recommendation for micro level situation**	Application of Sulfur in the Technology option II i.e. NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK), Urea (N) + Sulphur 40 kg/ha (basal) in onion produced significantly better bulb size (60.3 g), yield (27.85 t/ha)
8.	**Constraints identified feedback for research**	Rain at initial stage causes seedling loss. In case kharif onion effect of sulfur source may be tested
9.	**Process of farmers participation and their reaction**	Farmers actively participated in the day-to-day monitoring of the crop and data collection with KVK scientists. Farmers also incurred all the labour cost for cultivation

Table 3: Effect of Sulphur Application in Productivity Enhancement of Onion under Laterite Track of Birbhum District, West Bengal

Treatment	No of trials	Av. bulb Size (g)	Yield (t/ha)	Gross Cost (₹)	Gross Return (₹)	Net Return (₹)	B:C ratio
Farmers' practice: NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK) and Urea (N)	7	48.2	21.38	80000	320700	240700	4.0
Technology option I: NPK application @ 125-100-100 kg/ha; Source of fertilizer as Urea (N), SSP (16% P_2O_5 + 12% S) and MOP (K_2O)		60.2	25.42	80500	367800	287300	4.57
Technology option II: NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK), Urea (N) + Sulphur 40 kg/ha (basal)		60.7	28.20	82500	423000	340500	5.12
Sem ±		2.88	1.06				0.04
CD (*p*=0.05)		8.7	3.2				0.12

Results: From the table it is clearly revealed that Technology option II i.e. NPK application @ 125-100-100 kg/ha; Source of fertilizer as 10-26-26 (NPK), Urea (N) + Sulphur 40 kg/ha (basal) in onion produced significantly better bulb size (60.7 g), yield (28.20 t/ha) and B:C ratio of 5.12 than those of Technology option I: NPK application @ 125-100-100 kg/ha; Source of fertilizer as Urea (N), SSP (16% P_2O_5 + 12% S) and MOP (K_2O) (bulb size-60.2 g, yield 25.42 t/ha and B:C ratio 4.57) and farers practice.

OFT-4

1.	**Title of On farm Trial**	Assessment of optimum planting times of coloured Cauliflower in lateritic soil of Birbhum (2nd year)
2.	**Problem diagnosed**	Due to cultivation of longer duration paddy the land for Cauliflower cultivation is not available in time. Therefore, farmers plant Cauliflower in delayed winter which cause smaller curd size and more pest and disease attack. Due to depletion of soil moisture, irrigation cost is increased. Furthermore, coloured cauliflower is new introduction to the farmers without knowing the optimum planting time
3.	**Details of technologies selected for assessment/refinement**	Farmers' Practice: Planting on Third week of November Technology Option - I: Planting on November 1st week Technology Option – II: Planting on November 2nd week
4.	**Source of Technology (ICAR / AICRP / SAU / other, please specify)**	S. Islam, S. Datta and Ranjit Chatterjee: Influence of Planting Date on Performance of Cauliflower (Brassica oleracea var. botrytis L.) Varieties at Terai Region of West Bengal, India. International Journal of Bio-resource and Stress Management, 7(3):426-431(2016).
5.	**Production System** **Thematic Area**	Paddy — Mustard/Potato/ Winter Vegetables-Black Gram Climate resilient production technology.
6.	**Performance of the Technology with performance indicators**	The highest recorded net curd weight (1.45 kg) was produced by the 1st week of November planting. The lowest recorded net curd weight (719 gm) was produced by the 3rd week of November planting i.e. farmers practice. Maximum curd yield was recorded by 1st week of sowing (28.8 t ha-1) followed by 2nd week of sowing (28.3 t ha-1) and then 3rd week of November i.e. 20.7 t ha-1
7.	**Final recommendation for micro level situation**	Farmers should shift the sowing date from 3rd week of November to 1st or 2nd week of November.
8.	**Constraints identified.** **feedback for research**	Early seedling preparation is found difficult due to late rainfall Besides planting time, micronutrient application research may be undertaken
9.	**Process of farmers participation and their reaction**	The average selling price of cauliflower per price after harvesting was Rs. 30/- to 35/- and sometime 40/- per piece when it was cultivated on 1st or 2nd week and it will decrease to 15/- to 20/- per piece when it was cultivated on 3rd week

Table 4: Effect of assessment of optimum planting times of Coloured cauliflower under Laterite Track of Birbhum District, West Bengal

Technology option	No. of trials	Yield (t/ha)	Cost of cultivation (Rs. / ha)	Gross return (Rs. / ha)	Net Return (Rs. / ha)	BC Ratio
Farmers' practice: Planting on Third week of November	7	20.7	147000	621000	474000	4.22
Technology Option I: Planting on November 1st week		28.8	147000	864000	717000	5.88
Technology Option II: Planting on November 2nd week		28.3	147000	849000	702000	5.77
CD		1.77				

Results: From the table it is clearly revealed that the highest recorded net curd weight (1.45 kg) was produced by the 1st week of November planting. The lowest recorded net curd weight (719 gm) was produced by the 3rd week of November planting i.e. farmers' practice. Maximum curd yield was recorded by 1st week of sowing (28.8 t ha-1) followed by 2nd week of sowing (28.3 t ha-1) and then 3rd week of November i.e. 20.7 t ha-1. This may be due to crops get optimum moisture availability for first and second week. Besides that, third week planting faces lower temperature at the primary stage of growth and on the other hand they also face higher temperature at the time of curd formation and maturation time.

Kharif, 2024

OFT- 5

Title	Assessment of different fertilizer doses for Finger Millet (Ragi) production under rainfed condition of Birbhum district (1st year)
Problem Diagnosed	This will also be a good option as crop diversification in the rainfed mono-cropped area of Birbhum district. This crop can be grown in case of prolonged drought situation. However, this crop is more or less new to the farmers of Birbhum district. The appropriate recommendation specifically for the Birbhum district is not available adequately.
Hypothesis	Cultivation of millet with proper dose of fertilizer may increase the yield and net return.
Farmer's practice	Generally, farmers use a blanket application of fertilizer with only DAP as basal @18:46:0 N-P-K kg/ha
Micro-farming situation	Finger millet is cultivated in rainfed condition. Soil is sandy loam in texture having pH 5.8-6.2 in this district.
Production System	Millet-fallow
Thematic area	Crop Diversification
Objective	To assess the appropriate rate of fertilizer application for finger millet cultivation under rainfed condition
Sowing Time	July-August, 2024
Details of Technology assessment	Farmers Practice- 18-46-0 N-P- K Kg/ha Technology Option-I- 60-30-30 N-P-K Kg/ha Technology Option-II- 40-30-30 N-P-K Kg/ha Technology Option-Ill- 50-30-30 N-P-K Kg/ha
Source of Technology	**Tamil Nadu Agricultural University Agritech Portal**
Performance of the Technology with performance indicators	From the table it is clear that Technology option -I i.e fertilizer dose with higher nitrogen content i.e 60-30-30 N-P-K Kg/ha produced significantly more tillers (52.88/plant) , av finger /plant (4.4), av. Seeds /ear head (2535) and yield (2.82 t /ha) along with higher B:C ratio (3.47)
Final recommendation for micro level situation	Farmers should apply a fertiliser dose of 60-30-30 N-P-K Kg/ha for cultivating finger millet in kharif season
Constraints identified. **feedback for research**	Weed infestation will be more if timely weeding is not done Higher phosphorus application may be tried
Process of farmers participation and their reaction	The average selling price of finger millet was Rs. 50/- per kg and it is more profitable than rice cultivation in kharif season

Table: Effect fertilizer doses for Finger Millet (Ragi) production under rainfed condition of Birbhum district

Treatment	No of trials	No. of tillers / plant	Av. Finger/plant	Av. no. of seeds / ear head	Yield (t/ha)	Gross cost (₹)	Gross return (₹)	Net Return (₹)	B:C ratio
Farmers Practice- 18-46-0 N-P- K Kg/ha	7	22.99	2.5	1226	1.00	38470	50000	11530	1.29
Technology Option-I- 60-30-30 N-P-K Kg/ha		52.88	4.4	2535	2.82	40570	141000	100430	3.47
Technology Option-II- 40-30-30 N-P-K Kg/ha		38.26	3.5	1895	1.93	39170	96500	57330	2.46
Technology Option-Ill- 50-30-30 N-P-K Kg/ha		46.80	4.1	2269	2.45	39870	122500	82630	3.07
Sem ±		2.36	0.64	113.2	0.41				
CD (p=0.05)		6.85	1.85	328.4	1.19				

Results: From the table it is clear that Technology option -I i.e fertilizer dose with higher nitrogen content i.e 60-30-30 N-P-K Kg/ha produced significantly more tillers (52.88/plant) , av finger /plant (4.4), av. Seeds /ear head (2535) and yield (2.82 t /ha) along with higher B:C ratio (3.47) than Technology option-II i.e - 40-30-30 N-P-K Kg/ha, Technology Option-Ill- 50-30-30 N-P-K Kg/ha a**nd** Farmers Practice- 18-46-0 N-P- K Kg/ha

	pH				O.C (%)				Avl. N (kg/ha)				Avl. P2O5 (kg/ha)				Avl. K2O (kg /ha)			
Before the crop	6.2				0.41				239				17				206			
	FP	TO1	TO2	TO3	FP	TO1	TO2	TO3	FP	TO1	TO2	TO3	FP	TO1	TO2	TO3	FP	TO1	TO2	TO3
After the crop	6.5	6.4	6.3	6.3	0.47	0.40	0.42	0.42	201	252	241	246	29	20	25	24	151	210	215	222

OFT – 6

Season	2024
Title of On Farm Trial	Assessing efficacy of Method of Transfer of Technology regarding Millet Cultivation
Thematic Area	Methodology of Transfer of Technology
Problem Diagnosed	The chosen Method of Transfer of Technology largely affects the adoption of any given Technology with special reference to economic benefit arising out of that Technology.
Hypothesis	The Methods of Transfer of Technology which emphasizes Skill Training will influences more adoption of the Technology as well as increased level of Income from that specific adopted Technology.
Details of Technologies selected for assessment / Refinement	**Assessment** **Farmers' Option / Prevalent Practice = T_1 = Information and Knowledge Development Training** **T_2= Skill Development Training (Duration – Less than 40 Hours)** **T_3= Skill Development Training (Duration – 40 Hours or More)** **T_4 = Method Demonstration** **T_5 = Result Demonstration**
Source of Technology	Overview of Frontline Extension Tools and Designing OFTs in Extension, R. Roy Burman, ICAR-IARI, New Delhi
Prevalent Practice	Most of the Transfer of Technology Methods are Information and Knowledge Development Training Programmes.
Present Situation	Generally, in West Bengal situation, most of the Transfer of Technology Methods are Information and Knowledge Development Training Programmes.
Performance of the Technology with Performance Indicators	The Programme is going on. **Performance Indicators: -** • Percentage of Adoption by the Practicing Farmers and Farm Women to whom the Millet Cultivation Technology has been transferred. • Average Yearly Net Income from Millet Cultivation from the Adopted Farmers and Farm women.
Final Recommendation for micro level situation	The Programme is going on.
Constraints Identified and Feedback for Research	The Programme is going on.
Process of Farmers Participation and their reaction	Trainee / Partner Farmers are actively participating in the day-to-day monitoring and data collection with KVK scientists.

OFT- 7

01.	**Title of on farm Trial**	Effect of herbal galactagogues on milk production in crossbreed milch cattle
02.	**Problem diagnosed**	Indiscriminate and prolonged use of feed additives, hormones, drugs and synthetic compounds develop adverse effects
03.	**Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)**	Control: Farmer's practice (Basal diet) Technology Option I: Satavari (Root) + Chandrasoor (Seed) + Fenugreek (Seed) mixed in the ratio of 1:1:1 (30gm/day) Technology Option II: Satavari (Root) + Chandrasoor (Seed) + Fenugreek (Seed) mixed in the ratio of 1:1:1 (60 gm/day) Technology Option III: Satavari + Chandrasoor + Fenugreek mixed in the ratio of 1:1:1 (90 gm/day) Feeding: Administration will start after calving and will be continued for consecutive two months.
04.	**Source of Technology (ICAR/ AICRP/SAU/other, please specify)**	1.Patel, V.K., Chauhan,H.D. , Pawar, M.M. , Srivastava , A.K and Prajapati ,K.B. 2017. Effect of Herbal Galactagogue Supplementation on Production Performance of Lactating Kankrej Cows. International Journal of Current Microbiology and Applied Sciences ,6 (12):2093-2098 2.Naik, Y.K., Mugale, A., Qureshi, M.A., Sahu, S and Choudhary, P.I. 2018. Effect of feeding Chandrasoor (*Lipidum Sativum* L.) as Feed supplement on Milk Yield in Indian Cows
05.	**Production system and thematic area**	Semi Intensive system: Dairy Management
06.	**Performance of the Technology with performance**	Technology Option III: Satavari + Chandrasoor + Fenugreek mixed in the ratio of 1:1:1 (90 gm/day) was found significant
07.	**Final recommendation for micro level situation**	Technology Option III: Satavari + Chandrasoor + Fenugreek mixed in the ratio of 1:1:1 (90 gm/day)
08.	**Constraints identified and feedback for research**	Chandrasoor seed is not easily available in local market
09.	**Process of farmers participation and their reaction**	Farmers actively participated in the day-to-day monitoring and data collection with KVK Scientists. Farmers incurred all the cost of feed and other infrastructure

Thematic area: Dairy management

Problem definition: Indiscriminate and prolonged use of feed additives, hormones, drugs and synthetic compounds in milch cattle as galactagogue develop adverse effects

Technology assessed: Evaluation of effect of herbal galactagogues on milk production in crossbreed milch cattle

Table: Effect of herbal galactagogues on milk production in crossbreed milch cattle

Technology option	No. of trials	Milk yield (Lit / wk / cow)	Fat %	SNF %	Cost of farming (Rs/Unit)	Gross return (Rs/unit)	Net return (Rs. / unit)	BC ratio
Control: Farmer's practice (Basal diet)	10	52.46±0.43	3.48±0.05	8.13±0.05	9,500/	20984/	11484	2.20
Technology Option I: Satavari (Root) + Chandrasoor (Seed)+Fenugreek (Seed) mixed in the ratio of 1:1:1 (30gm/day)	10	54.35±0.38	3.54±0.05	8.48±0.05	9775	21740	11965	2.22
Technology Option II: Satavari (Root) + Chandrasoor (Seed)+Fenugreek (Seed) mixed in the ratio of 1:1:1 (60 gm/day)	10	58.61±0.41	3.65±0.04	8.65±0.04	10000/	23,444/	13444	2.34
Technology Option III: Satavari + Chandrasoor+ Fenugreek mixed in the ratio of 1:1:1 (90 gm/day)	10	61.82±0.35	3.83±0.04	8.71±0.04	10275/	24,728	14453	2.40

Results: Technology Option III: Satavari + Chandrasoor + Fenugreek mixed in the ratio of 1:1:1 (90 gm / day) was found significant with 17.84 % increase in milk yield and increased B/C ratio over 2.40 over 2.20 of the control (Farmers' practice)

OFT-8

01.	**Title of on farm Trial**	Assessment of different form of "Pashu Chocolate (UMMB)" in lactating dairy cattle	
02.	**Problem diagnosed**	Poor feeding practice and the low availability of quality feeds in unorganized dairy farming by small and marginal farmer	
03.	**Details of technologies selected for assessment/refinement (Mention either Assessed or Refined)**	Control: Farmer's practice (Basal diet) Technology Option I: Block form1+ Farmer's practice Technology Option II: Block Form 2+Farmer's practice	
		Formula of UMMB 1 Wheat Bran-850 gm Molasses-750 gm Mineral mixture-40 gm Urea-200 gm Common salt-20 gm Vit AD_3 - 200 mg Calcium carbonate-200 gm	Formula of UMMB 2: Molasses-750 gm Mineral mixture-40 gm Common salt-20 gm Vit AD_3-200 mg Wheat bran-850 gm Urea -100 gm MOC-100 gm
04.	**Source of Technology (ICAR/ AICRP/SAU/other, please specify)**	ICAR-IVRI - Izatnagar	
05.	**Production system and thematic area**	Nutrition management	
06.	**Performance of the Technology with performance indicators**	Technology Option I was found significant	
07.	**Final recommendation for micro level situation**	Technology Option I should be added with basal diet	
08.	**Constraints identified and feedback for research**	Poor feeding practice and the low availability of quality feed	
09.	**Process of farmers participation and their reaction**	Farmers actively participated in the day-to-day monitoring and data collection with KVK Scientists. Farmers incurred all the cost of	

Thematic area: Nutrition management

Problem definition: Poor feeding practice and the low availability of quality feed

Technology assessed: Assessment of different form of Pashu Chocolate (UMMB) in lactating dairy cattle

Table: Assessment of different form of Pashu Chocolate (UMMB) in lactating dairy cattle

Technology option	No. of trials	Milk yield (Lit / wk / cow)	Fat %	SNF %	Cost of farming (Rs/Unit)	Gross return (Rs/unit)	Net return (Rs. / unit)	BC ratio
Control: Farmer's practice (Basal diet)	10	54.24±0.48	3.51±0.05	8.23±0.05	9500	21696	12196	2.28
Technology Option I: Block form1+ Farmer's practice	10	59.36±0.36	3.75±0.04	8.48±0.04	9650	23744	14094	2.46
Technology Option II: Block Form 2+Farmer's practice	10	57.27±0.43	3.63±0.04	8.35±0.04	9635	22908	12873	2.38

Results: Technology Option I was found significant with 17.84 % increase in milk yield and increased B/C ratio over 2.46 over 2.28 of the control (Farmers' practice)

OFT – 9

Season	**Pre-kharif, 2024 (1st Year)**
Title of On Farm Trial	Assessment of different control measures of collar rot disease of Elephant Foot Yam under Laterite soil of Birbhum
Problem Diagnosed	Collar rot disease of EFY causes severe loss in yield of EFY cultivation and reduces the benefit
Hypothesis	Control of collar rot disease may increase the EFY yield and also improves its quality
Farmers' practice	Farmers do not take care at all about collar rot disease of EFY
Production system	Elephant Foot Yam- vegetables
Thematic Area	Disease management
Source	Annual Report, Department of Plant Pathology, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan, Birbhum
Objective	To study the effect of different control measures for collar rot disease
Details of technology assessment	**Farmers' practice: No such control measures** **Technology option I: Tuber Treatment and spraying with carbendazim** **Technology option II: Soil Application and tuber treatment with Trichoderma viridae** **Technology option III: Application of Plaster of Paris in collar region after infection**
Programme is going on.	

OFT - 10

Season	**Rabi, 2024 (1st Year)**
Title of On Farm Trial	Assessment of natural farming in quality and yield of Tomato in lateritic soil of Birbhum District
Problem Diagnosed	Tomato produced in the district is mostly perishable with in short period which create tremendous loss in marketing and income. The tomato plants and fruits are very much susceptible to different pest and diseases. Thus, it increases the cost of pesticides application. Besides, the soil health becomes poorer.
Hypothesis	Natural farming may reduce the problems and may increase the quality and yield of Tomato
Farmers' practice	Farmers cultivate tomato totally with chemical fertilizer and pesticide application
Production system	Paddy-Tomato- Summer vegetables
Thematic Area	Conservation Agriculture
Source	Papers presented in the Zonal Workshop on Natural Farming at Visva-Bharati on February, 2024
Objective	To increase the quality and productivity of tomato, maximize the profit and maintenance of soil health
Details of technology assessment	**Farmers' Practice: With chemical Fertilizer and pesticide** **Technology Option I: Totally with Organic Manure and chemical pesticide** **Technology Option II: Totally with Natural Farming inputs like Jeebamrita, Beejamrita, Neemastra, Agneastra and Achhadana (Mulching)**
Programme is going on.	

3.2 Achievements of Front-Line Demonstration (FLDs)

A. Details of FLDs conducted during the year.

Cereals under SCSP

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	Wheat, Rabi, 2023-24	Varietal replacement	HD 2967		4	9	5	1	0	4	0	14	5	**19**	
2	Paddy Kharif, 2024	Varietal replacement	Ranidhan (IET 19418)	-	25.6	0	41	0	13	0	4	0	58	**58**	
			Paddy var CR 800		11.8	0	41	0	13	0	4	0	58	**58**	
			Dhiren		11.8	23	16	10	3	6	2	39	21	**60**	
			MTU 1153		7.2	4	11	5	4	5	4	14	19	**33**	
3	Wheat, Rabi, 2024-25	Varietal replacement	Unnat PBW 343		3									**20**	
	Total				**63.4**									**248**	

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					
Wheat var HD 2967	Rabi 2023-24	Irrigated medium land	Sandy loam soil with lower PH	Medium	Low	High	Rice	1-10 December, 2023	-Crop in the field		
Paddy var Ranidhan (IET 19418)	Kharif,2024	Monocropped medium land	Sandy loam soil with lower pH	Medium	Low	High	Fallow	1-15thAug., 2024	1-10th Dec. 2024	-	-
Paddy var CR 800	Kharif,2024	Monocropped medium land	Sandy loam soil with lower pH	Medium	Low	High	Fallow	1-15thAug., 2024	21-27th Nov. 2024		
Paddy var MTU 1153	Kharif,2024	Monocropped medium land	Sandy loam soil with lower pH	Medium	Low	High	Fallow	1-15thAug., 2024	1-7th Nov. 2024		
Wheat var Unnat PBW-343	Rabi 2024-25	Irrigated medium land	Sandy loam soil with lower PH	Medium	Low	High	Rice	1-10 December, 2023	-Crop in the field		

Performance

Cereals

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
Wheat	Crop Diversification	Improved variety HD 2967	19	4	43.4	38.0	11.3	42750	104860	62110	2.4	43000	91200	48200	2.1
Paddy	Crop Diversification	Improved variety Ranidhan	58	25.6	67.2	58.3 (Lal swarna)	15.3	60900	147840	86940	2.4	63,000	128260	65260	2.0
	Crop Diversification	Improved variety CR 800	58	11.8	66.7	58.3 (Lal swarna)	14.4	60900	146740	85840	2.4	63,000	128260	65260	2.0
	Crop Diversification	Improved variety Dhiren	60	11.8	66.2	58.3 (Lal swarna)	13.5	60900	145640	84740	2.4	63,000	128260	65260	2.0

	Crop Diversification	Improved variety MTU 1153	33	7.2	47.2	40.5	16.5	49000	103840	54840	2.0	51000	89100	38100	1.7
Wheat	Crop Diversification	Improved variety Unnat PBW-343	20	3	Crop is now in flowering stage										

Frontline demonstrations on oilseed crops

Oilseeds: Under SCSP

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
Mustard	Crop Diversification	PM 28	368	81.87				Crop now in fruiting stage							
Total			368	81.87											

*** 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**

Frontline demonstrations on Pulse crops

Pulses: Under SCSP

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	Crop Diversification	Improved variety Purba	4	2	Crop now in flowering stage										
Lentil	Crop Diversification	Improved variety L-4717	117	20	Crop now in flowering stage										
Total			**121**	**22**											

*** 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)			
					Demo	Check			Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Azolla Kharif 2024	Soil Health Management	Green manuring in rainy season paddy var. Ranidhan (IET19418)	136	20	68.3 (Paddy Yield)	56.9 (Paddy Yield)	20.03	No. of panicles/m^2	399	380	58800	129770	70970	2.21	62150	108110	45960	1.73
Brinjal Kharif, 2024	Crop improvement	Grafted Brinjal Var. VNR 212	44	0.1	670.4	599.2	12.0	Fruit size (g)	140	110	109000	670400	553500	6.15	104000	599200	495200	5.76
Ekangi Pre kharif 2023	Crop diversification	Planting Materials and Methods of Cultivation	28	0.26	135.3	New Introduction	-	Rhizome Size (cm)	3.5	-	130000	811800	681800	6.24	-	--	-	-
Drumstick Kharif, 2024	Varietal Replacement	PKM-1	50	0.35	47.9	17.7 (Local)	170.1	Pod length (Cm)	45	28	68000	407150	339150	5.99	54000	150400	96400	2.79
Finger Millet kharif, 2024	Crop diversification	Variety Indravati	20	2	34.9	18.8	87.8	No. of Fingers per plant	7.3	3.6	32600	122150	89550	3.75	31000	65800	34800	2.12
Turmeric	Varietal replacement	Saguna	37	0.13	215.2	147.0 (Local)	46.4	Rhizome Weight (g)	32.7	20.9	127000	860800	733800	6.8	117000	592000	475000	5.05
Elephant Foot Yam Kharif,2024	Varietal replacement	Bidhan Kusum	20	0.14	688.3	242.5 (Local)	183.8	Corn size (Cm)	31	10	126000	688300	556000	5.46	86000.	242500	156500	2.82
Paddy, Kharif 2024	Seed treatment	Seed treatment with *Trichoderma viridi* @8 g per kg of seeds	120	50	67.9	59.1	14.9	No. of panicles/m^2	394	365	58500	129010	71740	2.21	63000	112290	49290	1.78
Brinjal Kharif, 2024	IPM	Use of pheromone trap against *Leucinodes orbonalis* of brinjal as mechanical control	37	4	629.9	512.7	22.9	% of plant infested	2.7	47	108500	629900	521400	5.81	123500	512700	389200	4.15
Mango Summer, 2024	IPM	Use of Pheromone with funnel trap to control Mango fruit fly	30	4	151	119	26.9	% of infestation	4.9	47.1	128000	604000	476000	4.72	138000	476000	338000	3.45
Green Fodder Maize, 2024	Varietal replacement	J-1006	30	3.15	396.58	285.5	38.90	CP%	8.82	7.95	16523	25164	8641	1.52	15892	18942	3050	1.19
Green Fodder Oat, 2024	New Introduction	Kent	10	1.21	310.8	No Local Variety	-	CP (%)	9.12	-	22324	32750	10426	1.47				
	Total																	

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 (2024)	New Introduction	Introduction of Kaveri Poultry Breed	30	30 (10 nos. of birds per unit)	Body weight at 6th wk of age –M/F-770/590gm	The programme is going on											
Poultry (2024)	New	Introduction	30	30(10 nos.	Body weight			Age of first		2020	6852	4832	3.39				
Rabbitry																	
Piggery																	
Sheep and goat	Health Management	Doramectin @200 mg/Kg body weight at 3 months interval	10 Unit	10 unit (2 nos. of kid per unit)	EPG-256.23 Body weight 9.658±0.32	EPG-605.76	Body weight 9.658±0.32	Body weight 7.043±0.18		1220	7275	6055	5.96	1020	5280	2025	5.14
Duckery (2024)	Breed Replacement	Breed replacement by Indian	30	30 (10 nos. of birds per	Body weight at 12th wk of age –M/F-	The programme is going on											
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																
Button mushroom																
Vermicompost																
Sericulture																
Apiculture																
Others (pl. specify) Participatory preparation of Extension Literatures in Vernacular Languages	**Participatory preparation of Extension Literatures on seed production of Oilseeds and Pulses in Vernacular Languages**	**100**	**10**	**% Change in Total Production**		**Training on Participatory preparation of Extension Literatures on seed production of Oilseeds and Pulses in Vernacular Languages**		**Other Parameters**								
								% Change in Productivity		**% Change in Gross Cost**		**% Change in Gross Return**		**% Change in Net Return**		**% Change in B: C Ratio**
				Demo	**Check**			**Demo**	**Check**	**Demo**	**Check**	**Demo**	**Check**	**Demo**	**Check**	**Demo**	**Check**
				16 (+)	05 (+)	02	00	18 (+)	03 (+)	19 (+)	45 (+)	20 (+)	10 (+)	27 (+)	08 (+)	20 (+)	09 (+)
Total		**100**	**10**													

*** 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	Nutrition Garden (2024)	141	2400.00	1100.00	All the vegetables were grown by compost materials available in their home stead. Therefore, keeping quality was good. Income is increased by 118 %.
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					
Drum Seeder	Kharif, 2024 Paddy Var Rani Dhan	Direct Seeding of Rice in Lines	18	8	-	-	-	60	Manual Transplanting	19440	-

*** 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 (Rabi-Summer)										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total										
Pulses										
Green gram										
Black gram										
Bengal gram										
Red gram										
Others (Pl. specify)										
Total										
Vegetable crops										
Bottle gourd										
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra										
Onion										
Potato										
Field bean										
Others (Pl. specify)										
Total										
Commercial crops										
Cotton										
Coconut										

Others (Pl. specify)										
Total										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)	J1006	30	3.15	396.58	285.5 (Local Improved)	38.90	16523	25164	8641	1.52
Sorghum (Fodder)										
Others (Pl. specify)										
Total		**30**	**3.15**							

Technical Feedback on the demonstrated technologies

Sl. No.	Crop	Feed Back
01.	Rice var. Rani Dhan (IET - 19418)	The Rice var. Rani Dhan (IET - 19418) with an average yield of 68 q / ha may be cultivated instead of MTU - 7029. The percentage yield of the Rice var. Rani Dhan (IET - 19418) increased over 19 percent over the local check MTU - 7029.
02.	Green Manuring with *Azolla* in rice field	After multiplication of *Azolla* and incorporation in Paddy field before transplanting, application of Nitrogenous fertilizers was reduced up to 20.3 per cent for the next Paddy cultivation in the same field.
03.	Crop Diversification through introduction of Ekangi	Ekangi (*K. galanga*) was introduced in mono cropped up and medium land situation replacing Kharif Paddy as crop diversification gave an increased yield of 135 q. / ha which fetched a higher B: C ratio of 6.24
04.	Drumstick Var. PKM – 1	The *Baramasia* Drumstick Var. – PKM -1 increase the economic benefits by double than traditional drumstick with higher B:C ratio of 5.99
05.	Varietal Replacement of Elephant Foot Yam with Var. Bidhan Kusum	The Elephant Foot Yam was cultivated in up-land mono cropped area in rainfed condition as crop diversification satisfactorily with an average yield of 688 q. / ha with 183 per cent increase in yield over local check along with B: C Ratio of 5.46 over 2.82 in Local Check.
06.	Seed treatment with *Trichoderma viridi* @8 g per kg of seeds	Seed treatment with *Trichoderma viridi* in kharif paddy only can increase the yield by 14.9%
07.	Use of Pheromone trap against *spodoptera litura* of brinjal as mechanical control	Use of Pheromone trap in Brinjal increased the yield by 22.9 % with only 2 % infestation in comparison to 47 % in check demonstration and also reduces the cost of cultivation
08.	Use of Pheromone with funnel trap to control Mango fruit fly	Use of Pheromone with funnel trap increased the mango yield by 26.9 % and reduces the cost of cultivation by 8 %
09.	Nutrition Garden	It increases the availability of nutritious vegetables to farm family and got 118% more income.
10.	Use of Doramectin in Small Ruminant	The strategic use of Doramectin could enhance the productivity of small ruminant.
11.	New Breed Introduction (Kaveri, Poultry Breed)	The Kaveri Chicken Breed are capable of producing 160 to 165 Eggs with rapid body weight growth in backyard.

Extension and Training activities under FLD

Sl. No.	Activity	Date	No. of activities organized	Number of participants	Remarks
01.	Field Days	24.08.2024, 01.09.2024, 29.09.2024, 23.11.2024, 10.12.2024, 14.12.2024, 19.12.2024	07	146	
02.	Farmers Training	27.08.2024, 30.09.2024, 24.11.2024, 18.12.2024, 26.12.2024, 29.12.2024	6	223	
03.	Media Coverage	Ananda Bazar Patrika and you tube channel	2		
04.	Training for extension functionaries	30.09.2024 to 04.10.2024, 07.09.2024, 10.09.2024, 19.12.2024 to 20.12.2024, 20.12.2024	5	167	

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Summer 2023-24 and Kharif 2024:

Cluster Front Line Demonstration on Pulses and Oilseeds Summer 2023-24

Summer Oilseeds:

Performance of the Demonstration

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.	Summer- Sesame	Tilottoma	7.9	143	125	710	Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA @1gm/lt water in 25 and 45 DAS	91	30	13.1	10.4	12	269	209	94

Seeds of Improved Variety Savitri @ 6 Kg. /ha, Method of seed sowing: - Broadcasting, Application of herbicides. Pendimethalin @ 3 lit. / ha at 1- 3 DAS, Foliar Spray of Micro- Nutrients: - ZN EDTA @ 1 gm. / lit. of water at 25 and 45 DAS.

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmers' Existing plot				Demonstration plot				Farmers' feedback
		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	Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA @1gm/lt water in 25 and 45 DAS	16800	43450	26650	2.58	17500	66000	48500	3.77	Additional net return is Rs.13200/ha

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained	Produce sold (Kg. /household)	Selling Rate (Rs. /Kg.)	Produce used for own sowing (Kg.)	Produce distributed to other farmers	Purpose for which income gained was utilized	Employment Generated (Man days / household)
1.	Sesame Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA @1gm/lt water in 25 and 45 DAS	3600 kg	200.00	55.00	Rest is kept for extracting Oil and sowing seeds in the next season.	_	Payment for Labor bill, payment for irrigation, fertilizer and pesticide expenditures.	11

D. Pulse Farmer's 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
1.	Sesame Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA @1gm/lt water in 25 and 45 DAS	Suitable to a large extent	Farmers prefer the new improved variety of sesame i.e. Savitri as the existing variety of local check Tilottoma gives a yield and takes more time than new variety Savitri.	New improved variety seeds are affordable. However other components of package of practices like herbicides, plant protection chemicals, micro-nutrients, chemical fertilizers, irrigations etc. are not at all affordable except a very few from the beneficiaries when the programme support would be withdrawn.	None	No, the improved variety and the technological supportive package of practices are acceptable to the partner farmers of the Cluster FLD; but other farmers are still apprehensive about the availability of seeds of the improved varieties and the market acceptance of these new improved varieties. The farmers are greatly concerned about the rising prices of inputs like herbicides, micro-nutrients etc. But a good demand of the crop in the market is found.	Availability of seeds should be ensured in time. Low-cost quality herbicides and micro-nutrients should be encouraged for dissemination among the farming community. Proper irrigation facilities should be created by the Governmental agencies.

E) Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of New Technology vis-a vis Local Check	Farmers Feedback
1. Duration	Satisfactory	New Technology: 90 days, Local check: 110 days	52% increase in yield was obtained through the new technology than local check. The new variety fetched more benefit in shorter duration i.e. additional net return Rs.13200/ha than local check which is very much encouraging for sesame cultivation in summer season instead of Boro rice.
2. No. of silique/plant	High	New Technology: 46 days Local Check: 35 days	
3. Colour of the seed	Attractive	New Technology: Whitish brown Local Check: Brown	

F) Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
1.	Post-harvest management and storing of summer sesame seeds	01.06.2024	15
2	Post-harvest management and storing of summer sesame seeds	02.06.2024	22
3	Harvesting stage	30.05.2024	11
4	Branching flowering.	19.04.2024	17
5	Micronutrient Spray	29.04.2024	13
6	Weed Management & Water Management	21.03.2024	9
7	Land preparation & Sowing of improved seeds.	05.03.2024	20

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

Maturity stage of Sesame under CFLD Summer Oilseed

Harvesting stage of Sesame under CFLD Summer Oilseed

H. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Summer, Sesame: 2023-24 (Sesame)	i) Critical input	1,50,000.00	1,40,750.00	9,250.00
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field Day, training etc.)			
	iv)Publication of literature etc.			
Total		**1,50,000.00**	**1,40,750.00**	**9,250.00**

Cluster Front Line Demonstration on Pulses and Oilseeds Kharif 2024

Kharif Oilseeds:

Performance of the Demonstration

A. Technical Parameters:

Sl. No.	Crop demonstrated	Existing (Farmer's) variety name	Existing yield (q/ha)	Yield gap (Kg/ha)			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
01.	Kharif- Sesame	Tilottoma	7.7	9.33	9.15	15.00	Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA @1gm/lt water in 25 and 45 DAS	365	60	13.1	9.9	11.1	137	150	248

Seeds of Improved Variety Suprava @ 6 Kg. / ha, Method of seed sowing: - Broadcasting, Application of herbicides. Pendimethalin @ 3 lit. / ha at 1- 3 DAS, Foliar Spray of Micro- Nutrients: - ZN EDTA @ 1 gm. / lit. of water at 25 and 45 DAS.

B. Economic Parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmers' Existing plot				Demonstration plot				Farmers' feedback
		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	
01.	Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA @1gm/lt water in 25 and 45 DAS	16400	42350	25950	2.58	17100	61050	43950	3.57	44% increase in yield was obtained through the new technology than local check. The new variety fetched more benefit in shorter duration i.e. additional net return Rs.17550/- ha. than local check which is very much encouraging for sesame cultivation in summer season instead of rice.

C. Socio-economic impact parameters

Sl. No.	Crop and variety Demonstrated	Total Produce Obtained	Produce sold. (Kg. /household)	Selling Rate (Rs. /Kg.)	Produce used for own sowing (Kg.)	Produce distributed to other farmers	Purpose for which income gained was utilized	Employment Generated (Man days / household)
01.	Sesame, Var- Suprava (CUMS-17) + Herbicide, Micronutrient Spray	66600	125.00	55.00	Rest is kept for extracting Oil and sowing seeds in the next season.	_	Payment for Labor bill, payment for irrigation, fertilizer and pesticide expenditures.	24

D. Oilseed Farmer's 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
01.	Var: Suprava (CUMS-17) + Herbicides pendimethalin as pre-emergences @ 3lt/ha+ Micronutrient spray Zinc EDTA@1gm/lit water in 25 and 45 DAS	Suitable to a large extent	Farmers prefer the new improved variety of sesame i.e. Savitri as the existing variety of local check Tilottoma gives a yield and takes more time than new variety Suprava	New improved variety seeds are affordable. However other components of package of practices like herbicides, plant protection chemicals, micro-nutrients, chemical fertilizers, irrigations etc. are not at all affordable except a very few from the beneficiaries when the Programme support would be withdrawn.	None	No, the improved variety and the technological supportive package of practices are acceptable to the partner farmers of the FLD; but other farmers are still apprehensive about the availability of seeds of the improved varieties and the market acceptance of these new improved varieties. The farmers are greatly concerned about the rising prices of inputs like herbicides, micro-nutrients etc. But a good demand of the crop in the market is found.	Availability of seeds should be ensured in time. Low-cost quality herbicides and micro-nutrients should be encouraged for dissemination among the farming community. Proper irrigation facilities should be created by the Governmental agencies.

E. Specific Characteristics of Technology and Performance

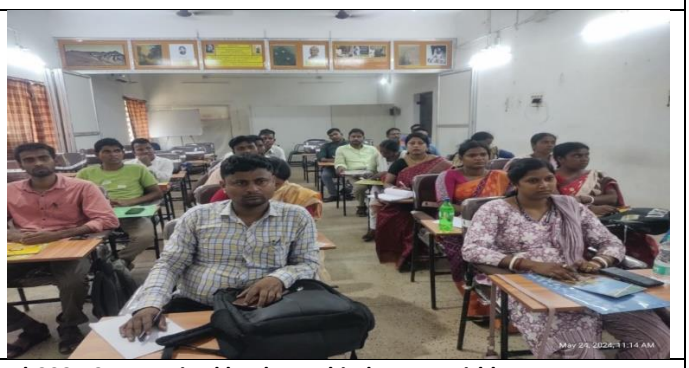
Specific Characteristic	Performance	Performance of New Technology vis-a vis Local Check	Farmers Feedback
4. Duration	Satisfactory	New Technology: 85 days, Local check: 95 days	44% increase in yield was obtained through the new technology than local check. The new variety fetched more benefit in shorter duration i.e. additional net return Rs.17550/-ha than local check which is very much encouraging for sesame cultivation in summer season instead of rice.in summer season instead of rice.
5. No. of silique/plant	High	New Technology: 38 days Local Check: 26 days	
6. Colours of the seed	Attractive	New Technology: White Local Check: Brown	

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmers attended
01.	Field days on Land preparation & Sowing of improved seeds.	22.08.2024	26
02.	Field days on Weed Management & Water Management	04.09.2024	15
03.	Field days on Branching flowering.	30.09.2024	11
04.	Field days on Micronutrient Spray	05.10.2024	15
05.	Field days on Harvesting stage	29.10.2024	17
06.	Field days on Harvesting stage	19.11.2024	12

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

Training Programme on the Cluster FLD Programme on Kharif Oilseed

Sesame at the Vegetative stage on Cluster FLD Kharif Oilseed-2024-25 organized by the Rathindra KVK, Birbhum


Sesame at the Flowering stage on Cluster FLD Kharif Oilseed-2024-25 organized by the Rathindra KVK, Birbhum


Sesame at the Maturity stage on Cluster FLD Kharif Oilseed-2024-25 organized by the Rathindra KVK, Birbhum

H. Details of budget utilization

Crop (Provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
Kharif, Oilseed: 2024-25 (Sesame)	i) Critical input	9,09,000.00	1,51,260.00	7,57,740.00
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field Day, training etc.)			
	iv)Publication of literature etc.			
Total		**9,09,000.00**	**1,51,260.00**	**7,57,740.00**

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

A) Farmers and farm women (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
I. Crop Production													
Weed Management				0			0			0	0	0	0
Resource Conservation Technologies				0			0			0	0	0	0
Cropping Systems				0			0			0	0	0	0
Crop Diversification	2	7	4	11	2	8	10	1	0	1	10	12	22
Integrated Farming	1	17	25	42	10	4	14	1	0	1	28	29	57
Micro irrigation/irrigation				0			0			0	0	0	0
Seed production				0			0			0	0	0	0
Nursery management				0			0			0	0	0	0
Integrated Crop Management	2	13	5	18	5	3	8	19	8	27	37	16	53
Soil & water conservation				0			0			0	0	0	0
Integrated nutrient Management	2	33	3	36	16	4	20	0	0	0	49	7	56
Production of organic inputs	1	14	6	20	1	0	1	5	0	5	20	6	26
Others (Production Technology on Millets)	1	2	2	4	22	20	42	2	2	4	26	24	50
Others (Natural Farming)	3	20	6	26	31	23	54	19	15	34	70	44	114
Total	**12**	**106**	**51**	**157**	**87**	**62**	**149**	**47**	**25**	**72**	**240**	**138**	**378**
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops				0			0			0	0	0	0
Off season vegetables				0			0			0	0	0	0
Nursery raising	1	0	0	0	1	45	46	0	0	0	1	45	46
Exotic vegetables				0			0			0	0	0	0
Export potential vegetables				0			0			0	0	0	0
Grading and standardization				0			0			0	0	0	0
Protective cultivation				0			0			0	0	0	0
Others (Production Technology)				0			0			0	0	0	0
Total (a)				**0**			**46**			**0**	**1**	**45**	**46**
b) Fruits													
Training and Pruning				0			0			0	0	0	0
Layout and Management of Orchards				0			0			0	0	0	0
Cultivation of Fruit				0			0			0	0	0	0
Management of young plants/orchards				0			0			0	0	0	0
Rejuvenation of old orchards				0			0			0	0	0	0
Export potential fruits				0			0			0	0	0	0
Micro irrigation systems of orchards				0			0			0	0	0	0
Plant propagation techniques				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

c) Ornamental Plants													
Nursery Management				0			0			0	0	0	0
Management of potted plants				0			0			0	0	0	0
Export potential of ornamental plants				0			0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops													
Production and Management technology				0			0			0	0	0	0
Processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops													
Production and Management technology				0			0			0	0	0	0
Processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices													
Production and Management technology				0			0			0	0	0	0
Processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants													
Nursery management				0			0			0	0	0	0
Production and management technology				0			0			0	0	0	0
Post harvest technology and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a-g)	**0**	**0**	**0**	**0**	**0**	**0**	**46**	**0**	**0**	**0**	**1**	**45**	**46**
III. Soil Health and Fertility Management													
Soil fertility management				0			0			0	0	0	0
Integrated water management				0			0			0	0	0	0
Integrated Nutrient Management				0			0			0	0	0	0
Production and use of organic inputs	1	9	2	11	5	2	7	2	0	2	16	4	20
Management of Problematic soils	1	3	2	5	30	15	45	0	0	0	33	17	50
Micronutrient deficiency in crops				0			0			0	0	0	0
Nutrient Use Efficiency				0			0			0	0	0	0
Balance Use of fertilizer				0			0			0	0	0	0
Soil & water testing				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**2**	**12**	**4**	**16**	**35**	**17**	**52**	**2**	**0**	**2**	**49**	**21**	**70**
IV. Livestock Production and Management													
Dairy Management				0			0			0	0	0	0

Poultry Management	2	8	1	9	3	0	3	3	15	18	14	16	30
Piggery Management				0			0			0	0	0	0
Rabbit Management				0			0			0	0	0	0
Animal Nutrition Management				0			0			0	0	0	0
Disease Management	5	16	165	181	4	9	13	4	7	11	24	181	205
Feed & fodder technologies	2	10	7	17	24	6	30	0	20	20	34	33	67
Production of quality animal products				0			0			0	0	0	0
Others (Goat Farming)	2	12	3	15	5	7	12	0	5	5	17	15	32
Others (Ornamental Bird Rearing)	1	4	3	7	2	12	14	0	10	10	6	25	31
Others (Duck Rearing)				0			0			0	0	0	0
Total	**12**	**50**	**179**	**229**	**38**	**34**	**72**	**7**	**57**	**64**	**95**	**270**	**365**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening				0			0			0	0	0	0
Design and development of low/minimum cost diet				0			0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0			0	0	0	0
Minimization of nutrient loss in processing				0			0			0	0	0	0
Processing & cooking				0			0			0	0	0	0
Gender mainstreaming through SHGs				0			0			0	0	0	0
Storage loss minimization techniques				0			0			0	0	0	0
Value addition	1	0	3	3	0	19	19	0	0	0	0	22	22
Women empowerment				0			0			0	0	0	0
Location specific drudgery reduction technologies				0			0			0	0	0	0
Rural Crafts				0			0			0	0	0	0
Women and childcare				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**1**	**0**	**3**	**3**	**0**	**19**	**19**	**0**	**0**	**0**	**0**	**22**	**22**
VI. Agril. Engineering													
Farm machinery & its maintenance				0			0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0			0	0	0	0
Use of Plastics in farming practices				0			0			0	0	0	0
Production of small tools and implements				0			0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0			0	0	0	0
Small scale processing and value addition				0			0			0	0	0	0
Post Harvest Technology				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII. Plant Protection													
Integrated Pest Management				0			0			0	0	0	0
Integrated Disease Management				0			0			0	0	0	0
Bio control of pests and diseases				0			0			0	0	0	0
Production of bio control agents and bio pesticides				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

VIII. Fisheries													
Integrated fish farming				0			0			0	0	0	0
Carp breeding and hatchery management				0			0			0	0	0	0
Carp fry and fingerling rearing				0			0			0	0	0	0
Composite fish culture	1	0	0	0	70	30	100	0	0	0	70	30	100
Hatchery management and culture of freshwater prawn				0			0			0	0	0	0
Breeding and culture of ornamental fishes				0			0			0	0	0	0
Portable plastic carp hatchery				0			0			0	0	0	0
Pen culture of fish and prawn				0			0			0	0	0	0
Shrimp farming				0			0			0	0	0	0
Edible oyster farming				0			0			0	0	0	0
Pearl culture				0			0			0	0	0	0
Fish processing and value addition				0			0			0	0	0	0
Others (Community Empowerment and Capacity Development of Fish Farmers)	1	0	0	0	25	5	30	19	11	30	44	16	60
Total	**2**	**0**	**0**	**0**	**95**	**35**	**130**	**19**	**11**	**30**	**114**	**46**	**160**
IX. Production of Input at site													
Seed Production	3	3	5	8	15	2	17	27	29	56	45	36	81
Planting material production				0			0			0	0	0	0
Bio agent production				0			0			0	0	0	0
Bio pesticides production				0			0			0	0	0	0
Bio fertilizer production	1	6	2	8	23	16	39	10	3	13	39	21	60
Vermi compost production	1	2	0	2	10	27	37	0	0	0	12	27	39
Organic manures production				0			0			0	0	0	0
Production of fry and fingerlings				0			0			0	0	0	0
Production of Bee colonies and wax sheets				0			0			0	0	0	0
Small tools and implements				0			0			0	0	0	0
Production of livestock feed and fodder				0			0			0	0	0	0
Production of Fish feed				0			0			0	0	0	0
Mushroom production				0			0			0	0	0	0
Apiculture	1	11	4	15	23	4	27	5	3	8	39	11	50
Others				0			0			0	0	0	0
Total	**6**	**22**	**11**	**33**	**71**	**49**	**120**	**42**	**35**	**77**	**135**	**95**	**230**
X. Capacity Building and Group Dynamics													
Leadership development				0			0			0	0	0	0
Group dynamics				0			0			0	0	0	0
Formation and Management of SHGs				0			0			0	0	0	0
Mobilization of social capital				0			0			0	0	0	0
Entrepreneurial development of farmers/youths	1	9	3	12	4	11	15	2	2	4	15	16	31
WTO and IPR issues				0			0			0	0	0	0
Others (Market Linkage)				0			0			0	0	0	0
Others (Mobilization of Institutional Support)				0			0			0	0	0	0
Others (Crop Insurance)				0			0			0	0	0	0

Others (FPO & FPC)	1	3	3	6	5	59	64	0	3	3	8	65	73
Others (Utilization of Govt. Scheme)				0			0			0	0	0	0
Total	**2**	**12**	**6**	**18**	**9**	**70**	**79**	**2**	**5**	**7**	**23**	**81**	**104**
XI. Agro forestry													
Production technologies				0			0			0	0	0	0
Nursery management				0			0			0	0	0	0
Integrated Farming Systems				0			0			0	0	0	0
Others (Plantation Model)	1	22	10	32	2	4	6	9	9	18	33	23	56
Total	**1**	**22**	**10**	**32**	**2**	**4**	**6**	**9**	**9**	**18**	**33**	**23**	**56**
XII. Others (Pl. Specify) (Workshop cum Training on Baseline Survey under CFLD)	1	9	6	15	3	2	5	1	1	2	13	9	22
GRAND TOTAL	**39**	**233**	**270**	**503**	**340**	**292**	**678**	**129**	**143**	**272**	**703**	**750**	**1453**

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
Nursery Management of Horticulture crops				0			0			0	0	0	0
Training and pruning of orchards				0			0			0	0	0	0
Protected cultivation of vegetable crops				0			0			0	0	0	0
Commercial fruit production				0			0			0	0	0	0
Integrated farming				0			0			0	0	0	0
Seed production				0			0			0	0	0	0
Production of organic inputs				0			0			0	0	0	0
Planting material production				0			0			0	0	0	0
Vermiculture				0			0			0	0	0	0
Mushroom Production				0			0			0	0	0	0
Beekeeping (STRY)	1	5	3	8	6	0	6	1	0	1	12	3	15
Sericulture				0			0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0			0	0	0	0
Value addition				0			0			0	0	0	0
Small scale processing				0			0			0	0	0	0
Post Harvest Technology				0			0			0	0	0	0
Tailoring and Stitching				0			0			0	0	0	0
Rural Crafts				0			0			0	0	0	0
Production of quality animal products				0			0			0	0	0	0
Dairying				0			0			0	0	0	0
Sheep and goat rearing	1	0	3	3	0	7	7	0	5	5	0	15	15
Quail farming				0			0			0	0	0	0
Piggery				0			0			0	0	0	0
Rabbit farming				0			0			0	0	0	0
Poultry production	1	0	0	0	3	24	27	0	0	0	3	24	27
Ornamental fisheries				0			0			0	0	0	0
Composite fish culture				0			0			0	0	0	0
Freshwater prawn culture				0			0			0	0	0	0
Shrimp farming				0			0			0	0	0	0
Pearl culture				0			0			0	0	0	0
Cold water fisheries				0			0			0	0	0	0
Fish harvest and processing technology				0			0			0	0	0	0
Fry and fingerling rearing				0			0			0	0	0	0
Others (Orientation Training on Crops and Demonstration Unit)	1	23	7	30	4	2	6	0	0	0	27	9	36
Total	**4**	**28**	**13**	**41**	**13**	**33**	**46**	**1**	**5**	**6**	**42**	**51**	**93**

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				0			0			0	0	0	0
Integrated Pest Management				0			0			0	0	0	0
Integrated Nutrient management				0			0			0	0	0	0
Rejuvenation of old orchards				0			0			0	0	0	0
Protected cultivation technology				0			0			0	0	0	0
Production and use of organic inputs				0			0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0			0	0	0	0
Gender mainstreaming through SHGs				0			0			0	0	0	0
Formation and Management of SHGs				0			0			0	0	0	0
Women and Childcare				0			0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0			0	0	0	0
Group Dynamics and farmers organization				0			0			0	0	0	0
Information networking among farmers				0			0			0	0	0	0
Capacity building for ICT application				0			0			0	0	0	0
Management in farm animals				0			0			0	0	0	0
Livestock feed and fodder production				0			0			0	0	0	0
Household food security				0			0			0	0	0	0
Other (Integrated Farming System)	1	10	4	14	6	1	7	9	1	10	25	6	31
Other (Capacity Building on Quality Assurance of Different Testing Laboratories)	1	21	1	22	7	1	8	3	0	3	31	2	33
Other (Training on Para Extension Worker)	1	0	2	2	0	38	38	0	5	5	0	45	45
Other (Natural Farming)			0	0	0	0	0			0	0	0	0
Total	**3**	**31**	**7**	**38**	**13**	**40**	**53**	**12**	**6**	**18**	**56**	**53**	**109**

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				0			0			0	0	0	0
Resource Conservation Technologies	1	0	0	0	0	0	0	11	13	24	11	13	24
Cropping Systems				0			0			0	0	0	0
Crop Diversification	4	28	8	36	45	6	51	18	14	32	91	28	119
Integrated Farming				0			0			0	0	0	0
Micro irrigation/irrigation				0			0			0	0	0	0
Seed production				0			0			0	0	0	0
Nursery management				0			0			0	0	0	0
Integrated Crop Management	1	0	4	4	0	41	41	0	13	13	0	58	58
Soil & water conservation				0			0			0	0	0	0
Integrated nutrient Management				0			0			0	0	0	0
Production of organic inputs				0			0			0	0	0	0
Others (Production Technology on Millets)				0			0			0	0	0	0
Others (Natural Farming)	2	28	29	57	33	31	64	12	18	30	73	78	151
Total	**8**	**56**	**41**	**97**	**78**	**78**	**156**	**41**	**58**	**99**	**175**	**177**	**352**
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops				0			0			0	0	0	0
Off season vegetables				0			0			0	0	0	0
Nursery raising				0			0			0	0	0	0
Exotic vegetables				0			0			0	0	0	0
Export potential vegetables				0			0			0	0	0	0
Grading and standardization	1	2	0	2	0	1	1	4	3	7	6	4	10
Protective cultivation				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (a)	**1**	**2**	**0**	**2**	**0**	**1**	**1**	**4**	**3**	**7**	**6**	**4**	**10**
b) Fruits													
Training and Pruning				0			0			0	0	0	0
Layout and Management of Orchards				0			0			0	0	0	0
Cultivation of Fruit				0			0			0	0	0	0
Management of young plants/orchards				0			0			0	0	0	0
Rejuvenation of old orchards				0			0			0	0	0	0
Export potential fruits				0			0			0	0	0	0
Micro irrigation systems of orchards				0			0			0	0	0	0
Plant propagation techniques				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

c) Ornamental Plants													
Nursery Management				0			0			0	0	0	0
Management of potted plants				0			0			0	0	0	0
Export potential of ornamental plants				0			0			0	0	0	0
Propagation techniques of Ornamental Plants				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops													
Production and Management technology				0			0			0	0	0	0
Processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops													
Production and Management technology				0			0			0	0	0	0
Processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices													
Production and Management technology				0			0			0	0	0	0
Processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants													
Nursery management				0			0			0	0	0	0
Production and management technology				0	0	0	0			0	0	0	0
Post harvest technology and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a-g)	**1**	**2**	**0**	**2**	**0**	**1**	**1**	**4**	**3**	**7**	**6**	**4**	**10**
III. Soil Health and Fertility Management													
Soil fertility management				0			0			0	0	0	0
Integrated water management				0			0			0	0	0	0
Integrated Nutrient Management				0			0			0	0	0	0
Production and use of organic inputs				0			0			0	0	0	0
Management of Problematic soils				0			0			0	0	0	0
Micro nutrient deficiency in crops			0	0		0	0			0	0	0	0
Nutrient Use Efficiency				0			0			0	0	0	0
Balance Use of fertilizer				0			0			0	0	0	0
Soil & water testing				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IV. Livestock Production and Management													
Dairy Management	1	0	1	1	7	8	15	2	12	14	9	21	30

Poultry Management				0			0			0	0	0	0
Piggery Management	2	5	0	5	1	0	1	20	30	50	26	30	56
Rabbit Management				0			0			0	0	0	0
Animal Nutrition Management	1	56	0	56	4	0	4	0	0	0	60	0	60
Disease Management				0			0			0	0	0	0
Feed & fodder technologies				0			0			0	0	0	0
Production of quality animal products	1	0	4	4	0	35	35	0	3	3	0	42	42
Others (Goat Farming)	3	9	54	63	0	55	55	2	2	4	11	111	122
Others (Ornamental Bird Rearing)				0			0			0	0	0	0
Others (Duck Rearing)	2	1	74	75	0	25	25	0	0	0	1	99	100
Total	**10**	**71**	**133**	**204**	**12**	**123**	**135**	**24**	**47**	**71**	**107**	**303**	**410**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening				0			0			0	0	0	0
Design and development of low/minimum cost diet				0			0			0	0	0	0
Designing and development for high nutrient efficiency diet				0			0			0	0	0	0
Minimization of nutrient loss in processing				0			0			0	0	0	0
Processing & cooking				0			0			0	0	0	0
Gender mainstreaming through SHGs				0			0			0	0	0	0
Storage loss minimization techniques				0			0			0	0	0	0
Value addition				0			0			0	0	0	0
Women empowerment				0			0			0	0	0	0
Location specific drudgery reduction technologies				0			0			0	0	0	0
Rural Crafts				0			0			0	0	0	0
Women and childcare				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VI. Agril. Engineering													
Farm machinery & its maintenance				0			0			0	0	0	0
Installation and maintenance of micro irrigation systems				0			0			0	0	0	0
Use of Plastics in farming practices				0			0			0	0	0	0
Production of small tools and implements				0			0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0			0	0	0	0
Small scale processing and value addition				0			0			0	0	0	0
Post Harvest Technology				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
VII. Plant Protection													
Integrated Pest Management	1	24	0	24	17	0	17	9	0	9	50	0	50
Integrated Disease Management				0			0			0	0	0	0
Bio control of pests and diseases				0			0			0	0	0	0
Production of bio control agents and bio pesticides				0			0			0	0	0	0
Others (Preparation of Bordo Mixture)	1	21	6	27	7	3	10	2	1	3	30	10	40
Total	**2**	**45**	**6**	**51**	**24**	**3**	**27**	**11**	**1**	**12**	**80**	**10**	**90**

VIII. Fisheries													
Integrated fish farming				0			0			0	0	0	0
Carp breeding and hatchery management				0			0			0	0	0	0
Carp fry and fingerling rearing				0			0			0	0	0	0
Composite fish culture				0			0			0	0	0	0
Hatchery management and culture of freshwater prawn				0			0			0	0	0	0
Breeding and culture of ornamental fishes				0			0			0	0	0	0
Portable plastic carp hatchery				0			0			0	0	0	0
Pen culture of fish and prawn				0			0			0	0	0	0
Shrimp farming				0			0			0	0	0	0
Edible oyster farming				0			0			0	0	0	0
Pearl culture				0			0			0	0	0	0
Fish processing and value addition				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
IX. Production of Input at site													
Seed Production	1	0	0	0	0	0	0	4	1	5	4	1	5
Planting material production				0			0			0	0	0	0
Bio agent production				0			0			0	0	0	0
Bio pesticides production				0			0			0	0	0	0
Bio fertilizer production				0			0			0	0	0	0
Vermi compost production	1	0	12	12	0	39	39	0	0	0	0	51	51
Organic manures production				0			0			0	0	0	0
Production of fry and fingerlings				0			0			0	0	0	0
Production of Bee colonies and wax sheets				0			0			0	0	0	0
Small tools and implements				0			0			0	0	0	0
Production of livestock feed and fodder				0			0			0	0	0	0
Production of Fish feed				0			0			0	0	0	0
Mushroom production				0			0			0	0	0	0
Apiculture				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**2**	**0**	**12**	**12**	**0**	**39**	**39**	**4**	**1**	**5**	**4**	**52**	**56**
X. Capacity Building and Group Dynamics													
Leadership development				0			0			0	0	0	0
Group dynamics	4	55	12	67	8	129	137	0	10	10	63	151	214
Formation and Management of SHGs				0			0			0	0	0	0
Mobilization of social capital				0			0			0	0	0	0
Entrepreneurial development of farmers/youths				0			0			0	0	0	0
WTO and IPR issues				0			0			0	0	0	0
Others (Market Linkage)	1	0	0	0	0	70	70	0	0	0	0	70	70
Others (Mobilization of Institutional Support)				0			0			0	0	0	0
Others (Crop Insurance)	1	2	8	10	10	55	65	0	5	5	12	68	80
Others (FPO & FPC)				0			0			0	0	0	0

Others (Utilization of Govt. Scheme)	2	50	3	53	32	1	33	0	0	0	82	4	86
Total	**8**	**107**	**23**	**130**	**50**	**255**	**305**	**0**	**15**	**15**	**157**	**293**	**450**
XI. Agro forestry													
Production technologies				0			0			0	0	0	0
Nursery management				0			0			0	0	0	0
Integrated Farming Systems				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
XII. Others (Pl. Specify) (Climate Resilience in Agriculture)	1	0	0	0	1	6	7	19	49	68	20	55	75
GRAND TOTAL	**32**	**281**	**215**	**496**	**165**	**505**	**670**	**103**	**174**	**277**	**549**	**894**	**1443**

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
Nursery Management of Horticulture crops				0			0			0	0	0	0
Training and pruning of orchards				0			0			0	0	0	0
Protected cultivation of vegetable crops				0			0			0	0	0	0
Commercial fruit production				0			0			0	0	0	0
Integrated farming				0			0			0	0	0	0
Seed production				0			0			0	0	0	0
Production of organic inputs				0			0			0	0	0	0
Planting material production				0			0			0	0	0	0
Vermiculture				0			0			0	0	0	0
Mushroom Production				0			0			0	0	0	0
Beekeeping				0			0			0	0	0	0
Sericulture				0			0			0	0	0	0
Repair and maintenance of farm machinery and implements				0			0			0	0	0	0
Value addition				0			0			0	0	0	0
Small scale processing				0			0			0	0	0	0
Post Harvest Technology				0			0			0	0	0	0
Tailoring and Stitching				0			0			0	0	0	0
Rural Crafts				0			0			0	0	0	0
Production of quality animal products				0			0			0	0	0	0
Dairying				0			0			0	0	0	0
Sheep and goat rearing				0			0			0	0	0	0
Quail farming				0			0			0	0	0	0
Piggery				0			0			0	0	0	0
Rabbit farming				0			0			0	0	0	0
Poultry production				0			0			0	0	0	0
Ornamental fisheries				0			0			0	0	0	0
Composite fish culture				0			0			0	0	0	0
Freshwater prawn culture				0			0			0	0	0	0
Shrimp farming				0			0			0	0	0	0
Pearl culture				0			0			0	0	0	0
Cold water fisheries				0			0			0	0	0	0
Fish harvest and processing technology				0			0			0	0	0	0
Fry and fingerling rearing				0			0			0	0	0	0
Others				0			0			0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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				0			0			0	0	0	0
Integrated Pest Management				0			0			0	0	0	0
Integrated Nutrient management				0			0			0	0	0	0
Rejuvenation of old orchards				0			0			0	0	0	0
Protected cultivation technology				0			0			0	0	0	0
Production and use of organic inputs				0			0			0	0	0	0
Care and maintenance of farm machinery and implements				0			0			0	0	0	0
Gender mainstreaming through SHGs				0			0			0	0	0	0
Formation and Management of SHGs				0			0			0	0	0	0
Women and Childcare				0			0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0			0	0	0	0
Group Dynamics and farmers organization				0			0			0	0	0	0
Information networking among farmers				0			0			0	0	0	0
Capacity building for ICT application				0			0			0	0	0	0
Management in farm animals				0			0			0	0	0	0
Livestock feed and fodder production				0			0			0	0	0	0
Household food security				0			0			0	0	0	0
Other (Integrated Farming System)				0			0			0	0	0	0
Other (Capacity Building on Quality Assurance of Different Testing Laboratories)				0			0			0	0	0	0
Other (Training on Para Extension Worker)				0			0			0	0	0	0
Other (Natural Farming)	1	5	0	5	0	1	1	1	1	2	6	2	8
Total	**1**	**5**	**0**	**5**	**0**	**1**	**1**	**1**	**1**	**2**	**6**	**2**	**8**

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	0	0	0	0	0	0	0	0	0	0	0	0	0
Resource Conservation Technologies	1	0	0	0	0	0	0	11	13	24	11	13	24
Cropping Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Crop Diversification	6	35	12	47	47	14	61	19	14	33	101	40	141
Integrated Farming	1	17	25	42	10	4	14	1	0	1	28	29	57
Micro irrigation/irrigation	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Crop Management	3	13	9	22	5	44	49	19	21	40	37	74	111
Soil & water conservation	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated nutrient Management	2	33	3	36	16	4	20	0	0	0	49	7	56
Production of organic inputs	1	14	6	20	1	0	1	5	0	5	20	6	26
Others (Production Technology on Millets)	1	2	2	4	22	20	42	2	2	4	26	24	50
Others (Seed Production Technology on Millets)	5	48	35	83	64	54	118	31	33	64	143	122	265
Total	**20**	**162**	**92**	**254**	**165**	**140**	**305**	**88**	**83**	**171**	**415**	**315**	**730**
II. Horticulture													
a) Vegetable Crops													
Production of low volume and high value crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Off season vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery raising	1	0	0	0	1	45	46	0	0	0	1	45	46
Exotic vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0	0	0	0	0	0
Grading and standardization	1	2	0	2	0	1	1	4	3	7	6	4	10
Protective cultivation	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (a)	**2**	**2**	**0**	**2**	**1**	**46**	**47**	**4**	**3**	**7**	**7**	**49**	**56**
b) Fruits													
Training and Pruning	0	0	0	0	0	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Cultivation of Fruit	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of young plants/orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0	0	0	0	0	0

Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (b)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
c) Ornamental Plants													
Nursery Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (c)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
d) Plantation crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (d)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
e) Tuber crops													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (e)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
f) Spices													
Production and Management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (f)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
g) Medicinal and Aromatic Plants													
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total (g)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total(a-g)	**2**	**2**	**0**	**2**	**1**	**46**	**47**	**4**	**3**	**7**	**7**	**49**	**56**
III. Soil Health and Fertility Management													
Soil fertility management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated water management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	9	2	11	5	2	7	2	0	2	16	4	20
Management of Problematic soils	1	3	2	5	30	15	45	0	0	0	33	17	50
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0	0	0	0	0	0
Balance Use of fertilizer	0	0	0	0	0	0	0	0	0	0	0	0	0
Soil & water testing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0

Total	**2**	**12**	**4**	**16**	**35**	**17**	**52**	**2**	**0**	**2**	**49**	**21**	**70**
IV. Livestock Production and Management													
Dairy Management	1	0	1	1	7	8	15	2	12	14	9	21	30
Poultry Management	2	8	1	9	3	0	3	3	15	18	14	16	30
Piggery Management	2	5	0	5	1	0	1	20	30	50	26	30	56
Rabbit Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Animal Nutrition Management	1	56	0	56	4	0	4	0	0	0	60	0	60
Disease Management	5	16	165	181	4	9	13	4	7	11	24	181	205
Feed & fodder technologies	2	10	7	17	24	6	30	0	20	20	34	33	67
Production of quality animal products	1	0	4	4	0	35	35	0	3	3	0	42	42
Others (Goat Farming)	5	21	57	78	5	62	67	2	7	9	28	126	154
Others (Ornamental Bird Rearing)	1	4	3	7	2	12	14	0	10	10	6	25	31
Others (Duck Rearing)	2	1	74	75	0	25	25	0	0	0	1	99	100
Total	**20**	**120**	**238**	**358**	**50**	**132**	**182**	**31**	**104**	**135**	**201**	**474**	**675**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Processing & cooking	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	1	0	3	3	0	19	19	0	0	0	0	22	22
Women empowerment	0	0	0	0	0	0	0	0	0	0	0	0	0
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and childcare	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**1**	**0**	**3**	**3**	**0**	**19**	**19**	**0**	**0**	**0**	**0**	**22**	**22**
VI. Agril. Engineering													
Farm machinery & its maintenance	0	0	0	0	0	0	0	0	0	0	0	0	0
Installation and maintenance of micro irrigation systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of Plastics in farming practices	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

VII. Plant Protection													
Integrated Pest Management	1	24	0	24	17	0	17	9	0	9	50	0	50
Integrated Disease Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio control of pests and diseases	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	1	21	6	27	7	3	10	2	1	3	30	10	40
Total	**2**	**45**	**6**	**51**	**24**	**3**	**27**	**11**	**1**	**12**	**80**	**10**	**90**
VIII. Fisheries													
Integrated fish farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	1	0	0	0	70	30	100	0	0	0	70	30	100
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Others (Community Empowerment and Capacity Development of Fish Farmers)	1	0	0	0	25	5	30	19	11	30	44	16	60
Total	**2**	**0**	**0**	**0**	**95**	**35**	**130**	**19**	**11**	**30**	**114**	**46**	**160**
IX. Production of Input at site													
Seed Production	4	3	5	8	15	2	17	31	30	61	49	37	86
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio agents production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio pesticides production	0	0	0	0	0	0	0	0	0	0	0	0	0
Bio fertilizer production	1	6	2	8	23	16	39	10	3	13	39	21	60
Vermi compost production	2	2	12	14	10	66	76	0	0	0	12	78	90
Organic manures production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Bee0colonies and wax sheets	0	0	0	0	0	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0	0	0	0	0	0
Mushroom production	0	0	0	0	0	0	0	0	0	0	0	0	0
Apiculture	1	11	4	15	23	4	27	5	3	8	39	11	50
Others	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**8**	**22**	**23**	**45**	**71**	**88**	**159**	**46**	**36**	**82**	**139**	**147**	**286**
X. Capacity Building and Group Dynamics													
Leadership development	0	0	0	0	0	0	0	0	0	0	0	0	0

Group dynamics	4	55	12	67	8	129	137	0	10	10	63	151	214
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	1	9	3	12	4	11	15	2	2	4	15	16	31
WTO and IPR issues	0	0	0	0	0	0	0	0	0	0	0	0	0
Others (Market Linkage)	1	0	0	0	0	70	70	0	0	0	0	70	70
Others (Mobilization of Institutional Support)	0	0	0	0	0	0	0	0	0	0	0	0	0
Others (Crop Insurance)	1	2	8	10	10	55	65	0	5	5	12	68	80
Others (FPO & FPC)	1	3	3	6	5	59	64	0	3	3	8	65	73
Others (Utilization of Govt. Scheme)	2	50	3	53	32	1	33	0	0	0	82	4	86
Total	**10**	**119**	**29**	**148**	**59**	**325**	**384**	**2**	**20**	**22**	**180**	**374**	**554**
XI. Agro forestry													
Production technologies	0	0	0	0	0	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	1	22	10	32	2	4	6	9	9	18	33	23	56
Total	**1**	**22**	**10**	**32**	**2**	**4**	**6**	**9**	**9**	**18**	**33**	**23**	**56**
XII. Others (Pl. Specify) (Climate Resilience in Agriculture)	2	9	6	15	4	8	12	20	50	70	33	64	97
GRAND TOTAL	**70**	**513**	**411**	**924**	**506**	**817**	**1323**	**232**	**317**	**549**	**1251**	**1545**	**2796**

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
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Training and pruning of orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0	0	0	0	0	0
Commercial fruit production	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0	0	0	0	0	0
Vermiculture	0	0	0	0	0	0	0	0	0	0	0	0	0
Mushroom Production	0	0	0	0	0	0	0	0	0	0	0	0	0
Beekeeping	1	5	3	8	6	0	6	1	0	1	12	3	15
Sericulture	0	0	0	0	0	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Value addition	0	0	0	0	0	0	0	0	0	0	0	0	0
Small scale processing	0	0	0	0	0	0	0	0	0	0	0	0	0
Post Harvest Technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0	0	0	0	0	0
Sheep and goat rearing	1	0	3	3	0	7	7	0	5	5	0	15	15
Quail farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Poultry production	1	0	0	0	3	24	27	0	0	0	3	24	27
Ornamental fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	1	23	7	30	4	2	6	0	0	0	27	9	36
Total	**4**	**28**	**13**	**41**	**13**	**33**	**46**	**1**	**5**	**6**	**42**	**51**	**93**

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	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Pest Management	0	0	0	0	0	0	0	0	0	0	0	0	0
Integrated Nutrient management	0	0	0	0	0	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0	0	0	0	0	0
Protected cultivation technology	0	0	0	0	0	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0	0	0	0	0	0
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0	0	0	0	0	0
Women and Childcare	0	0	0	0	0	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0	0	0	0	0	0
Capacity building for ICT application	0	0	0	0	0	0	0	0	0	0	0	0	0
Management in farm animals	0	0	0	0	0	0	0	0	0	0	0	0	0
Livestock feed and fodder production	0	0	0	0	0	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0	0	0	0	0	0
Other (Integrated Farming System)	1	10	4	14	6	1	7	9	1	10	25	6	31
Other (Capacity Building on Quality Assurance of Different Testing Laboratories)	1	21	1	22	7	1	8	3	0	3	31	2	33
Other (Training on Para Extension Worker)	1	0	2	2	0	38	38	0	5	5	0	45	45
Other (Natural Farming)	1	5	0	5	0	1	1	1	1	2	6	2	8
Total	**4**	**36**	**7**	**43**	**13**	**41**	**54**	**13**	**7**	**20**	**62**	**55**	**117**

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
				M	F	T	Type of units	Number of units	Number of persons employed	
Bee Keeping Unit	Beekeeping	Bee keeping (STRY Programme)	07	12	03	15	Bee Keeping Unit	06	06	06
Bio-Input Production	Production of Organic Inputs	Production of Organic Inputs and Soil Testing	09	20	06	26	Organic Input Production	07	10	05
Commercial Broiler and Layer Farming	Poultry Production	Commercial Broiler and Layer Farming	08	08	01	09	Poultry Broiler Unit	05	05	04
Commercial Broiler and Layer Farming	Poultry Production	Commercial Broiler and Layer Farming	04	03	24	27	Poultry Broiler Unit	03	09	12
Scientific Goatery Management	Goat Farming	Scientific Goatery Management	05	08	10	18	Goat Farms	10	10	08
Winter Vegetables	Production Technology	Nursery Management and Seeding Raising for Winter Vegetables (STRY)	05	01	45	46	Vegetable Field	40	40	06
Vermicompost	Production of Organic Inputs	Preparation of Vermicompost (STRY)	05	12	27	39	Vermicompost Unit	15	15	10

***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 (Production of Organic Inputs)	01	14	06	20	01	00	01	05	00	05	20	06	26
Total	01	14	06	20	01	00	01	05	00	05	20	06	26
Post harvest technology and value addition													
Value addition													
Other													
Total													
Livestock and fisheries													
Dairy farming													
Composite fish culture													
Sheep and goat rearing	01	00	00	00	07	06	13	01	04	05	08	10	18
Piggery													
Poultry farming	02	06	00	06	03	24	27	02	01	03	11	25	36
Other													
Total	**03**	**06**	**00**	**06**	**10**	**30**	**40**	**03**	**05**	**08**	**19**	**35**	**54**
Income generation activities													
Vermicomposting	01	02	00	02	10	27	37	00	00	00	12	27	39
Production of bioagents, biopesticides,													
biofertilizers etc.													
Repair and maintenance of farm machinery & implements													
Rural Crafts													
Seed production													
Sericulture													
Mushroom cultivation													
Nursery, grafting etc.													
Tailoring, stitching, embroidery, dying etc.													
Agril. Para-workers, para-vet training													
Other (Bee keeping Units)	01	05	03	08	06	00	06	01	00	01	12	03	15
Total	**02**	**07**	**03**	**10**	**16**	**27**	**43**	**01**	**00**	**01**	**24**	**30**	**54**
Agricultural Extension													
Capacity building and group dynamics													
Other													
Total													
Grand Total	**06**	**27**	**09**	**36**	**27**	**57**	**84**	**09**	**05**	**14**	**63**	**71**	**134**

I) Sponsored Training Programmes

a) Details of Sponsored Training Programme

Sl. No.	Title	Thematic area	Month	Duration (days)	Client PF/RY/EF	No. of courses	No. of participants	Sponsoring Agency
01.	Cultivation practices of Potato.	Increasing production and productivity of crops	JAN	1	EF	1	36	self
02.	Practical-Land preparation and sowing of Potato.	Increasing production and productivity of crops	JAN	1	EF	1	36	self
03.	Cultivation practices of Potato.	Increasing production and productivity of crops	JAN	1	EF	1	39	self
04.	Practical-Land preparation and sowing of Potato.	Increasing production and productivity of crops	JAN	1	EF	1	39	self
05.	Importance of rice-based agroforestry for restoration of degraded red and lateritic soil.	Other	JAN	1	EF	1	37	self
06.	Importance of agroforestry in improving sustained farmers' profit.	Other	JAN	1	EF	1	37	self
07.	Importance of agroforestry in improving sustained farmers' profit.	Other	JAN	1	EF	1	39	self
08.	Importance of rice-based agroforestry for restoration of degraded red and lateritic soil.	Other	JAN				39	
09.	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	Other	JAN	1	EF	1	38	self
10.	Pest- Brief introduction and classification.	Methods of protective cultivation	JAN	1	EF	1	38	self
11.	Pest- Brief introduction and classification.	Methods of protective cultivation	JAN	1	EF	1	37	self
12.	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	Other	JAN	1	EF	1	37	self
13.	Integrated Pest Management.	Methods of protective cultivation	JAN	1	EF	1	29	self
14.	Importance and characteristics of various types of HYV seeds.	Production of Inputs at site	JAN	1	EF	1	31	self
15.	Orchard management of Mango.	Fruit Plants	JAN	1	EF	1	32	self
16.	Integrated Pest Management.	Methods of protective cultivation	JAN	1	EF	1	31	self
17.	Introduction to Soil Science and properties of soil.	Soil health and fertility management	JAN	1	EF	1	35	self
18.	Practical- Soil sample collection for soil testing.	Soil health and fertility management	JAN	1	EF	1	36	self
19.	Introduction to Soil Science and properties of soil.	Soil health and fertility management	JAN	1	EF	1	38	self
20.	Practical- Soil sample collection for soil testing.	Soil health and fertility management	JAN	1	EF	1	37	self
21.	Practical- Making of various natural farming products.	Production of Inputs at site	FEB	1	EF	1	40	self
22.	Concept of Natural farming.	Other	FEB	1	EF	1	40	self
23.	Practical- Making of various natural farming products.	Production of Inputs at site	FEB	1	EF	1	38	self
24.	Concept of Natural farming.	Other	FEB	1	EF	1	38	self
25.	Production and use of Biofertilizers.	Production of Inputs at site	FEB	1	EF	1	36	self
26.	Practical -Land preparation and sowing of Maize and Chilli as intercrop using organic products.	Increasing production and productivity of crops	FEB	1	EF	1	35	self
27.	Practical -Land preparation and sowing of Maize and Chilli as intercrop using organic products.	Increasing production and productivity of crops	FEB	1	EF	1	39	self
28.	Production and use of Biofertilizers.	Production of Inputs at site	FEB	1	EF	1	39	self
29.	General idea about Pest Management of important crops.	Methods of protective cultivation	FEB	1	EF	1	39	self

30.	Propagation Techniques of different horticultural crops.	Fruit Plants	FEB	1	EF	1	39	self
31.	General idea about Pest Management of important crops.	Methods of protective cultivation	FEB	1	EF	1	40	self
32.	Propagation Techniques of different horticultural crops.	Fruit Plants	FEB	1	EF	1	40	self
33.	General concepts of Agricultural Marketing.	Other	MAR	1	EF	1	31	self
34.	Agricultural loan and crop insurance.	Other	MAR	1	EF	1	33	self
35.	General concepts of Agricultural Marketing.	Other	MAR	1	EF	1	39	self
36.	Agricultural loan and crop insurance.	Other	MAR	1	EF	1	38	self
37.	Soil profile and types.	Soil health and fertility management	MAR	1	EF	1	33	self
38.	Production technology of Tomato & Brinjal.	Commercial production of vegetables	MAR	1	EF	1	33	self
39.	Soil profile and types.	Soil health and fertility management	MAR	1	EF	1	39	self
40.	Production technology of Tomato & Brinjal.	Commercial production of vegetables	MAR	1	EF	1	39	self
41.	Exposure visit to Garden Section, Visva-Bharati, Santiniketan.	Other	MAR	1	EF	1	36	self
42.	Exposure visit to Garden Section, Visva-Bharati, Santiniketan.	Other	MAR	1	EF	1	38	self
43.	IPM of Tomato & Brinjal.	Methods of protective cultivation	MAR	1	EF	1	35	self
44.	Production technology of summer cucurbitaceous vegetables.	Commercial production of vegetables	MAR	1	EF	1	35	self
45.	Production technology of summer cucurbitaceous vegetables.	Commercial production of vegetables	MAR	1	EF	1	36	self
46.	IPM of Tomato & Brinjal.	Methods of protective cultivation	MAR	1	EF	1	36	self
47.	Classification of Plant nutrients and their functions.	Soil health and fertility management	APR	1	EF	1	38	self
48.	Calculation of fertilizer requirement according to fertilizer doses.	Soil health and fertility management	APR	1	EF	1	39	self
49.	Classification of Plant nutrients and their functions.	Soil health and fertility management	APR	1	EF	1	43	self
50.	Calculation of fertilizer requirement according to fertilizer doses.	Soil health and fertility management	APR	1	EF	1	43	self
51.	Improved cultivation practices of Mango.	Fruit Plants	APR	1	EF	1	39	self
52.	Scientific cultivation of Mustard.	Increasing production and productivity of crops	APR	1	EF	1	40	self
53.	Improved cultivation practices of Mango.	Fruit Plants	APR	1	EF	1	32	self
54.	Scientific cultivation of Mustard.	Increasing production and productivity of crops	APR	1	EF	1	32	self
55.	Exposure visits to India Meteorological Department, Sriniketan, Birbhum	Other	APR	1	EF	1	40	self
56.	Exposure visits to India Meteorological Department, Sriniketan, Birbhum	Other	APR	1	EF	1	40	self
57.	Production technology of Kharif Rice.	Increasing production and productivity of crops	APR	1	EF	1	35	self
58.	Pests of solanaceous vegetables and their management.	Commercial production of vegetables	APR	1	EF	1	35	self
59.	Production technology of Kharif Rice.	Increasing production and productivity of crops	APR	1	EF	1	37	self
60.	Pests of solanaceous vegetables and their management.	Commercial production of vegetables	APR	1	EF	1	37	self
61.	Idea of different plant protection techniques.	Methods of protective cultivation	APR	1	EF	1	39	self

62.	Basic principles of irrigation and quality of irrigation water.	Increasing production and productivity of crops	MAY	1	EF	1	36	self
63.	General idea about weed and its classification.	Increasing production and productivity of crops	MAY	1	EF	1	36	self
64.	General idea about weed and its classification.	Increasing production and productivity of crops	MAY	1	EF	1	38	self
65.	Techniques of Millet cultivation.	Increasing production and productivity of crops	JUN	1	EF	1	36	self
66.	Production technology of summer vegetables.	Commercial production of vegetables	JUN	1	EF	1	36	self
67.	Production technology of summer vegetables.	Commercial production of vegetables	JUN	1	EF	1	36	self
68.	Techniques of Millet cultivation.	Increasing production and productivity of crops	JUN	1	EF	1	36	self
69.	Problematic soils and their management.	Soil health and fertility management	JUN	1	EF	1	40	self
70.	Introduction to Agro meteorology.	Other	JUN	1	EF	1	40	self
71.	Introduction to Agro meteorology.	Other	JUN	1	EF	1	34	self
72.	Problematic soils and their management.	Soil health and fertility management	JUN	1	EF	1	35	self
73.	Different instruments and equipment used in Soil Testing Laboratory & preparation of soil health card.	Soil health and fertility management	JUL	1	EF	1	38	self
74.	Different ongoing schemes of agriculture for farmers.	Other	JUL	1	EF	1	38	self
75.	Different instruments and equipment used in Soil Testing Laboratory & preparation of soil health card.	Soil health and fertility management	JUL	1	EF	1	33	self
76.	Different ongoing schemes of agriculture for farmers.	Other	JUL	1	EF	1	33	self
77.	Agrometeorological situation and crop production.	Other	JUL	1	EF	1	38	self
78.	Disease management of Paddy.	Methods of protective cultivation	JUL	1	EF	1	37	self
79.	Agrometeorological situation and crop production.	Other	JUL	1	EF	1	36	self
80.	Disease management of Paddy.	Methods of protective cultivation	JUL	1	EF	1	35	self
81.	IPM of Kharif rice.	Methods of protective cultivation	JUL	1	EF	1	36	self
82.	Azolla Multiplication.	Production of Inputs at site	JUL	1	EF	1	36	self
83.	Azolla Multiplication.	Production of Inputs at site	JUL	1	EF	1	37	self
84.	IPM of Kharif rice.	Methods of protective cultivation	JUL	1	EF	1	37	self
85.	Disease of different crops, their spreading behaviour and management practices.	Methods of protective cultivation	JUL	1	EF	1	38	self
86.	Problems of weed and weed management.	Increasing production and productivity of crops	JUL	1	EF	1	39	self
87.	Disease of different crops, their spreading behaviour and management practices.	Methods of protective cultivation	JUL	1	EF	1	36	self
88.	Problems of weed and weed management.	Increasing production and productivity of crops	JUL	1	EF	1	36	self
89.	Exposure Visit to Agriculture Farm, Rathindra Krishi Vigyan Kendra, PSB, VB	Other	JUL	1	EF	1	40	self
90.	Visit to Agriculture Farm of Rathindra KVK, PSB, Visva-Bharati, Sriniketan	Other	AUG	1	EF	1	40	self
91.	Weed problem in rice and management.	Increasing production and productivity of crops	AUG	1	EF	1	36	self
92.	Discussion of IPM model of rice.	Methods of protective cultivation	AUG	1	EF	1	34	self

93.	Weed problem in rice and management.	Increasing production and productivity of crops	AUG	1	EF	1	38	self
94.	Discussion of IPM model of rice.	Methods of protective cultivation	AUG	1	EF	1	38	self
95.	Weed management in kharif crops.	Increasing production and productivity of crops	AUG	1	EF	1	39	self
96.	Cultivation of kharif vegetables.	Commercial Production of vegetables	AUG	1	EF	1	39	self
97.	Weed management in kharif crops.	Increasing production and productivity of crops	AUG	1	EF	1	37	self
98.	Cultivation of kharif vegetables.	Commercial Production of vegetables	AUG	1	EF	1	36	self
99.	Practical- Different propagation techniques of different horticultural crops.	Fruit Plants	AUG	1	EF	1	39	self
100.	Production technology of kharif maize.	Increasing production and productivity of crops	AUG	1	EF	1	39	self
101.	Production technology of kharif maize.	Increasing production and productivity of crops	AUG	1	EF	1	38	self
102.	Practical- Different propagation techniques of different horticultural crops.	Fruit Plants	AUG	1	EF	1	38	self
103.	Management of Nematode in rice.	Methods of protective cultivation	AUG	1	EF	1	36	self
104.	Methods of Irrigation.	Increasing production and productivity of crops	AUG	1	EF	1	37	self
105.	Management of Nematode in rice.	Methods of protective cultivation	AUG	1	EF	1	37	self
106.	Methods of Irrigation.	Increasing production and productivity of crops	AUG	1	EF	1	36	self
107.	A brief idea about hydroponics and its application.	Other	SEP	1	EF	1	38	self
108.	Nutrient deficiency symptoms and their management.	Soil health and fertility management	SEP	1	EF	1	38	self
109.	Nutrient deficiency symptoms and their management.	Soil health and fertility management	SEP	1	EF	1	37	self
110.	A brief idea about hydroponics and its application.	Other	SEP	1	EF	1	37	self
111.	Production Technology of Wheat	Increasing production and productivity of crops	SEP	1	EF	1	37	self
112.	Production technology of Litchi	Fruit Plants	SEP	1	EF	1	37	self
113.	Production technology of Litchi and Guava.	Fruit Plants	SEP	1	EF	1	37	self
114.	Production Technology of Wheat	Increasing production and productivity of crops	SEP	1	EF	1	37	self
115.	IPM of Kharif Maize.	Methods of protective cultivation	SEP	1	EF	1	37	self
116.	Production Technology of Sugarcane.	Increasing production and productivity of crops	SEP	1	EF	1	37	self
117.	IPM of Kharif Maize.	Methods of protective cultivation	SEP	1	EF	1	37	self
118.	Production Technology of Sugarcane.	Increasing production and productivity of crops	SEP	1	EF	1	37	self
119.	Production Technology of citrus and papaya.	Fruit Plants	SEP	1	EF	1	39	self
120.	IPM of Wheat.	Methods of protective cultivation	SEP	1	EF	1	39	self
121.	IPM of Wheat.	Methods of protective cultivation	OCT	1	EF	1	40	self
122.	Production Technology of citrus and papaya.	Fruit Plants	OCT	1	EF	1	40	self
123.	IPM of Sugarcane.	Methods of protective cultivation	OCT	1	EF	1	37	self
124.	Practical-Identification of Varieties, Weeds and Disease-Pest in the Paddy field.	Increasing production and productivity of crops	OCT	1	EF	1	37	self
125	IPM of Sugarcane.	Methods of protective cultivation	OCT	1	EF	1	29	self

126.	Practical-Identification of Varieties, Weeds and Disease-Pest in the Paddy field.	Increasing production and productivity of crops	OCT	1	EF	1	29	self
127.	IPM of Cole crops.	Methods of protective cultivation	OCT	1	EF	1	39	self
128.	Production Technology of Cole crops.	Commercial production of vegetables	OCT	1	EF	1	39	self
129.	Production Technology of Cole crops.	Commercial production of vegetables	OCT	1	EF	1	37	self
130.	IPM of Cole crops.	Methods of protective cultivation	OCT	1	EF	1	37	self
131.	Visit to Sriniketan Sericulture Composite Unit, Jambuni, Bolpur	Other	OCT	1	EF	1	39	self
132.	Visit to Sriniketan Sericulture Composite Unit, Jambuni, Bolpur	Other	OCT	1	EF	1	37	self
133.	Pest management of oilseed and pulses.	Methods of protective cultivation	OCT	1	EF	1	35	self
134	Weed Management of oilseeds, pulses and vegetables in rabi season.	Increasing production and productivity of crops	OCT	1	EF	1	35	self
135.	Pest management of oilseed and pulses.	Methods of protective cultivation	OCT	1	EF	1	36	self
136.	Weed Management of oilseeds, pulses and vegetables in rabi season.	Increasing production and productivity of crops	OCT	1	EF	1	36	self
137.	Checking of all records and suggestion.	Other	NOV	1	EF	1	29	self
138.	Production technology of Pulses.	Increasing production and productivity of crops	NOV	1	EF	1	29	self
139.	Checking of all records and suggestion.	Other	NOV	1	EF	1	35	self
140.	Production technology of Pulses.	Increasing production and productivity of crops	NOV	1	EF	1	35	self
141.	Exposure Visit to Sub-division Adaptive Research Farm, Bolpur, Birbhum	Other	NOV	1	EF	1	40	self
142.	Exposure Visit to Sub-division Adaptive Research Farm, Bolpur, Birbhum	Other	NOV	1	EF	1	40	self
143.	Production technology of Oilseeds	Increasing production and productivity of crops	NOV	1	EF	1	39	self
144.	Demonstration of spotting of different items for final examination.	Other	NOV	1	EF	1	33	self
145.	Demonstration of spotting of different items for final examination.	Other	NOV	1	EF	1	33	self
146.	Production technology of Oilseeds	Increasing production and productivity of crops	NOV	1	EF	1	33	self
147.	4th quiz examination, evaluation and discussion	Other	NOV	1	EF	1	40	self
148.	Nursery management of Rabi vegetables.	Commercial production of vegetables	NOV	1	EF	1	39	self
149.	Nursery management of Rabi vegetables.	Commercial production of vegetables	NOV	1	EF	1	40	self
150.	4th quiz examination, evaluation and discussion	Other	NOV	1	EF	1	40	self
151.	Exposure Visit to School of Agriculture, Seacom Skills University, Kendradangal, Birbhum.	Other	NOV	1	EF	1	39	self
152.	Exposure Visit to School of Agriculture, Seacom Skills University, Kendradangal, Birbhum.	Other	NOV	1	EF	1	40	self
153.	Discussion of course module and different records to be maintained.	Other	NOV	1	EF	1	39	self
154.	Orientation and introductory session.	Other	NOV	1	EF	1	39	self
155.	Orientation and introductory session.	Other	NOV	1	EF	1	38	self

156.	Exposure Visit to RRSS-BCKV, Sekhampur, Birbhum.	Other	NOV	1	EF	1	39	self
157.	Discussion of course module and different records to be maintained.	Other	NOV	1	EF	1	38	self
158.	Exposure Visit to RRSS-BCKV, Sekhampur, Birbhum.	Other	NOV	1	EF	1	39	self
159.	Pest Management of Rabi Vegetables.	Methods of protective cultivation	NOV	1	EF	1	40	self
160.	Revision of the Syllabus.	Other	NOV	1	EF	1	40	self
161.	Awareness workshop for farmers on PM-KUSUM	Other	NOV	1	EF	1	33	self
162.	Disease management of Rabi crops.	Methods of protective cultivation	NOV	1	EF	1	33	self
163.	Disease management of Rabi crops.	Methods of protective cultivation	NOV	1	EF	1	34	self
164.	Pest Management of rabi vegetables (part 2)	Methods of protective cultivation	NOV	1	EF	1	35	self
165.	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	Other	NOV	1	EF	1	39	self
166.	Pest- Brief introduction and classification.	Methods of protective cultivation	NOV	1	EF	1	39	self
167.	Exposure visits to Joydurga Fish Seed Farm, Hatserandi, Birbhum	Other	NOV	1	EF	1	40	self
168.	Exposure visits to Joydurga Fish Seed Farm, Hatserandi, Birbhum	Other	NOV	1	EF	1	38	self
169.	Pest- Brief introduction and classification.	Methods of protective cultivation	NOV	1	EF	1	35	self
170.	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	Other	NOV	1	EF	1	35	self
171.	Revision and recapitulation of syllabus.	Other	NOV	1	EF	1	40	self
172.	Suggestions for final exam and records submission.	Other	NOV	1	EF	1	40	self
173.	Suggestions for final exam and records submission.	Other	NOV	1	EF	1	39	self
174.	Pest Management of oilseed and pulses (part 2)	Methods of protective cultivation	NOV	1	EF	1	39	self
175.	Introduction to tillage.	Increasing production and productivity of crops	DEC	1	EF	1	37	self
176.	Introduction of different divisions of agriculture.	Other	DEC	1	EF	1	37	self
177	Introduction to tillage.	Increasing production and productivity of crops	DEC	1	EF	1	38	self
178	Introduction of different divisions of agriculture.	Other	DEC	1	EF	1	38	self
179	Introduction to soil science.	Soil health and fertility management	DEC	1	EF	1	39	self
180	Different types of mouthparts and life cycle of insect.	Methods of protective cultivation	DEC	1	EF	1	39	self
181	Introduction to soil science.	Soil health and fertility management	DEC	1	EF	1	37	self
182	Different types of mouthparts and life cycle of insect.	Methods of protective cultivation	DEC	1	EF	1	37	self
183	Different types of Nutrients and their functions	Soil health and fertility management	DEC	1	EF	1	33	self
184	Practical- Soil sample collection for soil testing.	Soil health and fertility management	DEC	1	EF	1	32	self
185	Practical- Soil sample collection for soil testing.	Soil health and fertility management	DEC	1	EF	1	36	self
186	Different types of Nutrients and their functions	Soil health and fertility management	DEC	1	EF	1	36	self
187	Calculation of fertilizer requirements according to fertilizer doses.	Soil health and fertility management	DEC	1	EF	1	37	self
188	Effect of different components of atmosphere and global warming on agriculture.	Other	DEC	1	EF	1	37	self

189	Effect of different components of atmosphere and global warming on agriculture.	Other	DEC	1	EF	1	38	self
190	Calculation of fertilizer requirements according to fertilizer doses.	Soil health and fertility management	DEC	1	EF	1	38	self

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													
1) Increasing production and productivity of crops	39	1148	127	1275	130	1	131	15	0	15	1293	128	1421
2) Commercial production of vegetables	14	410	49	459	52	0	52	6	0	6	468	49	517
3) Production and value addition													
4) Fruit Plants	11	328	38	366	40	0	40	6	0	6	374	38	412
5) Ornamental plants	0	0	0	0	0	0	0	0	0	0	0	0	0
6) Spices crops													
7) Soil health and fertility management	24	738	62	800	73	4	77	11	0	11	822	66	888
8) Production of Inputs at site	7	207	25	232	26	0	26	3	0	3	236	25	261
9) Methods of protective cultivation	38	1085	119	1204	131	2	133	16	0	16	1232	121	1353
10) Other	57	1786	169	1955	184	5	189	31	0	31	2001	174	2175
Total	**190**	**5702**	**589**	**6291**	**636**	**12**	**648**	**88**	**0**	**88**	**6426**	**601**	**7027**
Post harvest technology and value addition													
Processing and value addition													
Other													
Total													
Farm machinery													
Farm machinery, tools and implements	2	62	4	66	8	0	0	0	0	0	70	4	74
Other													
Total	**2**	**62**	**4**	**66**	**8**	**0**	**0**	**0**	**0**	**0**	**70**	**4**	**74**
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	**192**	**5764**	**593**	**6357**	**644**	**12**	**648**	**88**	**0**	**88**	**6496**	**605**	**7101**

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)	M	F	T	M	F	T
Field Day	17	135	52	187	45	17	01	18	162	63	225
Kisan Mela	02	900	590	1490	47	30	03	33	1036	615	1651
Kisan Ghosthi											
Exhibition											
Film Show											
Method Demonstrations											
Farmers Seminar											
Workshop											
Group meetings											
Lectures delivered as resource persons											
Advisory Services											
Scientific visit to farmers field	14	50	12	62	74	17	10	27	62	20	82
Farmers visit to KVK	145	270	80	350	60	112	50	162	370	118	488
Diagnostic visits											
Exposure visits											
Ex-trainees Sammelan											
Soil health Camp											
Animal Health Camp											
Agri mobile clinic											
Soil test campaigns											
Farm Science Club Conveners meet											
Self Help Group Conveners meetings											
Mahila Mandals Conveners meetings											
Celebration of one day special programmes	06	1435	655	2090	675	40	10	50	1675	765	2440
Any Other (Specify)											
Total	**184**	**2790**	**1389**	**4179**	**901**	**226**	**75**	**301**	**3529**	**1715**	**5244**

B. Other Extension activities

Nature of Extension Activities	No. of Activities
Radio Talks	**04**
TV Talks	**-**
Extension Literature	**08**
Others, if any (Animal Health Camps)	**05**

3.5 a. Production and supply of Technological products

Village seed

Crop	Variety	Qty of Seeds (q)	Value (Rs.)	No. of farmers involved in village seed production	No. of farmers to whom seed provided							
					SC		ST		Others		Total	
					M	F	M	F	M	F	M	F
Paddy	CR Dhan-800, Ranidhan, MTU-1153, Dhiren, MTU-7029	500	2000000	342	218	87	93	126	418	337	**729**	**550**
Black Gram	PU-31, VBN-8	500	5250000	409	185	73	41	19	376	194	**602**	**286**
Sesame	Suprava	350	3675000	147	138	54	47	18	22	33	**207**	**105**
Lentil	L-4717, IPL-315	350	3675000	78	63	51	27	54	156	126	**246**	**231**
Mustard	PM-30, PM-28	150	1575000	199	137	91	23	25	156	77	**316**	**193**
Chickpea	Purva	280	2940000	76	89	27	22	19	161	103	**272**	**149**
Total		**2130**	**19115000**	**1251**	**830**	**383**	**253**	**261**	**1289**	**870**	**2372**	**1514**

KVK farm

Crop	Variety	Qty of Seeds (q)	Value (Rs.)	No. of farmers to whom seed provided							
				SC		ST		Others		Total	
				M	F	M	F	M	F	M	F
Elephant foot yam	Bidhan Kusum	1.6	9600	5	3	1	1	3	2	**9**	**6**
Black Gram	PU-31	5.3	55650	11	7	4	2	4	2	**19**	**11**
Black Gram	VBN-8	1.0	10500	4	3	5	2	3	7	**12**	**12**
Finger millet	Indravathi	3.0	30000	26	18	21	17	33	9	**80**	**44**
Turmeric	Saguna	2.5	17500	9	3	4	3	5	6	**18**	**12**
Ekangi	K. galana	1.95	21450	14	7	6	5	7	6	**27**	**18**
Oat	R0-11-1	1.5	9000	6	4	4	3	3	7	**13**	**14**
Paddy	Rani dhan	20.16	80640	93	52	39	61	56	53	**188**	**166**
Paddy	MTU-1153	4.8	19200	11	5	7	9	11	3	**29**	**17**
Paddy	CR Dhan-800	7.7	30800	31	17	11	18	29	24	**71**	**59**
Paddy	Dhiren	5.31	23895	10	7	8	12	7	9	**25**	**28**
Lentil	IPL-315	1.0	10500	16	7	11	5	6	11	**33**	**23**

Lentil	IPL-315 (FS)	1.0	12000	9	5	9	7	9	3	**27**	**15**
Chickpea	Purva	1.20	12600	3	5	2	3	4	3	**9**	**11**
Ricebean	Bidhan-1	1.0	8000	2	4	1	3	2	3	**5**	**10**
Mustard	PM-30	3.61	37905	130	65	24	22	156	77	**310**	**164**
Total		**66.23**	**427040**	**518**	**285**	**210**	**221**	**357**	**249**	**1085**	**755**

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	No. of farmers to whom planting materials provided							
				SC		ST		Others		Total	
				M	F	M	F	M	F	M	F
Vegetable seedlings											
Cauliflower	Pusa Snowball, CFL-122	6000	24000	26	31	22	26	15	30	**63**	**87**
Cabbage	Green Master, Blue Jans	6000	24000	35	29	16	27	18	26	**69**	**82**
Broccoli	Green Magic	10000	40000	26	27	25	29	19	17	**70**	**73**
Tomato	Saksham, Abhilas, Arko Samrat	10000	40000	41	29	31	15	16	21	**88**	**65**
Brinjal	VNR-212, Mukto keshi, VNR-85, Bhangar	6000	24000	32	26	19	22	19	23	**70**	**71**
Chili	Siam Hot, Akashi -10, Suryamukhi, Bullet, Arko Meghna	7000	28000	23	31	21	18	9	11	**53**	**60**
Capsicum	Asha, Jaya, Delisha	8000	32000	17	22	9	13	17	18	**43**	**53**
Yellow cauliflower	Carotena	11000	44000	16	24	28	13	16	19	**60**	**56**
Pink Cauliflower	Valentena	2000	8000	19	11	9	22	19	7	**47**	**40**
Drumstick	PKM-1	10000	200000	71	37	33	47	8	10	**112**	**94**
Others											
Fruits											
Mango											
Guava											
Lime											
Papaya											
Banana											
Dragon fruit	Delight	250	5000	17	27	9	13	11	9	**37**	**49**
Others											
Ornamental plants											
Medicinal and Aromatic											
Plantation											
Spices											
Turmeric											
Tuber											
Elephant yams											
Fodder crop saplings											
Forest Species											
Others, pl. specify											
Total		**76250**	**309000**	**323**	**294**	**222**	**245**	**167**	**191**	**712**	**730**

Production of Bio-Products

Name of the Product	Quantity (Kg)	Value (Rs.)	No. of farmers benefitted							
			SC		ST		Others		Total	
			M	F	M	F	M	F	M	F
Bio-fertilizer										
(i)Azolla	5000	300000	133	75	37	26	41	33	**211**	**134**
(ii)Vermicompost	15000	225000	153	118	95	39	32	56	**280**	**213**
Bio-pesticide										
Bio-Fungicide										
Bio-agents (Earth Worm)	31	77500	86	71	43	31	52	33	**181**	**135**
Total	**20031**	**602500**	**372**	**264**	**175**	**96**	**125**	**122**	**672**	**482**

Production of livestock materials

Particulars of Livestock	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											
Broilers											
Layers Hens	Aseel	6	2694	0	1	0	0	0	0	0	1
	Kadaknath	4	2422	1	0	0	0	0	0	1	0
	Kaveri	8	1842	1	0	0	0	0	0	1	0
Cock	Aseel	6	576	3	0	0	0	3	0	6	0
	Kadaknath	7	480	1	0	0	0	2	0	3	0
	Kaveri	4	960	1	0	0	0	3	0	4	0
Duals (broiler and layer)	RIR	81	3990	3	1	0	0	6	0	10	0
Chicks	Vanraja	60	3660	0	0	0	0	3	0	3	0
	Kadaknath	5	225	1	0	0	0	0	0	1	0
Turkey	Bronze	2	1100	1	0	0	0	1	0	2	0
Guinea Fowl	Pearl Lavender	8	1774	0	1	0	0	2	0	2	1
Others (Pl. specify) Egg		513	3078	3	0	2	0	15	0	20	0
Fisheries											
Indian Carp	Rohu, Katla	1050	11300	47	3	7	3	37	4	91	10
Exotic carp											
Mixed carp											
Fish fingerlings											
Spawn											
Others (pl. specify)	Singi	100	30000	37	2	13	15	23	9	73	26
Grand Total		**1854**	**64101**	**99**	**8**	**22**	**18**	**95**	**13**	**217**	**38**

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 2023						
Rabi 2021-22						
Summer/Spring 2023						
Kharif 2023						
Rabi 2022-2023						

iii) Financial Progress

Fund received. (2019-20, 2020-21, 2021-22 and 2022-23)	Expenditure (Rs. in lakhs)		Unspent balance (Rs. in lakhs)	Remarks
	Infrastructure	Revolving fund		
2019-20				
2020-21				
2021-22				
2022-23				

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	1. "Performance of Different Multi Coloured Broiler Varieties in Red Lateritic Agro Climatic Region of West Bengal"	**Madhuchhanda Khan,** G. Patra, A. Das, S. M. S. Anwar and A. Haldar	01	Accepted by Indian Journal of Poultry Science
Seminar/conference/ symposia papers	1. "Performance of Taro (Colocasia esculenta L. Schott) intercropping at lateritic belt of Birbhum District" at 7th International Symposium on Minor Fruits, Medicinal and Aromatic Plants dated 22-23 November, 2024 at Institute of Agriculture, Visva-Bharati, Sriniketan, Birbhum	**Palash Ankure, Subrata Mandal, Sourav Mondal and Sayak Mahato**	01	Accepted and presented in the Symposium
Books				
Bulletins				
Newsletter				
Popular Articles				
Book Chapter	1. Capacity Development and Sustainable Livelihood Generation by Successful and Profitable Pig Farming in Semi-Arid Region of India (Sent for Publication)	**Madhuchhanda Khan,** Kalyan Sundar Das and Shyamal Kumar Mondal	02	Not Assessed
	2. "Agriculture Based Integrated Farming for improving income and nutrition in upland farming situation of Birbhum District" in edited book "Integrated Farming System in West Bengal: A step towards Sustainable Rural Livelihoods" edited by Avijit Halder, Satyendra Nath Mandal, Upama Das, Kunal Roy, Ayan Das, Purbendu Samanta, Salim Sahaji and Pradip Dey, ICAR-ATARI, Kolkata. ISBN: 978-81-970646-3-0. March, 2024, Pp. 104-110	**Madhuchhanda Khan,** Krishna Mitra and **Subrata Mandal**		
Extension Pamphlets/ literature	1. "Krishi Khetrer Unnonayan OO Adhuunikikaraner jono (Mooldhan Prawaho samparke) Bharat Sarkarer Krishi OO Krishak Kalyan Mantralya Sampraotik Uddog" [Recent Initiatives (regarding Capital flow) of Ministry of Agriculture and Farmers Welfare, Govt. of India for Development and Modernization of Agricultural Sector]	**Dr. Prabuddha Ray**	08	4000
	2. "Prashikhan Karmosuchi Mulyan – Abhimat Suchak Firti Tathya Ghapok Prashnottar Kathamo" (Question – Answer Schedule – Perception based Feedback Form for Evaluation of Training Programmes)	**Dr. Prabuddha Ray**		
	3. Unnoto Prathay Ragi Chash (Improved Cultivation Practices of Finger Millet)	**Dr. Subrata Mandal**		
	4. Unnoto Prathay Bajra Chash (Improved Cultivation Practices of Pearl Millet)	**Dr. Subrata Mandal**		
	5. Prakitik Chaser Bivinno Upadan (Different inputs of Natural Farming)	**Dr. Subrata Mandal**		
	6. Banglar Kalo Chhagal Palon (Rearing of Black Bengal Goat)	**Dr. Madhuchhanda Khan**		
	7. Abhaoa Anukul Susthayi Krishi (Climate Resilient Agriculture)	**Sri Sayak Mahato**		
	8. Sree Anna- Millet utpadone Kendriyo sarkarer utsaho dan (Encouragement of central government in Millet Cultivation)	**Dr. Prabuddha Ray**		
Technical reports	01. Annual Report	**Dr. Subrata Mandal, Sri. Sourav Mondal, Dr. Prabuddha Ray, Dr. Madhuchhanda Khan, Sri. Sayak Mahato, Sri. Suraj Kumar Bhakta and Sri. Palash Ankure**	11	Not Assessed
	02. Annual Action Plan			
	03. SAC Report			
	04. Rathindra KVK, Birbhum, Report on Awareness Raising Workshop for Farmers on PM-KUSUM Component A on 25.11.2024			
	05. Rathindra KVK, Birbhum, Report on Webcasting of Release of 18th Instalment of PM KISAN on 05.10.2024			
	06. Rathindra KVK, Birbhum, Report on Swachhata Hi Sewa (17.09.2024 - 02.10.2024)			
	07. Rathindra KVK, Birbhum, Report on Tree Plantation on 26.09.2024			
	08. Rathindra KVK, Birbhum, Report on Ek Ped Maa Ke Naam (Plant4Mother) on 21.08.2024			
	09. Rathindra KVK, Birbhum, Report on Interactive Webcasting of Release of 17th Instalment of PM KISAN on 18.06.2024			
	10. Rathindra KVK, Birbhum, Report on Capacity Building Programme on Natural Farming on 30.03.2024			
	11. Rathindra KVK, Birbhum, Report on Workshop on Natural Farming 16.02.2024 - 17.02.2024			
Electronic Publication (CD/DVD etc.)				

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.	National Seminar	Sustainable Agriculture, Rural Development and Future Food Security in India: An Interdisciplinary Approach	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	1-2 March, 2024 (2 days)	Palli Siksha Bhavana, Visva-Bharati, Sriniketan, Birbhum
2.	Capacity Building Programme (online)	Efficient Administrative and Financial Management	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	19.06.2024-05.07.2024 (17 days)	ICAR-National Institute of Abiotic Stress Management, Malegaon, Baramati
3.	Zonal Workshop	Annual zonal workshop of KVKs 2024	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	27.08.2024-29.08.2024 (3 days)	OUAT & ICAR-ATARI, Kolkata
4.	Online Meeting	Online Meeting on Development of Oilseed Model Village	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	7.3.2024 (01 Day)	ICAR-ATARI, Kolkata
5.	Online Meeting	Online Meeting on Development of Oilseed Model Village	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	7.3.2024 (01 Day)	ICAR-ATARI, Kolkata
6.	Awareness –cum-Capacity Building	One day Awareness –cum- Capacity Building Programme on Quality Assurance of Soil Testing Labs	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum		NABL, ICAR-ATARI Kolkata and RKVK Birbhum
7.	Preparatory meeting	Preparatory meeting on "Ek Ped Maa Ke Naam" plantation event on 21st August 2024 creating momentum to Global Campaign #एक पेड़ मां के नाम #Plant4Mother	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	14.8.2024 (1 day)	MoA&FW's, Govt. of India, Krishi Bhavana, New Delhi
8.	VC Meeting	VC Meeting regarding Mapping of Saving Accounts of KVKs under code Krishonnati Yojana-4138	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	26.07.2024	ICAR-ATARI, Kolkata
9.	Interaction meeting	Interaction meeting regarding creation of new accounts in different level	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	7.6.2024	ICAR-ATARI, Kolkata
10.	Online interaction meeting	Online interaction meeting on Oilseed Model Village project	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	30.5.2024	ICAR-ATARI, Kolkata
11.	Online interaction meeting	Online interaction meeting on Oilseed Model Village project	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	30.5.2024	ICAR-ATARI, Kolkata
12.	VC Meeting	Meeting on Status of Krishi Mapper App for CFLD Oilseeds and Pulses	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	13.5.2024	ICAR-ATARI, Kolkata
13.	VC Meeting	Meeting on Status of Krishi Mapper App for CFLD Oilseeds and Pulses	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	13.5.2024	ICAR-ATARI, Kolkata
14.	CFLD Oilseeds Meeting	CFLD Oilseeds Meeting for the year 2024-25	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	7.5.2024	ICAR-ATARI, Kolkata

15.	CFLD Oilseeds Meeting	CFLD Oilseeds Meeting for the year 2024-25	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	7.5.2024	ICAR-ATARI, Kolkata
16.	Interface Meeting	Interface Meeting between ATARI and KVKs	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	18.04.2024	ICAR-ATARI, Kolkata
17.	Review Meeting	Meeting on Expenditure Review and Communication from HQ	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	30.3.2024	ICAR-ATARI, Kolkata
18.	Training for Master Trainers	Training and Exposure Visits for Master Trainers on Natural Farming to the scientists working in KVKs on Natural Farming under ATARI Zone V at Anand, Gujrat	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	18-22.3.2024	National Institute of Agricultural Extension Management (MANAGE), Hyderabad
19.	Zonal Workshop	Zonal Workshop on Natural Farming	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	16- 17.02.2024 (2 days)	ICAR-ATARI, Kolkata
20.	Zonal Workshop	Zonal Workshop on Natural Farming	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	16- 17.02.2024 (2 days)	ICAR-ATARI, Kolkata
21.	Review Meeting	Review Meeting on CFLD (Pulses & Oilseeds) during Summer 2024	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	6.2.2024	ICAR-ATARI, Kolkata
22.	Review Meeting	Review Meeting on CFLD (Pulses & Oilseeds) during Summer 2024	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	6.2.2024	ICAR-ATARI, Kolkata
23.	Regional Agriculture Fair 2024	Regional Agriculture Fair 2024 for participation and interaction with DG, ICAR and Honourable Minister of Agriculture and Farmers Welfare, GOI	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	2-3.2.2024	Agri-bioresources Augmentation (ABA) Division National Institute of Secondary Agriculture (Formerly ICAR-Indian Institute of Natural Resins & Gums)
24.	Interaction Meeting	Meeting on "Efficient handling of finance in the era of real-time payments" with Shri G.P. Sharma, Director of Finance, ICAR, New Delhi	Dr. Subrata Mandal Senior Scientist and Head, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	11.1.2024	ICAR-ATARI, Kolkata
25.	Interaction Meeting	Interaction Meeting on *"Roadmap for Horizontal Expansion and Upscaling of ICAR-CRIJAF Technologies"*	Shri Palash Ankure Farm Manager, Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	25.1.2024	ICAR-CRIJAF, Barrackpore
26.	Online Training cum Workshop	Kisan Sarathi	Sri. Suraj Kumar Bhakta, Programme Assistant (Computer Programmer), Rathindra KVK, Visva-Bharati, Sriniketan, Birbhum	12.01.2024, 09.02.2024, 23.02.2024, 08.03.2024, 22.03.2024,14.06.2024, 09.08.2024, 22.11.2024 (08 Days)	IASRI, New Delhi

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

 # A. Success Story on Oilseed:

Name of KVK: Rathindra Krishi Vigyan Kendra, PSB, Visva-Bharati, Sriniketan, Birbhum
Name of the Crop& Variety: Sesame, Var- Suprava (CUMS-17) [Season: - summer and Year: - 2023-24]
Farmer's Name: - Subrat Ali
Address: - Village: – Shaspur, PO. - Birchandrapur, PS.- Tarapith
Block: - Rampurhat-II
Phone Number: - 9735770041
Aadhar Number: - 728996440642

Background information about farmers' fields:
i). How and why he / She brought under CFLD?
Mr. Subrat Ali and several other practicing farmers of the locality of the village: - Shaspur C.D. Block: - Rampurhat-II, District- Birbhum have undergone various skill development training Programmes on the Topic of "Crop Diversification through introduction of improved oilseeds and pulses in both Rabi and Summer seasons", organized by the Rathindra KVK, Palli Siksha Bhavana, Visva-Bharati, Sriniketan, Birbhum. The area in and around the village- Shaspur is situated on the bank of the river Dwaraka. In this context, this farmers along with several others farmers of his locality has shown keen interest on growing Summer Oilseeds cultivation especially of Sesame instead of Summer Paddy. Among this group of farmers Mr. Subrat Ali maintained a high level of interest and lead the other fellow farmers to become the partner Farmers in the Cluster Front Line Demonstration Programmes on Summer Oilseeds viz. Sesame cultivation in 2023-24 in the above-mentioned area.
ii) Existing practices before adopting CFLD recommendation:
Farmers generally use Sesame varieties like B- 67 (Tilottama), and they do not use any micronutrients and herbicides. They only use chemical fertilizers @ 80- 00 – 00 or 80 – 20 – 00 (N-P-K Respectively Kg. /ha).

Institutional Involvement:
i) Details of inputs and Technology provided:
(A) Seeds of Improved Variety Suprava (CUMS-17)
(B) Herbicides: - Pendimethalin as per-emergence
(C) Foliar spray of Micro- Nutrients (Zinc EDTA).
(D) Need based plant protection chemicals

ii) Details of application of technology with photograph:
(A) Seeds of Improved Variety Suprava (CUMS-17) @ 6 Kg. / ha.
(B) Method of seed sowing: - Broadcasting
(C) Application of herbicides. Pendimethalin @ 3 lit. / ha. at 1- 3 DAS.
(D) Foliar Spray of Micro- Nutrients: - Zinc EDITA @ 1 gm. / lit. of water at 25 and 45 DAS.

Collecting data on Sesame of Cluster FLD Summer Oilseed – 2024 by Rathindra KVK, Birbhum at the Vegetative stage of the plot of Mr. Subrat Ali

Sesame of Cluster FLD Summer Oilseed - 2024 by Rathindra KVK, Birbhum at the Flowering stage of the plot of Mr. Subrat Ali

Data collecting of Sesame under Cluster FLD Summer Oilseed – 2024 by Rathindra KVK, Birbhum at the Maturity stage of the plot of Mr. Subrat Ali

Data collection of Sesame under Cluster FLD Summer Oilseed – 2024 by Rathindra KVK, Birbhum at the Harvesting stage of the plot of Mr. Subrat Ali

iii) Field Days observed:

05.03.2024 - Land preparation & Sowing of improved seeds.
21.03.2024 - Weed Management & Water Management
19.04.2024 - Branching flowering.
29.04.2024 – Micronutrient Spray
30.05.2024 - Harvesting stage
01.06.2024- Post harvest management and storing of summer sesame seeds
02.06.2024 - Post harvest management and storing of summer sesame seeds

Success Point:

Use of the new improved variety Suprava distinctly increased the yield by 65.8 % than the old variety, Tillotoma (B-67). Besides that, spraying of micronutrient Zinc EDITA played beneficial role than local check. And ultimately the benefits of farmers increased by 59%

Farmer Feed Back:

The demonstrated variety Suprava is shorter in duration by 15 days on average than the existing variety i.e. B- 67 (Tilottama) and the average height of the demonstrated variety is also shorter by 10-15 cms. than the Tilottama variety. The number of siliqua per plant is 52 on average under demonstrated variety whereas in the case of the existing variety it is only 30 in numbers. It increased the farmer's income than those obtained from paddy cultivation.

Outcome Yield (q/ha):

Demonstration----------13.1 q/ha
Potential yield of variety--------15.0 q/ha
District Average ----------9.33 q/ha
State Average----------9.15 q/ha

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

Specific Technology	Yield (q/ ha)	Gross Cost (Rs/ha)	Gross income (Rs/ha)	Net Income (Rs/ha)	B:C Ratio
Farmer practices	7.9	16800	43450	26650	2.58
Demonstration	13.1	17500	72050	54550	4.11
% increase	65.8	4.16	65.8	104.6	59

 # B. Succes Story: DAESI Candidate

Story of a Successful Input Dealer

Name of the dealer- Sri. Karuna Sindhu Mandal
Nick Name- Bachhu
Address: Vill- Pukurpara, Kundala, Birbhum, West Bengal- 731234
Year- 2020-21
Batch - 4
TP No.- 1442
Ranked First from 4th batch
Date Of Birth- 22.01.1977

Background:

- Karuna Sindhu Mandal, an input dealer of Mayureswar-II block of Birbhum, was a DAESI student of the year 2020-21 (TP No. 1442).
- He started his carrier as an input Dealer since 1995 which was run by his father.
- When he got the opportunity of this DAESI course, He was successfully completed all the events of DAESI course.
- He was also a good academic in nature.
- He has successfully completed the DAESI course and also appeared for the final examination.

During his course work He earned knowledge–

- Habit and habitats of pest and Diseases.
- Importance of micronutrients in soil along with the macro nutrients.
- Definition of weeds and herbicides.
- Application and safe use of Pesticides.
- How to convince farmers and farm community.
- Diagnostic Services as a para extension worker.

Improvements after completion of DAESI

Gradually his sales increased year after year due to his effective solutions to the farmers and farm community.
He also visits different farmers field to demonstrate different technologies as well as diagnostic services.

Fig: Demonstration of technologies in Farmers Field

Now he is successful Distributor of –

- 1. TATA Rallies
- 2. Adama India limited.
- 3. Safex chemicals India limited.
- 4. Ju Agricience Private limited. and others.

Fig: Some Products Sale from His Shop

His Financial Improvement

According to audit report of Mr. Mandal

Table: Financial Improvement

Sales statement as on 2017 to 2024		
Year	Rupees Per month	Rupees Per year
2017-2018	45000	540000
2018-2019	60000	720000
2019-2020	80000	960000
2020-2021	100000	1200000
2021-2022	130000	1560000
2022-2023	180000	2160000
2023-2024	480000	5760000

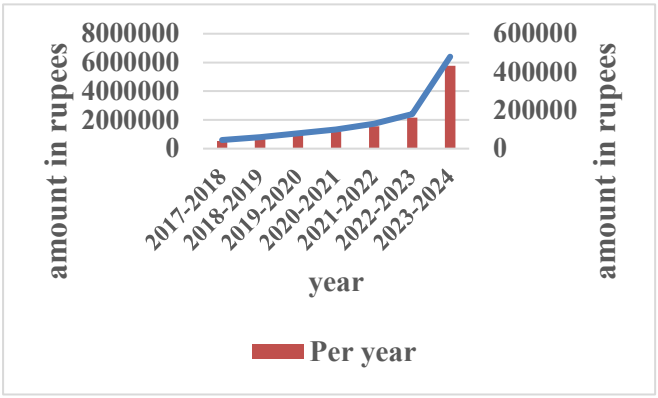


Fig: Graphical representation of financial improvement

Conclusion

- Diploma in Agricultural Extension Services equips input dealers with a combination of technical knowledge, communication skills, and practical agricultural insights, making them more effective in meeting the needs of farmers and growing their businesses.
- By offering expert advice, promoting sustainable practices, and staying ahead of industry trends, these dealers can enhance their customer service, build stronger relationships, and improve their profitability in the competitive agricultural market.

Fig: Shop of the Input Dealer

 # C. Succes Story on Pig

Name of the KVK: Rathindra Krishi Vigyan Kendra, PSB, Visva-Bharati, Sriniketan, Birbhum

Name of the livestock & Variety: Pig, Ghungroo

Farmer's name: Sri Chunku Kisku

Address: Vill - Kumorpara, PO - Kankutia, Block-Bolpur Sriniketan

Phone number:8116752927

Aadhar number:292000769537

Background information about Farmer's field:
How and why, he brought under KVK intervention:

Sri. Chunku Kisku, aged 45 years a progressive pig farmer of village Kumorpara of Birbhum District of West Bengal. Earlier his main source of income was agriculture and fishery. Later on, he realized that pigs could provide liquid money during his financial crisis. He began to rear desi pig with traditional management and rearing practices which results in small litter size, lower growth rate and less economic return. During this period, he started visiting Rathindra Krishi Vigyan Kendra, Palli Siksha Bhavana, Visva-Bharati, Birbhum and concerned scientist helped him with technical know-how about pig farming.

Institutional Involvement:

He procured five Ghungroo piglet (1 male & 4 female) from Rathindra Krishi Vigyan Kendra. He began to rear 10 improved pig breed (2 male & 8 female) also. Within 11-12 months each sow delivered 8-10 nos. of piglets in the first batch. In this way he developed 120 pigs for fattening in his farm. Scientific interventions like feed and health care management provided by Rathindra Krishi Vigyan Kendra. Besides he collected left over food from hotel and cultivated green vegetables like pumpkin, Colocasia, potato, radish etc for pig feeding. He used rice husk procured from his agricultural land for pig feeding. Routine deworming and vaccination were done by Rathindra Krishi Vigyan Kendra.

Details of application of technology with photograph:

Rathindra KVK provided five Ghungroo piglet (1 male & 4 female), concentrate feed, medicine. Piglets were supplemented with oral iron preparation to prevent piglet anaemia. Vaccination against swine fever was done in collaboration with Birbhum Animal Resource Development Department.

Success point: He is presently gaining a net income of Rs. 1,90,000.00 per annum from his piggery unit. He sold 70 nos. of pigs in a year. Pigs were sold at Rs. 13,000-15,000/- each for the improved pig breed depending upon the body weight.

Farmer's feedback: Ghungroo pig attained 80 Kg body weight at 8 months of age and each sow delivered 8-14 piglets in each birth. Income from his piggery unit motivates other farmers and rural youth from different villages of Birbhum district. There is huge demand of quality piglets both for Ghungroo and improved pig breed in this district

Performance of the technology vis-à-vis local check:

Specific technology	Yield (Kg)	Gross cost (Rs/pig)	Gross income (Rs/Pig)	Net Income	B:C Ratio
Desi pig	35 kg at 8 month age	4000	9100	8100	2.27
Ghungroo	80 Kg at 8 month age	5000	20800	18800	4.16
Improved breed	50 Kg at 8 month age	5000	15000	13000	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
01.	The Rathindra KVK acting as a Technology Demonstration Centre	Rathindra KVK	This can overcome the problems faced by developing countries, especially the LDCs, of demonstrating technology utilization potential and promoting overall technology awareness. Science and technology exhibitions, both stationary and mobile, and school and mass media programmes are being undertaken by this KVK and these exhibitions (especially through organizing programmes on PM Kisan Samman Nidhi, National Girl Child Day, World Pulse Day, International Women's' Day, International Yoga Day, ICAR Foundation Day, Poshan Abhiyan & Tree Plantation Programme, PM Kisan Samman Sammelan, World Soil Day, Kisan Samman Diwas are necessary if the cultural aspects of technology transfer and development are to be addressed.
02.	The Rathindra KVK's Role in Information development	Rathindra KVK	The role of information in technology transfer and development is crucial, and therefore capacities are needed to ensure access to the information required for adequate technological capability. There is much information in the public domain that is useful for technology transfer and development. However, the information needed should go beyond simple inventories of costs and environmental parameters and should include specific technical data that will facilitate technology selection, development, and use. Keeping these factors in mind, the Rathindra KVK is developing Technological Modules in the forms of Extension Literatures like Booklets, Leaflets, Folders, Brochures, CDs, DVDs etc. using the information generated from its past research and extension activities as well as information generated from both the ICAR and SAU or CU Systems to meeting the information gaps prevalent among the practicing farmers, farm women, rural youths and extension functionaries of the district of Birbhum. This KVK also focuses on (a) information assessment and screening, (b)maximal use of electronic systems and (c) the development of relevant databases in Agriculture and related sectors.
03.	The Rathindra KVK's Role in Technology partnerships and networking	Rathindra KVK	Technology partnerships between the Rathindra KVK and reputed Governmental Organizations (GOs) and Non-Governmental Organizations (NGOs) have been very effective in technology development and transfer and market development, provided they are two-way relationships involving a long-term commitment with the objective of sharing knowledge, enhancing technological capabilities, fostering innovation, and strengthening competitiveness. Interaction and mutual dependency, as well as risk and cost sharing among partners, are important. The Rathindra KVK and its associated Networks consist of a group of institutions or associations with the aims of enhancing the capacity to conduct research and improving training and education through interaction. The Rathindra KVK thus forms a network to improve access to new ideas, methods, information sharing and materials exchange. Both technology partnerships and networking require a certain level of technical competence among partners. There are many such partnerships and networks among this KVK, reputed GOs and reputed NGOs and these activities are growing. This recent initiative shows that these partnerships and networks can foster technological upgrading and improvement and quicker and more efficient Extension activities at a much lower cost to each of the partners thus creating a Win-Win situation for all the partners.

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
01.	Broiler Farming	Aloe Vera leaves are crushed and mixed with sugar syrup at the rate 250 gm Aloe Vera leaves and 750 gm per 1000 Birds for 5 days	For treatment of Gout and Kidney dis-order in Broiler.

Sri Arijit Hazra of Village -Karchadihi, P. O. – Batikar, C. D. Block – Illambazar, Dist. – Birbhum with Aloe Vera Leaf to be crushed in Mixer-Grinder Machine for Treatment of Gout and Kidney Disorder of his Broiler Birds

Sri Arijit Hazra of Village -Kariachati, P. O. – Batikar, C. D. Block – Illambazar, Dist. – Birbhum extracting the Juice of the Aloe Vera Leaf crushed for Treatment of Gout and Kidney Disorder of his Broiler Birds

Sri Arijit Hazra of Village –Kariachati, P. O. – Batikar, C. D. Block – Illambazar, Dist. – Birbhum making sugar syrup and mixing the juice of Aloe Vera leaves with it for Treatment of Gout and Kidney Disorder of the Broiler Birds

Sri Arijit Hazra of Village –Kariachati, P. O. – Batikar, C. D. Block – Illambazar, Dist. – Birbhum mixing the juice of Aloe Vera leaves with sugar syrup for Treatment of Gout and Kidney Disorder of the Broiler Birds

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)
01.	Production of Seasonal Vegetables without using chemical inputs	19 ha	2850 q of Seasonal Vegetables / Week in a harvesting season (Minimum 2 harvesting Seasons in a Year)	715	Yes

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
01.	Rathindra KVK family coordinates the work of all scientists for smooth functioning of the KVK as well as for the benefit of the rural people of that area. Senior Scientist and Head is liaising with other line departments for coordination and effective implementation of different programs of the KVK in the adopted village. Rathindra KVK tried to adopt a Cluster of 4 to 6 economically, culturally, and technologically backward villages situated within 10-20 Kms radius of the KVK. These villages are not too small or too large. Before adoption, a detailed survey of the village was conducted to study the socio-economic and cultural status of that village. Now-a-days Participatory Rural Appraisal (PRA) tool was used to conduct the survey in which the village people actively participated in the process. The village map was drawn with the help of different color by the villagers themselves and different prominent structures of the village such as school, temple, river, club etc. were depicted in that map. These structures will help the scientists to conduct the survey easily and smoothly. Based upon the survey the field crop maps, animal resource map and other ancillary maps were prepared for future use. After the survey work detailed plan of work was chalked out and depending upon the requirement different activities was undertaken in different areas by the Rathindra KVK scientists.	Training Need Assessment of Rathindra KVK Clientele viz. Practicing Farmers and Farm Women
02.	Rathindra KVK assesses the needs of the Rural Youth mainly through Participatory Tools like Resource map, transact map, Employment Opportunity Analysis, Job Availability Matrix, Job Choice Matrix, Un-Employment Problem Cause Diagram etc. and administering them a Structured Question Schedule regarding the needs of the Rural Youth prepared by the Rathindra KVK in consultation with other experts of ICAR and Visva-Bharati.	Training Need Assessment of Rathindra KVK Clientele viz. Rural Youths
03.	Rathindra KVK assesses the need of the Extension Functionaries mainly through questioning the respective clientele about their needs and their job needs and the needs of their sponsoring agencies. Here mainly PRA tools like problem – cause diagram, Resource map, Organizational Diagram, Job Analysis, Job Satisfaction Matrix etc. are used.	Training Need Assessment of Rathindra KVK Clientele viz. Extension Functionaries

3.11. a. Details of equipment available in Soil and Water Testing Laboratory

Sl. No.	Name of the Equipment	Qty.
01.	Mixer grinder Kenstar	2 nos.
02.	Refrigerator Whirlpool	2 nos.
03.	Stabilizer Fizi	2 nos.
03.	Shaker	1 no
04.	Oven	1 no
05.	Kelplus Elect Digestation System Model KES 08L	1 no
06.	Kelplus Elect Distillation System Elite Ex	1 no
07.	Systronics Micro controller based visible Spectrophotometer	2 nos.
08.	Systronics P-H system	2 nos.
09.	Systronics Digital Conductivity Meter	2 nos.
10.	Systronics Flame Photometer Type 128	2 nos.
11.	Hotplate with energy regulator	1 no.
12.	Glass Distillation apparatus flux	3 nos.
13.	Physical Balance Cap.250g with weight box	4 nos.
14.	Shimadzu Electronic Balance	2 nos.
15.	Kjeldal digestion unit	2 nos.
16.	Kjeldal distillation unit	2 nos.
17.	Mridhha Parikshak (Digital Mini-Lab Solar Powered)	2 nos.
Total		**34 nos.**

3.11.b. Details of samples analyzed so far:

Number of soil samples analyzed.			No. of Farmers	No. of Villages	Amount realized. (In Rs.)
Through mini soil testing kit/labs	Through soil testing laboratory	Total			
25	-	25	25	17	15,000.00

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
-	-	-	-	-	-	-

3.12. Activities of rainwater 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
05	03	76,250	1950	44

3.13. Technology week celebration

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

3.14. RAWE/ FET programme - is KVK involved? (Y/N): Yes

Details of RAWE Programme organized by Rathindra KVK, Birbhum for the Students of B.Sc. (Hons.) Agriculture Course of Universities other than Visva-Bharati in the year of 2024

List of Students for RAWE programme 2024 at Rathindra KVK, Birbhum

Sl. No.	Name of KVK	Name of University	Students allotted by ATARI to KVK	Universities sent students directly to KVK	Total students enrolled in KVK	Date of Commencement of RAWE Programme	Date of Completion of RAWE Programme
01.	Rathindra KVK, Birbhum	Usha Martin University	1	0	1	01.08.2024	23.12.2024
02.	Rathindra KVK, Birbhum	Lovely Professional University	7	0	7	02.09.2024	25.10.2024
03.	Rathindra KVK, Birbhum	Adamas University	1	0	1	02.09.2024	27.01.2025
04.	Rathindra KVK, Birbhum	Seacom Skills University (Batch – I)	41	0	41	02.09.2024	22.11.2024
05.	Rathindra KVK, Birbhum	Siksha 'O' Anusandhan (Deemed to be University)	10	0	10	02.09.2024	02.12.2024
06.	Rathindra KVK, Birbhum	The Neotia University	34	0	34	09.09.2024	08.11.2024
07.	Rathindra KVK, Birbhum	Seacom Skills University (Batch – II)	42	0	41	22.10.2024	27.01.2025
08.	Rathindra KVK, Birbhum	Medinipur City College	44	0	44	06.11.2024	06.01.2025
		Total	**180**	**0**	**179**		

No of student trained	No of days stayed
64 Students of Palli Siksha Bhavana undergoing RAWE Programme	-

ARS trainees trained	No of days stayed

1.15. List of VIP visitors (Minister/

1.16. MP/MLA/DM/VC/Zila Sabhadipati/Other Head of Organization/Foreigners)

Date	Name of the Person	Purpose of Visit
16.02.2024	Dr. Hardik Lakhani, Natural farming Expert MANAGE, Hyderabad	To grace Zonal Workshop on Natural Farming
16.02.2024	Prof. Prabhat Kumar Pal, Director of Extension Education, UBKV	To attend Zonal Workshop on Natural Farming
16.03.2024	Prof. Biswarup Saha, Head, Department of Fishery Extension, Faculty of Fishery Science, WBUAFS	As part of collaborative programme
21.03.2024	Mr. Prodip Halder, Forest ranger, Birbhum Range	To attend SAC meeting
21.03.2024	Mr. Prithwis Das, LDM, UCO Bank, Birbhum	To attend SAC meeting
21.03.2024	Mr. Anupam Pattanayak DDM, NABARD, Birbhum	To attend SAC meeting
21.03.2024	Dr. Debasish Chakraborty, Jt. DA (Adm), (P), Bolpur, Dept. of Agriculture, Govt of West Bengal	To attend SAC meeting
21.03.2024	Dr. Jagannath Adhikary, Jt. DA (S.M) (P), Bolpur, Dept. of Agriculture, Govt of West Bengal	To attend SAC meeting
21.03.2024	Mr. Kollol Mukhopadhyay, District Fishery Officer, Govt. of West Bengal	To attend SAC meeting
18.06.2024	Dr. Sukanta Majumdar, Union Minister of State, Ministry of Education and Development of North - Eastern Region, Govt. of India	To grace the live webcasting 17th release of PM KISAN Samman Nidhi
02.09.2024	Dr. Sujay Kumar Rakshit, Director, ICAR-IIAB, Ranchi	As part of collaborative programme

4. IMPACT

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

Name of the specific technology /Skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs. /Unit)	After (Rs. /Unit)
Seed production of paddy	70	85.72	Rs. 67/800 per ha	Rs. 1,03,200.00 per ha
Varietal Replacement of Mustard with Improved Mustard variety NRCHB-1 and YSH04-1	170	88.24	Rs. 23,520.00 per ha	Rs. 73,800.00 per ha
Improved method of elephant's foot yam cultivation	207	89.00	Rs. 2,36,250.00 per ha	Rs. 14,17,500.00 per ha
Preparation and use of vermin composting	290	62.07	nil	Rs. 19000.00 per 2.5 ft x2.0 ft x 3.0 ft area /year
Breed adaptation of improved Poultry breed RIR	65	75.45	Rs. 6853.00 per household for 20 birds capacity reared in Back yard condition.	Rs. 11,750.00 per household for 20 birds capacity reared in Back yard condition
Area specific mineral mixture for lactating dairy cow	110	82.32	Rs. 10,218.00 /year/cow	Rs. 14,737.00 /year/cow

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)

Give information in the same format as in case studies.

Horizontal Spread of Technologies	
Technology	**Horizontal spread**
Improved cultivation practices of Ekangi (*Kaempheria galanga*) suitable for Red and Lateritic belt of W.B as crop diversification	In the year 2015-16, three farmers of Kartikdanga started ekangi cultivation with the help of RKVK in 0.26 ha area. It increased in 4 ha area with 15 farmers in that village in the year 201-17 and further it was cultivated in 6.7 ha land in that village with 25 farmers. Beside that it is now spreaded to others 7 villages in another 30 farmers of surrounding 3 other blocks of the district. Before cultivation of Ekangi they cultivated paddy variety MTU-7029 and earned net return of Rs. 22,500.00 per ha in their rainfed mono cropped area with B:C ratio of 1.82. Now after cultivating Ekangi, they are getting B:C Ratio of 6-6.3 with net return of 8,75,000.00 per ha. In the year 2024, the entrepreneurs of Purba Midnapur district have booked the seed rhizome and technology from the farm women groups of Asansuli village of Dubrajpur block of Birbhum district
Year-round drumstick cultivation through the improved variety PKM-1	RKVK, Birbhum started demonstration of Drumstick variety, PKM-1 in the year 2014-15 for year-round drumstick production. The technology has been spreaded to different blocks of the district upto 2019-20. At present the technology is spreaded to more than 300 farmers of different district of Birbhum. After that the technology has been spreaded to different district during the year 2021-22 due to a short video at You tube regarding the technology given by RKVK, Birbhum. 3 farmers from Murshidabad, 2 farmers from East Burdwan, 1 farmer from Bankura and 1 farmer from N. 24 Parganas adopted the technology
Seed Production of Paddy	60 farmers Trained in the Rathindra KVK on various aspects of Paddy Seed Production adopted the Technology and from them the Technology was spreaded with culminating effect of adoption among another 198 numbers of farmers of whom 62 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 70 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 42 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and the rest 24 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK.
Seed Production of Pulses	120 farmers Trained in the Rathindra KVK on various aspects of Pulse Seed Production adopted the Technology and from them the Technology was spreaded with culminating effect of adoption among another 110 numbers of farmers of whom 39 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 30 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 22 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and the rest 19 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK.
Improved Method of Elephant's Foot Yam Cultivation	185 farmers Trained in the Rathindra KVK as well as 110 of them were involved in the FLD Programmes of Rathindra KVK on various aspects of improved method of Elephant's Foot Yam Cultivation adopted the Technology and from them the Technology was spreaded with culminating effect of adoption among another 118 numbers of farmers of whom 31 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 39 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 24 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and 20 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK. It was necessary to mention here that 4 numbers of farmers of the neighbouring Dumka District of the Jharkhand State also adopted the above-mentioned Technology through the horizontal spread of the Technology.
Low-Cost Fish Feed Preparation	25 farmers Trained as well as getting involved in the FLD Programmes of the Rathindra KVK on various aspects of low-cost fish feed preparation adopted the Technology and from them the Technology was spreaded with culminating effect of adoption among another 12 numbers of farmers of whom 03 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 04 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 02 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and the rest 03 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK.
Replacement of Deshi Poultry Breed by Rhode Island Red Breed (RIR)	309 farmers Trained as well as getting involved in the FLD Programmes of the Rathindra KVK on various aspects of replacement of local Deshi Poultry Breed by introduction of High Yielding Poultry Breed viz. Rhode Island Red (RIR) adopted the Technology and from them the Technology was spreaded with culminating effect of adoption among another 512 numbers of farmers of whom 302 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 109 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 23 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and the rest 78 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK.
Preparation and Use of Vermin-Composting	180 farmers Trained in the Rathindra KVK on various aspects of preparation and use of Vermin-Composting adopted the Technology and from them the Technology was spreaded with culminating effect of adoption among another 110 numbers of farmers of whom 29 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 37 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 22 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and the rest 22 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK.
Fodder Cultivation	350 farmers involved in FLD programme entitled quality fodder cultivation both leguminous and non-leguminous of Rathindra Krishi Vigyan Kendra. From them the Technology was spreaded with culminating effect of adoption among another 312 numbers of farmers of whom 302 numbers of farmers resided within 0.1 – 5 kms. Radius of the Rathindra KVK; 109 numbers of farmers resided within 5.1 – 10 kms. Radius of the Rathindra KVK; 23 farmers resided within 10.1 – 15 kms. Radius of the Rathindra KVK and the rest 78 numbers of the farmers resided within 15.1 kms and above radius of the Rathindra KVK.

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	
		Productivity / Yield		Numbers of Farmers adopted the Technology	Change in Income due to Activities of KVK	
		Before Adoption of new technology	After Adoption of new technology		Before Adoption of new technology	After Adoption of new technology
1.	Low-cost feed preparation for lactating dairy cattle	Milk yield. 58 kg/wk/cow	Milk yield. 62 kg/wk/cow	51	Rs.59080.00/year/cow	Rs.84288.00/year/cow
2.	Improved new variety of Black gram as crop diversification. Black gram variety Indira Urd Pratham	6 q/ha	10 q/ha	359	Rs.17950.00 per ha	Rs.46100.00 per ha
3.	Improved new variety of Sesame as crop diversification. Sesame variety Suprava	7.7 q/ha	11 q/ha	353	Rs.25950.00 per ha	Rs.43500.00 per ha

4.4. Details of innovations recorded by the KVK.

Thematic area	Poultry Production
Name of the Innovation	Hand-made low-cost Incubator
Details of Innovator	Amit Ghosh, Vill-Galundi (Paschim Para), P.O.-Galundi, Bolpur, Dist.-Birbhum, 731240, West Bengal
Background of Innovation	Amit Ghosh was an electrician. Rathindra Krishi Vigyan Kendra identified his technical skill and motivated him to develop homemade incubator in 2017-18. He started to build up the incubator in the same year and began poultry rearing in both backyard and deep litter system.
Technology details	Handmade Incubator (operated by both Main line Electric and Inverter current) of 100 to 2000 egg hatching capacity with around 8 cycles in a year.
Practical Utility of Innovation	i)Nowadays he is earning Rs. 22000/ per month from his poultry keeping and related venture ii) The marketing of this homemade incubator was extended by Rathindra KVK by linking with different SHGs, Agricultural Technology Management Agency (ATMA) and other poultry farmers. iii) Using the low-cost incubator continuous production of rural backyard poultry chicks e.g., Vanraja, RIR, Aseel, Kadaknath etc. to members of Women Self Help Group is possible.

Amit Ghosh, Vill-Galundi (Paschim Para), P.O.-Galundi, Bolpur, Dist.-Birbhum, 731240, West Bengal Birbhum along with his Innovative Handmade Low-Cost Incubator



4.5. Details of entrepreneurship development

Entrepreneurship development	
Name of the enterprise	Mushroom farming and development
Name &complete address of the entrepreneur	Nupur Mondal, Village - Gournagar, P.O.- Kabilpur, Dist - Birbhum Pin-73 1132, West Bengal Mobile Phone No.-9153053739
Role of the KVK with quantitative data support	Mushroom is a complete, health food and suitable for all age groups, child to aged people. Mushrooms are rich in protein, dietary fiber, vitamins, and minerals. The digestible carbohydrate profile of mushroom includes starches, disaccharides, amino sugars, sugar alcohols and sugar acids. The total carbohydrate content in mushroom varied from 26- 82% on dry weight basis in different mushrooms. Mushrooms do not have cholesterol. The crude protein content of mushrooms varied from 12-35% depending upon the species. Smt. Nupur Mondal, give an enormous effort to develop the spawn production as well as mushroom cultivation. She was well trained and now she acts as a master trainer of different mushroom cultivation related programme of Govt. and non-Govt sector. The Rathindra KVK provides complete package and practices of mushroom spawn production and cultivation
Timeline of the entrepreneurship development	Before Rathindra KVK intervention Nupur Mondal completed M. A .in Bengali from Visva-Bharati University. She lost her father at childhood. She with his mother and a younger brother tried hard to overcome the hardship. Her family has 6 bighas of land where the family produced rice, potato, seasonal vegetables etc. in traditional method but the remuneration they earned was not enough. At that time in quest of new venture to support her family Nupur Mondal started producing oyster mushroom for her household consumption in 2014 in small scale by getting spawn from local market. Later in 2021 she got training from Rathindra KVK for commercial mushroom production. Till then she is producing mushroom for commercial purpose in a bigger way and built-up marketing linkage to the adjacent areas also. Present situation: A. agricultural activities: cultivation of paddy, potato, cabbage, cauliflower etc.

	B. Nonagricultural activities: Mushroom production and development
Technical components of the enterprise	• Spawn production techniques. • Contamination management • Mushroom production techniques • Insect pest and disease management • How to prepare production house • Sanitization of production house
Status of the enterprise	**A. Income from mushroom:** Room Size: 25 feet X 10 feet Production per day- 15 kg X 30 days X 9 month = 4050 kg Rate Rs 80.00 per kg Gross income from Fresh mushroom Rs. 3, 24,000.00 Gross expenditure Rs. 1, 15,000.00 **Net Income: 2, 09,000.00** **B. Spawn Production:** Room Size: 10 feet X 10 feet Production per day- 100 Pack X 15 days X 9 month = 13500 packets Rate Rs 25.00 per pack Gross income from spawn Rs. 3, 37,500.00 Gross expenditure Rs. 1, 80,000.00 **Net Income: 1, 57,500.00** **Total gross income (A+B) = Rs.3,66,500.00 per year**
Present working condition of the enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the products etc. (Economic viability of the enterprise)	Raw material like spawn purchased from local market. Agri residue is procured from their own agricultural land. She formed Gournagar Swastik Samahar Society to execute her work and involved 50 (fifty) workers from Gournagar Swastik Samahar Society. Different products of oyster mushroom like mushroom pickles etc. is being familiar at the local adjacent areas by Gournagar Swastik Samahar Society under her leadership. She is selling fresh mushroom at local market like gournagar, patelnagar, suri, Sainthia etc.
Horizontal spread of the enterprise	50(fifty) workers of the Gournagar Swastik Samahar Society are involved in this programme. She donated 21 (twenty-one) barrels to the local tribal families (Name of the village- Sarbasia) to make mushroom production more familiar amongst them. She trained self-help group members and organized different mushroom picnics along with the villagers of adjacent villages which attracted young unemployed rural youth towards her. Awareness programmes on mushroom production technology conducted by Nupur Mondal proved to play a pivotal role for local farmers eager to delve into the world of mushroom production. She obtained “Visva-Bharati Certificate of Excellence” for her achievement

4.6 Any other initiative taken by the KVK.

Short Term Research: Funded by ATMA, Birbhum

"Prevention and control of piglet anaemia by oral supplementation of Iron in sows and their piglet"

Technology option		Haemoglobin				Packed cell volume				Total erythrocyte count				Total serum Iron			
		3rd day	14th day	28th day	42nd day	3rd day	14th day	28th day	42nd day	3rd day	14th day	28th day	42nd day	3rd day	14th day	28th day	42nd day
Control	Sow	14.5±0.42	13.2±0.33	11.7±0.31	8.5±0.34	37.12±0.68	36.1±0.61	35.3±	33	6.5±	6.1±	5.8±	5.6±	125.01±1.81	122.89±2.32	101.23±	97.39±1.11
	Piglet	10.48±0.37	10.1±0.31	9.5±0.34	7.6±0.31	31.51±0.54	30.3±0.59	26.5±0.51	20.6±0.48	5.8±0.26	5.6±0.22	5.4±0.2	4.9±0.2	97.3±1.54	85.1±1.43	83.2±	78.2±1.05
Technology option I	Sow	15.2±0.48	14.2±0.42	12.1±0.37	10.1±0.32	38.1±0.65	37.2±0.63	36.5±0.59	33.6±0.52	6.6±0.21	7.0±0.25	7.8±0.26	8.5±0.29	118.3±1.63	110.5±1.65	102.4±	99.1±1.59
	Piglet	12.0±0.41	13.2±0.38	14.2±0.34	13.6±0.37	33.1±0.58	38.3±0.54	39.6±0.58	42.4±0.61	5.7±0.28	6.0±0.2	6.2±0.24	6.4±0.25	122.3±1.75	146.5±3.11	158±	163.2±1.42
Technology option II	Sow	16.17±0.48	16.2±0.47	16.1±0.43	15.2±0.45	38.4±0.65	41.8±0.63	43.6±0.64	45.9±0.69	6.2±0.23	6.2±0.26	5.6±0.21	5.8±0.22	152.6±2.11	189.8±4.12	203.6±3.89	210.3±3.31
	Piglet	13.7±0.32	14.1±0.34	14.5±0.39	14.8±0.37	37.12±0.55	38.3±0.51	39.6±0.62	40.4±0.65	6.1±0.25	6.6±0.22	7.1±0.28	7.4±0.31	110.6±1.77	124.8±1.65	149.3±	162.3±2.47
Technology Option III	Sow	16.2±0.48	16.±0.45	15.8±0.43	15.6±0.41	40±0.58	42.4±0.61	44.5±0.63	46.3±0.69	6.4±0.31	7.1±0.33	7.4±0.31	7.9±0.36	197.5±2.11	202±3.11	210.33	208.1±5.32
	Piglet	14±0.37	14.2±0.35	13.8±0.31	13.6±0.28	39.8±0.57	43.6±	45.3±	50.9	7±0.34	7.2±0.3	7.8±0.35	8.5±0.37	201.4±3.31	211.5±3.12	239.2±3.67	250.4±3.95

Treatments:	
T1= Sows-Farmers Practice	Piglet- Farmers Practice
T2= Sows- F P + Oral Fe supplementation	Piglet- FP
T3= Sows- FP	Piglet- F P + Oral Fe supplementation
T4= Sows- F P + Oral Fe supplementation	Piglet- F P + Oral Fe supplementation

Total no. of piglets: 40 (32 female and 8 male)

	Name of the programme	Date of the programme	Budget Position	No. of participants
B.	Collaborative activity on Distribution of Paddy Seed under SCSP programme of ICAR-CRIJAF, Barrackpore	14.7.2024	All the Paddy Seeds were supplied by ICAR-CRIJAF, Barrackpore	62
C.	Collaborative activity on Distribution of Paddy Seed under TSP programme of ICAR-CRIJAF, Barrackpore	21.7.2024	All the Paddy Seeds were supplied by ICAR-CRIJAF, Barrackpore	102
D.	Collaborative activity on Distribution of Air breathing fish seedlings to SC fish farmers under SCSP programme of WBUAFS, Kolkata	16.3.2024	All the Fish Fingerlings were supplied by WBUAFS, Kolkata	100
E.	Collaborative activity on Distribution of Lime and fish feed to SC farmers under SCSP programme of ICAR-IIAB, Ranchi	9.2.2024	All the inputs were supplied by ICAR-IIAB, Ranchi	55

Results: Technology Option III was found significant with increase in haemoglobin, total erythrocyte count, PCV and serum iron content as compared with other technology option

5. LINKAGES

5.1. Functional linkage with different organizations

Name of Organization	Nature of linkage
Bidhan Chandra Krishi Vishwavidyalaya, Mohanpur, Nadia, West Bengal	This linkage is mainly on the following aspects: - - Conducting regular basis Human Resource Development Training Programme in different discipline. - Facilitate Annual Action Plan Development. - Facilitate On Farm Testing Modules. - Provide different location specific germplasm.
West Bengal University of Animal and Fishery Sciences, Belgachia, Kolkata, West Bengal	This linkage is mainly on the following aspects: - -Conducting SCSP and TSP programme along with input distribution - Conducting regular basis Human Resource Development Training Programme in different discipline. - Facilitate Annual Action Plan Development. - Facilitate On Farm Testing Modules. - Provide different location specific mineral mixture, vaccines, medicines, seeds of Improved Varieties of Green Fodder Crops.
ICAR-Indian Institute Agricultural Biotechnology, Ranchi, Jharkhand	The linkage is mainly based on the establishment of Custom Hiring Centre at Rathindra KVK, Sriniketan and input distribution to SC farmers and Farm women of Birbhum under SCSP
ICAR-CRIJAF, Barrackpore	For large scale paddy seed distribution, vegetable seed with irrigation kit distribution under SCSP programme
ICAR-CIFRI, Barrackpore	For collaborating training and demonstration on CIFRI fish feed, Scientific fish cultivation.
ICAR-National Dairy Research Institute (NDRI), Eastern Regional Station (ERS), Kalyani, West Bengal	This Linkage is basically for organizing the Collaborative Animal Health Camps, Cattle Infertility Treatment Camps, Hybrid Napier Distribution Camps and for organizing Front Line Demonstrations on improved varieties of Fodder Crops like Berseem, Oat etc.
ICAR – IIHR, Bengaluru	This Linkage is basically for organizing collaborative training programme and distribution of critical inputs like high yielding vegetable seeds developed by ICAR-IIHR
Coconut Development Board, State Centre – Kolkata, Ministry of Agriculture and Farmers Welfare, Govt. of India	This Linkage is basically for organizing demonstration and Skill Development Training Programme on "Friends of Coconut Trees (FoCT)" for unemployed Rural Youths.
Regional Fodder Station, Kalyani, Ministry of Agriculture and Farmers' Welfare, Govt. of India, Nadia, West Bengal	This Linkage is basically for organizing the Front-Line Demonstration (FLD) Programmes on various Improved Varieties of Green Fodder.
ICAR-Indian Grassland and Fodder research Institute (IGFRI), Jhansi, Uttar Pradesh	This Linkage is basically for organizing the Front-Line Demonstration (FLD) Programmes on various Improved Varieties of Green Fodder.
National Institute of Agricultural Extension Management (MANAGE), Ministry of Agriculture and Farmers' Welfare, Govt. of India, Hyderabad, Telangana	***This linkage is for providing Human Resource Development Training to KVK Scientists as well as for organizing Diploma in Agricultural Extension Services for Input Dealers (DAESI), a Long Duration Skill and Entrepreneurship Development Training Programmes for the Agricultural Input Dealers for developing them as grass-root level Extension Functionaries.***
Line Departments like Agriculture, Horticulture and Food Processing Industries, Animal Resource Development, Fisheries etc. of the Govt. of West Bengal, Birbhum,	This linkage is basically on Technological backstopping of the Extension and developmental activities of various developmental departments of the Govt. of West Bengal.
National Research Centre on Weed Control, Jabalpur, Madhya Pradesh	The linkage is now focusing on Technical Support for organizing Training and Awareness Camps for controlling weeds like *Parthenium*. The farmers of this District get immense benefit as they get exposure on *Parthenium* and other weeds through participating in "*Parthenium* Control Week Programme".
Anandadhara, Birbhum	To advice and monitor IFC clusters in the district
Agricultural Technology Management Agency (ATMA), Birbum, Suri, Birbhum, W. B	The linkage is now focusing on Orientation Farmers' training and Programme Training for Headmaster / Achiever Farmer. Various Short-Term Research on Topics related with Fishery, Agronomy etc. are also being performed utilizing these linkages Programme.
Agricultural Technology Management Agency (ATMA), Various Districts of West Bengal	The linkage is now focusing on organizing Exposure Visits of the members of the various Block Farm Information and Advisory Centre (FIAC) Teams at the Rathindra KVK for a firsthand experience on cutting edge technologies and products related to agriculture and related sectors as well as for undergoing relevant knowledge and skill development training programmes at the Rathindra KVK, Birbhum.
National Bank for Agriculture and Rural Development (NABARD), Birbhum, Suri, Birbhum, West Bengal	The linkage mainly focuses on formation of Farmers Club and Farmers' Producers' Organization (FPO) organizing Training for vulnerable areas, Organizing Technology Weeks etc. Some Farmers' Clubs and FPOs are doing excellent work, and they are benefitted from this Linkage. Besides above-mentioned Linkages, NABARD, Birbhum sponsored the Technology Week – 2015 and Technology Week - 2016, organized by the Rathindra KVK in its Campus. The NABARD has also sponsored Skill Development Trainings in the Farm Sectors in the Financial Year of 2015 – 2016.
State Agricultural Management, Extension and Training Institute (SAMETI), Narendrapur, 24 Parganas (South), West Bengal.	This linkage is mainly on the following aspects. - Conducting regular basis Human Resource Development Training Programme in different discipline for Scientists of the Rathindra KVK. -Conducting STRY programme -Conducting training for Sc farm women - All the linkage activities profoundly help the KVK clientele in updating their knowledge, skill and attitude.

Luthern World Services, Kolkata, West Bengal	This linkage gives importance as well as focuses on Training and Demonstration for stakeholders for far flung areas of Birbhum District, especially areas bordering Jharkhand State where Institutional Linkages with villagers of those areas are very weak.
Asansol Burdwan Seva Kendra, Burdwan, West Bengal	This linkage gives importance as well as focuses on joint Training and Demonstration for stakeholders for various non-adopted villages of Birbhum District as well as far flung areas of Birbhum District, especially areas where Institutional Linkages with villagers of those areas are very weak.
Reliance Foundation	For Conducting Online Training Programmes.
Invati Creations Pvt. Ltd.	Project on Trails for Bio Stimulants in different crops.
Bolpur Krishija Samabay Samity, Bolpur, Birbhum, West Bengal	This linkage is basically focuses on supply of quality agricultural inputs for various FLD and OFT Programmes of the Rathindra KVK undertakes. As a result, the clientele of the Rathindra KVK is immensely benefitted through experiencing newer and better-quality agricultural inputs.
National Seed Corporation, Kolkata, West Bengal	This linkage is basically focuses on supply of quality breeder and foundation seeds of various Crops for various FLD and OFT Programmes of the Rathindra KVK undertakes. As a result, the clientele of the Rathindra KVK is immensely benefited through experiencing newer and better-quality seeds.
West Bengal State Seed Corporation, Kolkata, West Bengal	This linkage basically focuses on: Production of foundation and Certified seeds of different crops at KVK farm. Supply of quality breeder and foundation seeds of various Crops for various FLD and OFT Programmes of the Rathindra KVK undertakes. As a result, the clientele of the Rathindra KVK is immensely benefited through experiencing newer and better-quality seeds.
Panchayati Raj Institutions (PRIs), Birbhum, West Bengal	This linkage helps Rathindra KVK to get base-line information for choosing Target Areas both on Geographical Terms as well as on Technological Terms by going through various surveys and reports generated by the PR Institutions of the Birbhum District.
Different FPOs/ FPCs of Birbhum district	-different activities to strengthen FPO/FPC in all the aspects
Other Krishi Vigyan Kendras (KVKs)	This linkage helps the farmers of various Districts to have exposure and visit to Rathindra KVK and exchange ideas and experiences with farmers of the District of Birbhum and Scientists of the Rathindra KVK.
Palli Sanghatana Vibagh, Visva-Bharati, Sriniketan, Birbhum	This linkage is mainly focusing on organizing joint Training programmes for the villagers as well as giving exposure to the clientele of the Rathindra KVK as about the field level situation
All departments of Visva-Bharati	For SAC meeting and other collaborative activities
All India Radio, Santiniketan Kendra, Birbhum, West Bengal	Broadcasting of different Rathindra KVK activities as well as live Phone –In Programmes are being organized.
Doordarshan, Santiniketan Kendra, Birbhum, West Bengal	Telecasting of different Rathindra KVK activities as well as live phone –In Programmes are being organized. As a result, a vast number of farmers, farm women and rural youth are being exposed to multiple information sources regarding multiple issues. This is necessary to mention that the viewers of these Programmes have been immensely benefited by viewing Method Demonstration on various new Technologies.

5.2. List of special programmes undertaken during 2024 by 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: No such programme

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.)
Short Term Research	To find out the best way for prevention and control of piglet anemia	November, 2023	ATMA, Birbhum	2.5 lakh
Collaborative Training activity and input Distribution	Collaborative Training activity and Distribution of Air breathing fish seedlings and other inputs to SC fish farmers under SCSP programme	16.03.2024	WBUAFS, Kolkata	All the inputs (amounting 10 lakh) are supplied directly by WBUAFS, Kolkata
Collaborative activity on Distribution of agril inputs	Collaborative activity on Distribution of Lime and fish feed to SC farmers under SCSP programme	9.02.2024	ICAR-IIAB, Ranchi	All the inputs (amounting 8.5 lakh) were supplied by ICAR-IIAB, Ranchi
Collaborative activity and Distribution of Paddy Seed	Collaborative activity on Distribution of Paddy Seed under SCSP programme	14.07.2024	ICAR-CRIJAF, Barrackpore	All the Paddy Seeds were supplied by ICAR-CRIJAF, Barrackpore
Collaborative activity on Distribution of Paddy Seed	Collaborative activity on Distribution of Paddy Seed under TSP programme	21.07.2024	ICAR-CRIJAF, Barrackpore	All the Paddy Seeds were supplied by ICAR-CRIJAF, Barrackpore

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl. No.	Name of demo Unit	Year of Est.	Area (Sq. mt)	Details of production			Amount (Rs.)		Remarks
				Variety/breed	Produce	Qty.	Cost of inputs	Gross income	
01.	Mushroom production unit	2024	15	Oyster Mushroom	Mushroom	5 kg	250	1250.00	
02.	Bee Keeping Unit	2024	63 boxes	Apis indica	Honey	18 kg	500	9,000.00	
	Total					**23**	**750**	**10,250.00**	

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	
Sesamum	28.02.2024	01.06.2024	0.39	Suprava	TL seeds	4.4	13499	46200	Pre-Kharif, 2.4 q distributed and kept 2.0 q
Green Gram	12.03.2024	25.06.2024	0.065	Samrat	TL seeds	0.5	2310	5260	Pre-Kharif, Distributed
Black Gram	12.03.2024	26.06.2024	0.26	PU-31	TL	2.1	8600	23000	Pre-Kharif, Distributed
Black Gram	15.03.2024	25.06.2024	0.065	VBN-8	FS	1.0	4200	10500	Pre-Kharif, Distributed
Elephant foot Yam	24.03.2024	20.09.2024	0.005	Bidhan Kusum	Corm (Seeds)	2.50	5100	15500	Pre-Kharif, Kept
Rice bean	25.03.2024	30.06.2024	0.39	Bidhan-1	TL	2.64	7300	18480	Pre-Kharif, Distributed
Dhaincha	23.06.2024	29.11.2024	0.06	GD-1	TL	1.0	6500	12000	Kharif, kept
Turmeric	08.07.2024	--	0.39	Saguna	TL Seeds	--	---	---	Kharif, not harvested
Ekangi	09.07.2024	---	0.39	K. galana	TL seeds	----	---	----	Kharif, not harvested
Paddy	10.07.2024	18.10.2024	0.06	MTU-1153	TL	2.5	6000	10000	Kharif, Sold & Kept remaining
Paddy	11.07.2024	25.11.2024	0.39	CR Dhan-800	CS	21.0	39000	84000	Kharif, Kept
Paddy	12.07.2024	26.11.2024	0.39	Rani Dhan	CS	20.0	39000	80000	Kharif, Kept
Paddy	13.07.2024	27.11.2024	0.08	Gobindo bhog	Rice	2.5	5000	15000	Kharif, Kept
Paddy	13.07.2024	27.11.2024	0.05	Randuni pagal	Rice	1.4	3500	10080	Kharif, Kept
Paddy	15.07.2024	28.11.2024	0.26	Local Scented	Rice	10.4	18000	38000	Kharif, Kept
Paddy	15.07.2024	28.11.2024	0.06	Dudheswar	Rice	2.5	3500	9000	Kharif, Kept
Finger Millet	16.07.2024	29.11.2024	0.13	Indravati	CS	2.7	8000	27000	Kharif, Kept
Black Gram	13.08.2024	27.11.2024	1.1	PU-31	CS	8.5	33000	89250	Kharif, Kept
Sesamum	26.08.2024	02.12.2023	0.17	Suprava	TL seeds	1.9	5880	10500	Kharif, kept
Lentil	15.11.2024	----	0.13	IPL-316	FS	--	---	---	Rabi, not harvested
Lentil	15.11.2024	----	0.26	IPL-315	CS	--	---	---	Rabi, not harvested
Chickpea	16.11.2024	-----	0.13	Purva	TL	--	---	---	Rabi, not harvested
Mustard	18.11.2024	----	0.39	PM-28	TL	--	---	---	Rabi, not harvested
Mustard	18.11.2024	-------	0.39	Sanchita	CS				
Rice bean	19.11.2024	-----	0.39	Bidhan-1	TL	--	---	---	Rabi, not harvested
Oat	02.12.2024	--------	0.13	Kent	TL	--	---	---	Rabi , not harvested
Potato	02.12.2024	------	0.13	K. Jyoti	Vegetable	--	---	---	Rabi, not harvested

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	
01.	Azolla	5000	20000	300000	
02.	Vermicompost	15000	21000	225000	
03.	Earth worm	31	10500	77500	

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 (q)	Cost of inputs	Gross income	
01.	Composite fish	Rohu, Katla, Mrigel, Bata etc	Table Fish	10.5	5000	11300	
02.	Fish	Singhi	Table Fish	1.0	8000	30000	
03.	Poultry	Aseel	Cock	6	1000	2694	
		Kadaknath	Cock	7	1160	2422	
		Kaveri	Cock	4	1040	1842	
		Aseel	Hen	6	400	576	
		Kadaknath	Hen	4	350	480	
		Kaveri	Hen	8	750	960	
		RIR	chicks	81	2430	3990	
		Vanraja	chicks	60	1800	3600	
		Kadaknath	chicks	5	80	225	
		Turkey	Adult	2	600	1100	
		Guinea fowl	Adult	8	1120	1774	

		Egg	Poultry	513	1593	3078	

6.5. Utilization of hostel facilities

Accommodation available (No. of beds): 24

Months	No. of trainees stayed	Trainee days (Days stayed)	Reason for short fall (if any)
January, 2024	-	-	Due to very low refreshment cost per trainee per day (Rs. 150 for whole day and night) the number of residential trainings has been reduced.
February, 2024	-	-	
Mach, 2024	7	7	
April, 2024	-	-	
May, 2024	-		
June, 2024	-		
July, 2024	3	15	
August, 2024	1	2	
September, 2024	-	-	
October, 2024	-		
November, 2024	-		
December, 2024	-	-	
Total	**11**	**24**	

6.6. Utilization of staff quarters: N/A

Whether staff quarters have been completed:

No. of staff quarters:

Date of completion:

Occupancy details:

Months	Q I	Q II	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
Visva-Bharati University A/c. Krishi Vigyan Kendra A/c. No. 10598447180	State Bank of India	Santiniketan, P. O. – Santiniketan, Dist. – Birbhum, Pin. – 731235, West Bengal.	10598447180

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

Item	Sanctioned by ICAR		Expenditure		Unspent balance as on 31st December, 2024
	Rabi	Kharif	Rabi	Kharif	
Sesame	-	4.80	-	3.16	1.64

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

Item	Sanctioned by ICAR		Expenditure		Unspent balance as on 31st December, 2024
	Rabi	Kharif	Rabi	Kharif	

7.4 Utilization of KVK funds during the year 2024-25 (as on 31.12.2024) (Not audited)

Sl. No.	Particulars	Sanctioned	Released	Expenditure (as on 31.12.2024)
A. Recurring Contingencies				
1	Pay & Allowances	130.00	99.41	101.97598
2	Traveling allowances	01.70	-	0.10528
3	Contingencies	20.00	14.37	17.68285
3	HRD	00.30	-	-
A	Stationary			
B	POL			
C	Meals			
D	Training material			
E	Front Line Programme			
F	On Farm Trial			
G				
H				
O	SCSP			
J	Swachhta Expenditure			
TOTAL (A)		**152.00**	**113.78**	**119.76411**
B. Non-Recurring Contingencies				
1	Equipment Furniture (Replacement of Tractor accessories)	-	-	-
2	Works (Boundary wall cum fencing)	-	-	-
3	Vehicle (Four-Wheeler Replacement)	-	-	-
4	Library	00.10	00.10	-
TOTAL (B)		00.10	00.10	-
C. REVOLVING FUND				

GRAND TOTAL (A+B+C)	**152.10**	**113.88**	**119.76411**

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	3.98	2.86	1.40	5.44
2020-21	5.44	2.57	3.05	4.96
2021-22	4.96	5.76	2.79	7.93
2022-23	7.93	8.20 (as on 31.12.2022)	3.89 (as on 31.12.2022)	12.24 + (Kind) 4.23 (as on 31.12.2022)
2023-24	9.66	7.23	9.85	7.04
2024-25	7.04	4.39 (as on 31.12.2024)	6.21 (as on 31.12.2024)	5.22 + Kinds (as on 31.12.2024)

7.6. (i)Number of SHGs formed by KVKs - 01

(ii)Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities – 03 Numbers of SHGs involved in (a) Certified Seed Production of Paddy, Pulses and Oilseeds; (b) Production of Vermi-Compost, and (c) Production of Mushroom.

(iii) Details of marketing channels created for the SHGs – Rathindra KVK is acting as Linkage between the members of SHGs and "SUFAL BANGLA", an initiative by the Dept. of Agricultural Marketing for marketing the products of SHGs through Mobile Vans and Stationery Showrooms and from this Year the Rathindra KVK is an active partner of the RKVY Sponsored Project on "Up-gradation of Market-Linkage Network for Promotion of Bengal Aromatic Rice", being executed by the Department of Agronomy, Bidhan Chandra Krishi Vishwavidyalaya, P. O. – Krishi Vishwavidyalaya, Dist. - Nadia, Pin. – 741252, West Bengal, India for promoting the production and marketing of the traditional aromatic Paddy Variety of Birbhum District viz. Radhunipagol by the members of the SHGs.

7.7. Joint activity carried out with line departments and ATMA.

Name of Activity	Number of Activity	Season	With Line Department	With ATMA	With Both
ATMA BFAC	04	Kharif and Rabi, 2024	-	With ATMA	-
ATMA GB Meeting	02	Kharif and Rabi, 2024	-	With ATMA	-
GB Meeting of PKVY	01	Rabi, 2024	With Line Department	-	-
Short Term Research	01	Rabi, 2024	-	With ATMA	-
Establishment of Integrated Farming Cluster	03	Throughout the year	With Line Department	-	-

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 Yuva Kendra (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/ SMS Portal)

Type of Message	No. of Messages	No. of Farmers covered
Crop	09	18,772
Livestock	11	13,245
Fishery	-	-
Weather	-	-
Marketing	30	10,230
Awareness	04	1,520
Training Information	11	7,683
Other	-	-
Total	**45**	**51450**

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of visitors visited the portal	**28,031**
2.	No. farmers registered in the portal	-
3.	Mobile Apps developed by KVK	-
4.	Name of the App	-
5.	Language of the App	-
6.	Meant for crop/ livestock/ fishery/ others	-
7.	No. of times downloaded	**-**

9.5. a. Observation of Swachh Bharat Programme

Date / Duration of Observation	Activities undertaken
17.09.2024	Taking the Swachhata Pledge
18.09.2024	Cleaning of Instructional Poultry Farm
19.09.2024	Awareness Generation about the Importance of Cleanliness as a Module of regular training courses
20.09.2024	Cleaning of Dragon Fruit Demonstration Unit
23.09.2024	Weeding out at Dragon Fruit Demonstration Unit
25.09.2024	Procession of Practicing Farm Women for raising the awareness on cleanliness
27.09.2024	Cleaning of Rathindra KVK Instructional Farm and Demonstration Units
30.09.2024	Awareness Generation about the Importance of Cleanliness as a Module of regular training courses
01.10.2024	Cleaning of Demonstration Unit on Poultry Farm
02.10.2024	Procession of Practicing Farm Women for raising the awareness on cleanliness

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	05	
2. Basic maintenance	09	
3. Sanitation and SBM	09	
4. Cleaning and beautification of surrounding areas	08	
5. Vermicomposting / Composting of biodegradable waste management & other activities on generate of wealth for waste	07	
6. Used water for agriculture/ horticulture application	01	
7. Swachhta Awareness at local level	11	
8. Swachhta Workshops	-	
9. Swachhta Pledge	01	
10. Display and Banner	02	
11. Foster healthy competition	-	
12. Involvement of print and electronic media	-	
13. Involving the farmers, farm women and village youth in the adopted villages (no of adopted village)	06	
14. No of Staff members involved in the activities	22	
15. No of VIP/VVIPs involved in the activities	-	
16. Any other specific activity (in details) Review of Physical files for weeding	05	18,700.00
Total	**86**	**18,700.00**

9.6. Observation of National Science Day

Date of Observation	Activities undertaken

9.7. Programme with Seema Suraksha Bal/ BSF

Title of Programme	Date	No. of participants

9.8. Agriculture Knowledge in rural schools

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 '*Pre-Rabi Campaign*' Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Lok Sabha / Rajyasabha) participated	No. of State Govt. Ministers	Participants (No.)							Coverage by Door Darshan (Yes/No)	Coverage by other channels (Number)
				MLAs Attended the programme	Chairman Zila Panchayat	Distt. Collector / DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		

9.10. Details of Swachhta Hi Suraksha programme organized.

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

9.11. Details of Mahila Kisan Divas programme organized.

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

9.12. 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
01.	Sri Partha Mal	Vill. –Daranda; P.O. –Dwaronda; Pin. - 731236, Dist. – Birbhum, Mob- 8926536411	Leading in Vermi-compost production sale and use in production of organic vegetables.
02.	Sri Bipadtaran Ghosh	Vill. –Kartikdanga; P.O. – Raipur; Pin. - 731204, Dist. – Birbhum, Mob- 8900484426	Leading in cultivation of large Ekangi (Medicinal Plant) as crop diversification and making market channel to sale it.
03.	Smt. Malati Biswas	Vill. –Kalinagar Colony; P.O. –Chowhatta, Pin. – 731201, Dist. – Birbhum, Mob- 9002176948	Leading to popularize Linseed cultivation in her area.
04.	Smt. Lalita Tudu	Vill. – Faridpur; P.O. –Bilatisultanpur; Pin. - 731236, Dist. – Birbhum, Mob- 9609646189	Leading in CFLD programme in Sesame as crop diversification in her locality.
05.	Sri Lakshi Narayan Sen	Vill. –Senkapur; P.O. – Raipur; Pin. - 731204, Dist. – Birbhum, Mob- 9933937720	Leading in CFLD programme on Field Pea in Rice - Fallow situation in his area.
06.	Smt. Lakshmi Mardi	Vill. – Faridpur; P.O. –Bilatisultanpur; Pin. - 731236, Dist. – Birbhum, Mob- 8942902797	Leading in CFLD on Summer Green Gram instead of Boro Rice in her area.
07.	Sri Subhasish Ghosh	Vill. –Digha; P.O. –Digha; Pin. – 731236, Dist. – Birbhum, Mob- 8640866516	Leading in using Drum Seeder for Paddy cultivation to promote conservation agriculture in his locality.
08.	Sri Arjun Hembram	Village: - Amkhoi, P. O. – Ushardihi, Pin. –, Dist. – Birbhum, West Bengal, Mob- 8972745351	Progressive Pig Farmer
09.	Sri. Chunku Kisku	Vill. – Kankutia; P.O. –Raipur; Pin. – 731204, Dist. – Birbhum, Mob- 8116752927	Progressive Pig Farmer
10.	Smt. Prava Biswas	Vill. – Melegar; P.O. –Illumbazar; Pin. – 731214, Dist. – Birbhum, Mob- 8016284129	Progressive Rural Back Yard Poultry Farmer.
11.	Smt. Sukodi Mardi	Vill. – Adibasi Para, Bishnubati, P. O. – Sattore; Pin. – 731236, Dist. – Birbhum, Mob. 9647677362	Leading in Self Help Group formation, Handi Crafts and Rural Crafts production
12.	Sri Tapan Ghosh	Village: Bishnubati, CD Block: Bolpur-Sriniketan, P. O. – Sattore, Pin. – 731236, Police Station: Sattore, District: Birbhum, Mob: 9614057093	Innovative Farmer of SRI Marker and Rural Back Yard Poultry based on Improved Rural Breeds and Breed Up-gradation
13.	Sri Mahadev Sarkar	Vill. – ChotoShimulia, P. O. – Panchshoya, Dist. – Birbhum, Mob. - 8670077649	Leading in cultivation of High Value Low Volume Vegetables like Capsicaum, Broccoli, French Beans, Chinese Cabbage etc.
14.	Sri Samir Kumar Kar	Vill.+P.O.+Block – Nanoor, Pin- 731301, Dist.- Birbhum, Mobile no. 9732037824	Leading in CFLD Oilseed & Pulses
15.	Sri Purna Das Bairagya	Vill. - Dhanyasara, P.O.- Pansowa, Block- Bolpur-Sriniketan, Dist.- Birbhum, Mobile no. 9064725042	Leading in Vegetable cultivation
16.	Sri Partha Mal	Vill. +P.O.- Daranda, Block - Illambazar, Dist.- Birbhum, Mobile no. 6294250273	Leading in Vermi-Compost production sale and use in production of organic vegetable
17.	Sri Sudip Mandal	Vill.+P.O.- Daranda, Block - Illambazar, Dist.- Birbhum, Mobile no. 6294250273	Leading in FPC
18.	Sri Pradip Bhattacharya	Vill.+P.O.- Daranda, Block - Illambazar, Pin- 731236, Dist.- Birbhum, Mobile no. 9382422451	Leading in Natural Farming and FPC
19.	Sri Naresh Mal	Vill.+P.O.- Daranda, Block - Illambazar, Pin- 731236, Dist.- Birbhum, Mobile no. 9064324025	Leading in CRP
20.	Smt. Sakhi Mal	Vill.+P.O.- Daranda, Block - Illambazar, Pin- 731236,	Leading in Green Farm

		Dist.- Birbhum, Mobile no. 9064725042	
21.	Sri Totan Ghosh	Vill. - Mala, P.O.- Bergram, Block- Bolpur – Sriniketan, Pin- 731236, Dist.- Birbhum, Mobile no. 8637877486	Leading in FLD Implementation
22.	Sri Sukanta Ghosh	Vill.+P.O.- Bergram, Block – Bolpur-Sriniketan, Pin- 731236, Dist.- Birbhum, Mobile no. 8145496306	Leading in FLD Implementation
23.	Sri Jiban Mondal	Vill. - Ramchandrapur, P.O.- Sahapur, Block – Dubrajpur, Dist.- Birbhum Mobile no. 9609339931/ 9732108359	Leading in FPC Management
24.	Bidyut Mondal	Vill.+P.O.- Seorakuri, Block – Md. Bazar, Dist.- Birbhum, Mobile no. 9434843080	Leading in FPC Management
25.	Mamtaj Bibi	Vill.+P.O.- Ruppur, Block- Bolpur- Sriniketan,Pin. - 731236, Dist. - Birbhum, Mobile no. 7076172730	Leading in SHGs & FPC
26.	Smt. Mamata Das Bairagya	Vill. +P.O.- Raipur, Block- Bolpur- Sriniketan, Pin- 731236, Dist.- Birbhum, Mobile no 9382774593	Leading in SHGs & FPC
27.	Namita Mal	Vill. - Kamardangal, P.O.- Kasba, Block- Bolpur-Sriniketan, Dist.- Birbhum, Mobile no. – 8250149384	Leading in FPC Management
28.	Smt. Chaitali Bauri	Vill. - Gokrul, P.O.- Dubrajpur, Block – Dubrajpur, Dist.- Birbhum Mobile no.8348186748	Leading in FLD and CFLD Implementation as CRP
29.	Asikur Rahaman	Vill. - Bhabanipur, P.O.- Lat Bhabanipur, Block - Illambazar, Pin- 731214, Dist.- Birbhum, Mobile no.- 6295629202	Leading in FLD and CFLD Implementation as CRP
30.	Smt. Riya Chowdhury	Vill.+P.O.- Bakreswar, Block – Dubrajpur, Pin.- 731123, Dist.- Birbhum Mobile no.-7908574478	Leading in FLD and CFLD Implementation as CRP
31.	Sri Utpal Roy	Vill. - Bejuri, P.O.- Tarapur, Block – Rampurhat-II, Dist.- Birbhum, Mobile no.- 8641081986	Leading in CFLD Oilseed & Model Village of Oilseed
32.	Smt. Manasi Das Bairagya	Vill. - Chella, P.O.- Daranda, Block - Illambazar, Pin- 731236, Dist.- Birbhum, Mobile no. 9064607469	Leading in SHGs & FPC
33.	Sri Santosh Ghosh	Vill. –Amgoria; P.O. –Bishnukhanda, Dist. – Birbhum, Mob. - 7076593717	Progressive fish fingerling producer.
34.	Sri Arabinda Pal	Vill. – Sundipur, P. O. – Bishnukhanda, Pin. – 731236, Dist. – Birbhum Mob: 7001024884	Innovative Farmer of Fish based Integrated Farming System (IFS)
35.	Sri Tuhin Subhra Dey	Vill. – Domdoma, P. O. – Albandha, Pin. – 731204, Dist. – Birbhum, Mob: 9735174764	Innovative Farmer of Fish based Integrated Farming System (IFS)
36.	Sri Abu Taher	Vill. – Mala, P. O. –Bergram, Dist. – Birbhum Mob. 7872454731	Innovative Farmer of Fish based Integrated Farming System (IFS)
37.	Sri Arbinda Chakraborty	Vill. –Hatikra; P.O. –Panrui, Dist. – Birbhum Mob. - 9732332656	Innovative Farmer of modern Fish Hatchery.
38.	Sri Sunil Das	Vill. –Srichandrapur; P.O.- Sattore; Pin. – 731236, Dist. – Birbhum, Mob. - 9679885667	Innovative farmer of Glass Jar Hatchery, cultivation of Amur Common Carp
39.	Sri Bapi Dhara	Vill. –Srichandrapur; P.O. –Sattore; Pin. – 731236, Dist. – Birbhum, Mob. - 9851470447	Progressive farmer of culture of Amur, Jayanti Rohu, Monosex Tilapia
40.	Sri Buddhadeb Ghosh	Vill. –Amgoria; P.O. –Bishnukhanda, Dist. – Birbhum, Mob. 9475097332	Progressive fish fingerling producer.
41.	Sabir Ali	Vill. - Kopa, P.O. – Chatra, Block- Murarai – II, Pin .- 731238, Dist.- Birbhum, Mobile no.- 9093183561	Leading in FPC management

9.13. Revenue generation (as on 31.12.2024)

Sl No.	Name of Head	Income (Rs.)	Sponsoring agency
1.	Revolving Fund from sale of		Own arrangement – KVK Demonstration Farms, Orchards, Poultry, Pond etc.
2.	1. Farm Produce like Seeds, Planting Materials, Fruits from Mango Orchard,	2,08,277.00	
3.	Honey, Demonstration Farm for Seed Production, and Demonstration Progeny Orchards of the Rathindra KVK 2. Poultry Birds of the Demonstration Poultry of the Rathindra KVK) 3. Fishes of the Pond of the Rathindra KVK)		
4.	Seminar Hall Rent	41,500.00	
5.	Rent from Trainees' Hostel	18,400.00	
6.	Monitoring of DAESI Students	1,60,000.00	
7.	Institutional Charges for organizing RAWE Programme	5,96,000.00	
	Total	**10,24,177.00**	

9.14. Resource Generation (January – December, 2024):

Sl No.	Name of the programme	Purpose of the programme	Sources of fund	Amount (Rs. Lakhs)	Infrastructure created
01.	Cluster Front Line Demonstrations (Cluster FLDs) on Kharif Oilseeds	To disseminate Improved Varieties, Agro-Technologies and supporting Package of Practices for Kharif Oilseeds Production	ICAR, New Delhi	4.80	
02.	Cluster Front Line Demonstrations (Cluster FLDs) on Rabi Oilseeds	To disseminate Improved Varieties, Agro-Technologies and supporting Package of Practices for Rabi Oilseeds Production	ICAR, New Delhi	4.80	
03.	SWACCHA Action Plan in	To generate awareness and skill of the practicing farmers, far women, rural youth and grass-root level extension functionaries in maintenance of hygienic condition and cleanliness a part and parcel of each and every aspect of daily economic and social life	ICAR, New Delhi	0.34	
04.	STRY Programme	Skill Development Training Programme for Rural Youths on "Bee keeping" and "Goat Rearing"	SAMETI, West Bengal	0.84	
05.	SCSP General	Distribution of Small Farm implements, Fishing Nets, Fish feed, Vaccine and Mineral mixture for Livestock, Drum seeder, Lime for Fishponds, Fruit plant sapling, Organization of Capacity Building Training programmes	ICAR - IIAB, Ranchi	8.51	
06.	Invati Project Trial		Invati Creation Pvt. Ltd	2.548	
07.	Zonal Workshop of Natural Farming		ICAR – New Delhi	1.855	
08.	One Day Awareness cum Capacity Building Programme of Natural Farming		ICAR – New Delhi	0.50	
09.	Landscape Dig. Diagnostic Survey (LDS) on Pulse 2024-25		ICAR – New Delhi	0.75	
10.	DAESI			32.00	
		Total		**54.043**	

9.15. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e., IMD/ICAR/Others (pl. specify)	Present status of functioning
02.07.2021	IMD	Fully functioning

9.16. 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: 2023

b) Introduction / General Information:

Indian Council of Agricultural research (ICAR)-Agricultural Technology Application Research Institute (ATARI), Kolkata and Directorate of Extension Education, Odisha University of Agriculture & Technology (DEE-OUAT), Bhubaneswar jointly convened a "Convergence Platform Working" facilitated by Cereal Systems Initiative for South Asia (CSISA) on 16th June 2023 at the DEE, OUAT, Bhubaneswar. In the meeting, it was decided that Landscape Diagnostic Survey (LDS) in pulses will be taken up in 9 KVKs (Bargarh, Dhenkanal, Cuttack, Mayurbhanj-2 and Puri of Odisha, Nadia, Murshidabad, Birbhum and North 24 Parganas of West Bengal). Specialized training programs will be conducted for these 9 selected KVKs of this Zone on LDS for Pulses in Rice-Pulse cropping system to be organized in a phased manner.

As per the decision taken on two days training programme on "Landscape Crop Assessment Survey for Pulses" organized by ICAR-ATARI, Kolkata in collaboration with CSISA on 17.6.2024 to 18.06.2024 at FACC, Bidhan Chandra Krishi Viswa Vidyalaya, Kalyani, Nadia Data Collection on the concerned LDS is going on from different selected Villages.

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
..						
Others (If any)						

11. Details of DAPST/ TSP

a. Achievements of physical output under TSP during 2023

Progress of DAPST for the year 2023 (Jan. to Dec. 2024)

Name of KVK:							
Sl. No.	***Item/Activity***		***Units***	***Targets/Achievements***		***No. of Beneficiaries***	
				Annual Targets	***Achievements***	***Annual Targets***	***Achievements***
1	**Training (Capacity building/ Skill Development etc.)**		No.				
	1.1	1-3 days	No.				
	1.2	4-10 days	No.				
	1.3	2-4 weeks	No.				
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.				
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.				
4	**Awareness camps, exposure visits etc.**		No.				
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes				
	5.2	Seeds (High Value Crops, spices etc.)	kg				
	5.3	Seeds (Root & Tuber Crops)	tonnes				
	5.4	Nursery plants	No.				
	5.5	Cutting, slips, suckers, etc	No.				
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets				
	5.7	Honeybee Colonies	No.				
	5.8	Animals-large (Cattle/ Buffalo/ camel/horse/donkey/Mithun/Yak etc.)	No.				
	5.9	Animals-small (pig, sheep, goat etc.)	No.				
	5.1	Poultry chicks / duckling etc	No.				
	5.11	Fish Spawns/ fingerlings	No.				
	5.12	Small equipment's (upto Rs 2000)	No.				
	5.13	Medium Equipment's/ machinery (upto Rs 25000)	No.				
	5.14	Large Equipment's / machinery (> Rs. 25000)	No.				
	5.15	Infrastructure / Civil Works/ Ponds etc	No.				
	5.16	Setting up plant nursery/ seed farm/ hatchery	No.				
	5.17	Land development/ Reclamation / Conservation	hectares				
	5.18	Fertilizers (NPK)/ Secondary fertilizers	tonnes				
	5.19	Micronutrients	tonnes				
	5.2	FYM/ Vermicompost	tonnes				
	5.21	Soil amendments (Gypsum, lime etc.)	tonnes				
	5.22	Plant protection chemicals	kg				
	5.23	Plant growth Promoter	kg				
	5.24	Animal Feed	tonnes				
	5.25	Animal Fodder	tonnes				

	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre				
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.				
	6.2	Artificial Insemination / Vaccination	No.				
	6.3	Veterinary Services (Hospitalization, on-site treatment, PD, surgery etc)	No.				
	6.4	Testing samples of Soil, plant, water, feed, fodder and livestock	No.				
	6.5	Promotion of agri-entrepreneurship	No.				
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutrigarden, kitchen garden, orchards etc	No.				
	6.7	Creation of market links of farm produces	No.				
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours				
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.				
7	**Distribution of Literature**		No.				
8	**Employment generation for livelihood**		(Man-months)				
9	**Fellowship, Stipends or Scholarship**		No.				
10	**Area oriented R&D Activity (project addressing the problems of agri. Sector faced by the SC/STs and benefit directly, which is measurable and identifiable**		No. of projects				
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**						
12	**Any other (specify)**						

b. Fund received under TSP in 2023-24 (Rs. In lakh):

12. Details of DAPSC/ SCSP

a. Achievements of physical output under SCSP during 2024

Progress of DAPSC for the year 2023 (Jan. to Dec. 2024)

Name of KVK:							
Sl. No.	**Item/Activity**		**Units**	**Targets/Achievements**		**No. of Beneficiaries**	
				Annual Targets	**Achievements**	**Annual Targets**	**Achievements**
1	**Training (Capacity building/ Skill Development etc.)**		No.				
	1.1	1-3 days	No.		57		498
	1.2	4-10 days	No.		10		223
	1.3	2-4 weeks	No.		01		12
	1.4	More than 4 weeks	No.				
2	**On Farm Trials (OFTs)**		No.		03		21
3	**Front Line Demonstrations (FLDs) and other demonstrations**		No.		29		1052
4	**Awareness camps, exposure visits etc.**		No.				
5	**Input Distribution**						
	5.1	Seeds (Field Crops)	Tonnes		6.018		1173
	5.2	Seeds (High Value Crops, spices etc.)	Tonnes		0.25		19
	5.3	Seeds (Root & Tuber Crops)	tonnes		0.605		61
	5.4	Nursery plants	No.		76000		1018
	5.5	Cutting, slips, suckers, etc.	No.		250		66
	5.6	Mushroom Spawns/ Bio-Fertilizers (in Packets)	Packets				
	5.7	Honeybee Colonies	No.				
	5.8	Animals-large (Cattle/ Buffalo/ camel/horse/donkey/Mithun/Yak etc.)	No.				
	5.9	Animals-small (pig, sheep, goat etc.)	No.				
	5.1	Poultry chicks / duckling etc.	No.		191		
	5.11	Fish Spawns/ fingerlings	No.		1150000		127
	5.12	Small equipment (upto Rs 2000)	No.				
	5.13	Medium Equipment's/ machinery (upto Rs 25000)	No.				
	5.14	Large Equipment's / machinery (> Rs. 25000)	No.				
	5.15	Infrastructure / Civil Works/ Ponds etc.	No.				
	5.16	Setting up plant nursery/ seed farm/ hatchery	No.				
	5.17	Land development/ Reclamation /	hectares				

		Conservation					
	5.18	Fertilizers (NPK)/ Secondary fertilizers	tonnes				
	5.19	Micronutrients	tonnes				
	5.2	FYM/ Vermicompost	tonnes		15		405
	5.21	Soil amendments (Gypsum, lime etc.)	tonnes				
	5.22	Plant protection chemicals	kg				
	5.23	Plant growth Promoter	kg				
	5.24	Animal Feed	tonnes				
	5.25	Animal Fodder	tonnes				
	5.26	Animal medicines	doses				
	5.27	Any other (Liquid PSB etc.)	Litre				
	5.28	Any other (Azolla)	Qtl.		50		271
	5.29	Any other (Bio Agent (Earthworm))	Kgs.		31		231
6	**Services/Facilitation**						
	6.1	Animal Health Camps	No.		05		275
	6.2	Artificial Insemination / Vaccination	No.				
	6.3	Veterinary Services (Hospitalization, on-site treatment, PD, surgery etc.)	No.				
	6.4	Testing samples of Soil, plant, water, feed, fodder and livestock	No.				
	6.5	Promotion of agri-entrepreneurship	No.				
	6.6	Promotion of IFS, IOFS, Natural Farming, Nutri-garden, kitchen garden, orchards etc.	No.				
	6.7	Creation of market links of farm produces	No.				
	6.8	Use of Institute Facilities (Processing etc.) (in Hours)	Hours				
	6.9	Subsidies/ Assistance (50% of Project cost, Max. Rs 10,000/beneficiary)	No.				
7	**Distribution of Literature**		No.		07		3500
8	**Employment generation for livelihood**		(Man-months)				
9	**Fellowship, Stipends or Scholarship**		No.				
10	**Area oriented R&D Activity (project addressing the problems of agri. Sector faced by the SC/STs and benefit directly, which is measurable and identifiable**		No. of projects				
11	**Monitoring & Evaluation of DAPSC/ST (upto 3%)**						

b. Fund received under SCSP in 2024-25 (Rs. In lakh): 12.00

13. 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 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	

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 activities	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.

14. Awards/Recognition received by the KVK

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

Award received by KVK Staff.

Sl. No.	Name of the Award	Year	Conferring Authority	Receiving Staff	Purpose
1	SAMAJ BANDHU AWARD In the category of Agriculture	2024	Prantik-Care the Earth, a Niti Ayog Registered Organization, Birbhum, W. B	Dr. Subrata Mandal, Senior Scientist and Head	To honour and offer recognition for the work for farmers, farm women and all the stake holders related to Agriculture and livelihood development in Birbhum District

Award received by Farmers from the KVK district.

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
01.	Certificate of Excellence Award at the Halakarshana Utsav - 2024	CHUMKU KISKU Vill: Kankutia, P.O.: Raipur, Block: Bolpur-Sriniketan	2024	Visva-Bharati University	-	To encourage the farmer for his pioneering role as Innovative Farmers for Short Term Research on Piglet Anaemia and improved Pig Farming.
02.	Certificate of Excellence Award at the Halakarshana Utsav - 2024	PURNA DAS BAIRAGYA Vill: Dhanysara, P.O.: Panchsowa, Block: Bolpur-Sriniketan	2024	Visva-Bharati University	-	To encourage the farmer for her pioneering unique role in cultivation of different new vegetables and popularization of the technology.
03.	Certificate of Excellence Award at the Halakarshana Utsav - 2024	JIBAN KUMAR MONDAL Vill: Ramchandrapur, P.O.: Sahapur, Block: Dubrajpur	2024	Visva-Bharati University	-	To encourage the farmer for his unique role in establishing and managing Farmers' Producers' Company (FPC) and Self-Help Groups (SHGs) comprised of small and marginal farming community.
04.	Certificate of Excellence Award at the Halakarshana Utsav - 2024	RIYA CHOWDHURY Vill & P.O.: Bakreswar, Block: Dubrajpur	2024	Visva-Bharati University	-	To encourage the farmer for her unique role in organising Cluster Front Line Demonstration (CFLD) Programme on Oilseed, Crop-Sesame, through Group Approach and IFC Cluster.
05.	Certificate of Excellence Award at the Halakarshana Utsav - 2024	DIPANKAR BARIK Vill: Dakshin Sultanpur, P.O.: Bilati Sultanpur, Block: Illambazar	2024	Visva-Bharati University		To encourage the farmer for his unique role in organising Cluster Front Line Demonstration (CFLD) Programme on Oilseed, Crop-Sesame, through Group Approach and IFC Cluster.

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

The Rathindra Krishi Vigyan Kendra has assessed, disseminated, popularized and handed over the under noted technologies, products, processes and services among the farming community of Birbhum District.

A. Cultivation of Kharif Oilseed (as crop diversification) Crop Sesame, Var. – CUMS-17 (Suprava), SWB-32-10-1 (Sabitri): -

Variety: - Seeds of Improved VarietyCUMS-17 (Suprava) and SWB-32-10-1 (Sabitri) @ 6 kg. / ha
Herbicide Application - Application of herbicides Pendimethalin @ 3 lit. / ha at 1 – 3 DAS.
Sulphur application
Micro-Nutrient Spray - Foliar Spray of Micro-Nutrients: - Zn EDTA @ 1 gm. / lit. of water at 25 and 45 DAS.
Average Net Return to the farmer due to the practice is Rs. 33,265.00 / ha. / Annum and 416 numbers of farmers adopted the practice in the district.

B. Cultivation of Kharif Pulses (as crop diversification) Crop Black gram, Var. – PU-01 and PU 31 -

Variety: - Seeds of Improved VarietyPU-01 and PU-31 @ 30 kg. / ha
Herbicide Application - Application of herbicides Pendimethalin @ 3 lit. / ha at 1 – 3 DAS.
Phosphate application
Micro-Nutrient Spray - Foliar Spray of Micro-Nutrients: - Boron-20 @ 2 gm. / lit. of water at 25 and 45 DAS.
Average Net Return to the farmer due to the practice is Rs. 45,800.00 / ha. / Annum with B:C ratio of 3.41 and 652 numbers of farmers adopted the practice in the district.

C. Low-Cost Commercial Vermin-Composting Unit: -

Earthworms (*Eisenia foetidae*) are being used.
Low-cost pits built-up with mainly bare bricks covered Polythene Sheets are to be used.
Organic farm and domestic wastes along with cow dung are to be used as compost culture media.
Regular optimum watering of compost media is to be ensured.

Sieving and packaging of usable Vermin-Compost is done as and when necessary.
Average Net Return to the practicing farmers due to the practice is Rs. 85,714.00 / ha. / Annum and 151 numbers of farmers adopted the practice in the district.

D. Manifold Increase in Farm Income through cultivation of *Ekangi* - a Medicinal Plant – a truly potential Crop Diversification Effort

Ekangi is also known as Aromatic Ginger, Kencur etc. Cultivation of Ekangi (*Kaempferia galanga L.*), a medicinal plant was imitated by the Rathindra KVK (RKVK) in different villages in Kharif season, in mono cropped rice area as a part of the crop diversification programme. *Ekangi* has several medicinal properties. Its rhizome powder is used as appetite enhancer and also treating for stomach-ache. The rhizome extract is largely used as limiting agent for rheumatism, repellent of mosquito and nematode against *Meloidogyne* in wheat.
Before cultivation of *Ekangi,* farmers cultivated the Kharif Rice Variety MTU-7029 and earned Net Return of Rs. 33,461.00 per ha in their rain-fed mono cropped situation with B:C ratio of 1.50.
In this year, RKVK conducted FLD on 0.26 ha area in 56 farmers field and earned net return of Rs. 678200/ha with B:C ratio of 6.22.
Social Impact – As the farm income is getting increased by manifold, the community perception to *Ekangi* cultivation is getting more encouraging. Other farmers are being more and more attracted to cultivate the *Ekangi* crop.

Environmental Impact –*Ekangi* is a totally rain-fed crop, so there is no loss of water. Total rainwater is used for production. Crops cover the fields within 3 Months, so no soil erosion through leaching is occurred due to heavy rain or heavy wind. Evaporation is lowered down from the area, so Ground Water Table is maintained properly. It is an herbal or medicinal crop. The products from it are always herbal or without Chemical. Use of the products from it helps to reduce the chemical load to human body as well as nature.

Horizontal Spread - In the year 2015-16, only three farmers of Kartikdanga Village, C. D. Block – Bolpur – Sriniketan of Birbhum District started *Ekangi* cultivation as Partner Farmers of the FLD Programmes initiated by the Rathindra KVK in 0.26 ha area. Presently it has been spread to more than 10 ha area throughout the district.

E. The taste of success with homemade incubator and poultry rearing.

Name and Contacts of farmer: Amit Ghosh, Mobile No- 9547322311, email-id: rathindrakvk@gmail.com
Address: C/O-Dinabandhu Ghosh, Vill- Galundi (Paschim Para) P.O.-Galundi, Bolpur, Dist.- Birbhum, 731240, West Bengal
Amit Ghosh was an electrician. He is having only 1 acre of land and cultivating mainly paddy, mustard, potato to maintain his own means of livelihood. The income from his activities was not satisfactory. He visited Rathindra Krishi Vigyan Kendra frequently to know other possible avenues of earning from Animal Husbandry and related sectors. RKVK identified his technical skill and motivated him to develop homemade Incubator and begin poultry rearing in both backyard and deep litter system. RKVK also helped him to create linkages with different Women Self Help Groups and Agricultural Technology Management Agency (ATMA) for installation of his homemade Incubator. Nowadays he is earning Rs. 22000/ from his poultry keeping and related venture.

Contribution of KVK towards that venture: Sri Ghosh was given a 3-day intensive skill development training programmes on scientific poultry farming and management practices and low-cost feed formulation of poultry by Rathindra KVK, Birbhum. He also attended various awareness programmes and exposure visits to public as well as private sector poultry farms for gaining firsthand experiences. Free of cost Vaccine along with vety. medicine e.g., antibiotic, anticoccidial drugs, vitamins and mineral supplements supplied by Krishi Vigyan Kendra was also part of the initial inputs. He was also supported by technical know-how to develop a homemade Incubator. The marketing of his homemade incubator was also extended by RKVK by linking with, different SHGs, Agricultural Technology Management Agency (ATMA) and other poultry farmers.

Coverage and Impact of training / hand holding on the successful venture:
The training helped him to learn scientific management of various aspects of poultry rearing. Technical support to develop homemade incubator by Krishi Vigyan Kendra made the venture a profitable one. Use of homemade incubator boosts up the fast production of chicks in rural area. Using this low-cost incubator continuous production and supply of rural backyard poultry chicks e.g., Vanraja, RIR, Aseel. Kadaknath etc. is possible.

Horizontal spread of the successful case: Amit participates in various training programme as a resource person. After installation of his low-cost homemade incubator, he trained and assisted the SHG members in successful hatching of eggs. His success attracted rural youths and farm women to start poultry rearing and hatching their own chicks.

Cultivation of Kharif Oilseed Crop Sesame, Var. - Suprava	**After harvesting of Kharif blackgram at the village**
	
Sri Partha Mal (a Rural Youth nurtured by the Rathindra KVK) watering the Vermin-Compost Materials in his Low-Cost Commercial Vermin-Composting Unit at Village: - Daronda,	**Sri Bipadtaran Ghosh with Rathindra KVK Scientist discussing harvested Rhizomes of *Ekangi***

Sri. Amit Ghosh with homemade incubator and poultry rearing

16. 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 FPC	Company Deed No.& date	Date of Company Registration Address	Proposed Activity	Commodity Identified	No. of Proposed Members
01.	Ayas Agro Farmers Producer Company Limited	**CIN NO. – U46209WB2024 PTC270060 Dated – 23.04.2024**	**Date of Company Registration: - 23.04.2024** Address: Plot No - 904, Sundipur More, Near Rampurhat, 1 Bdo Rampurhat, Birbhum, Rampurhat, Birbhum, Rampurhat - I, West Bengal, India, 731224	Trading of Inputs of Agricultural related sectors and Produce from the said sectors	Fertilizers, Manures, Bio-Fertilizers, Pesticides, Bio-Pesticides, Organic Inputs, Feeds, Fodder, Vaccine, Medicines, Produced Cereals, Pulses, Oilseeds, Vegetables, Fruits, Fishes, Dairy Product, Eggs, Animal Products.	1500

17. 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
		No such unit at RKVK					

18. 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
01.	Crop diversification through cultivation of medicinal plant Ekangi (*K. galanga)*	• In the kharif season, rainfed monocropped area instead of Rice (B:C 1.50) • Time of Planting – May-June with nor-wester • Seed Rate: 7.5 q/ha (Rhizome of 4 cm length of 2 buds) • Intercultural Operation: Weeding at 2nd and 4th week, then straw mulching. • Yield:130- 160 q/ha. 6-8 months after planting.	6,78,200.00 (B:C 6.22)	126 in 10 villages	
02.	Varietal replacement of Elephant Foot Yam using the Variety Bidhan Kusum	• Crop Diversification with Varietal replacement in kharif season replacing Rice. • Medium to up land monocropped area • Improved variety Bidhan Kusum replacing local variety Senkapur OOl	5,56,000 (B:C ratio 5.45)	220	
03	Varietal replacement of local variety of Drumstick using Baromasia Sajne Kusum	• Crop Diversification with Varietal replacement in kharif season replacing Rice. • Improved variety PKM-1 • Planting of 1-2 months old seedlings	3,22,200 (B:C ratio 5.96)	190	
04	Introduction of new Poultry Breed	• New improved Poultry breed Kadaknath • Body weight is 1.7 kg at 23rd wk. • No. of egg produced per year is 140-150	2,23,000 (Per 100 bird unit)	125	

19. Report on Digital Farming Initiatives in Agriculture/ Digital Ag. Extension Service

Phase	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I (up-to 15.03.2018)					
II (up-to 24.04.218)					
Total					

20. Information on Visit of Ministers to KVKs, if any (Please provide good quality photographs)

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)
18.06.2024	Dr. Sukanta Majumdar	Union Minister of State, Ministry of Education & Development of North - Eastern Region, Govt. of India	• Hon'ble Minister expressed his satisfaction seeing the linkage between RKVK, Birbhum and farmers particularly a greater number of female farmers • He felicitated 10 nos. of farmers and farm women for their exemplary roles in modernization and development of farming and allied sectors of the economy of Birbhum District • He advised the farmers and farm women present for giving more focus on crop diversification

Group Photo of Staff of Rathindra KVK with Dr. Sukanta Majumdar, Hon'ble Union Minister of State in the Ministry of Education and Development of North - Eastern Region, Govt. of India

Speech of Hon'ble PM Shri Narendra Modi during the release of 17th Instalment of PM Kisan Samman Nidhi

Farmers and Farm Women gathering at Rathindra KVK

Address by Dr. Sukanta Majumdar, Hon'ble Union Minister of State in the Ministry of Education and Development of North - Eastern Region, Govt. of India

A Part of the Attending Farmers and Farm Women at the Interactive webcasting of the release of the 17th. Instalment of PM-KISAN by the Honourable Prime Minister

21 a) Information on ASCI Skill Development Training Programme, if undertaken during 2023

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 2023

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	

22. 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

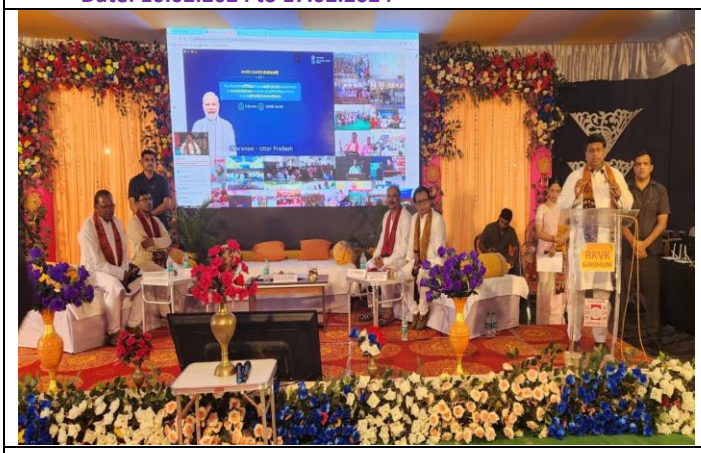
23. Any other programme organized by KVK, not covered above.

Sl. No.	Name of the programme	Date of the programme	Venue	No. of participants
01.	PM Kisan Samman Nidhi	18.06.2024	RKVK, Birbhum	620
02.	Ek Ped Maa Ke Naam (Plant4Mother)	21.08.2024	RKVK, Birbhum	56
03.	Tree Plantation	26.09.2024	RKVK, Birbhum	95
04.	Observation of Swachhata Hi Sewa	17.09.2024 to 02.10.2024	RKVK, Birbhum	305
05.	PM Kisan Samman Nidhi	05.10.2024	RKVK, Birbhum	57
06.	Observation of Vigilance Awareness Week	30.10.2024 to 05.11.2024	RKVK, Birbhum	
07.	Pradhan Mantri Kisan Urja Suraksha Evam Utthaan Mahabhiyan (PM-KUSUM) Yojana	25.11.2024	RKVK, Birbhum	51

24. Good quality action photographs (with proper caption) of overall achievements of KVK during the year

Zonal Workshop on Natural Farming

Date: 16.02.2024 to 17.02.2024 **No. of Participants: 62**



Pradhan Mantri Kisan Samman Nidhi

Date: 18.06.2024 **No. of Participants: 620**

Capacity Building Programme on Natural Farming

Date: 30.03.2024 **No. of Participants: 50**

Ek Ped Maa Ke Naam (Plant4Mother)

Date: 21.08.2024 **No. of Participants: 56**

Observation of Swachhata Hi Sewa

Date: 17.09.2024 to 02.10.2024 **No. of Participants: 305**

Tree Plantation

Date: 26.09.2024 **No. of Participants: 95**

Observation of Vigilance Awareness Week

Date: 30.10.2024 to 05.11.2024 No. of Participants:

Pradhan Mantri Kisan Samman Nidhi (18th Installment)

Date: 05.10.2024 No. of Participants: 57

PM-KUSUM Component A

Date: 25.11.2024 No. of Participants: 51

Photographs of OFT – 2024

OFT on Natural Farming in Tomato

OFT on Finger Millet

OFT on poshu chocolate (UMMB) in lactating dairy cattle

OFT on Planting Time of Coloured Cauli Flower

Photographs on FLD - 2024

FLD on Kharif Paddy Var. Ranidhan

FLD on Mustard Var: PM-28

FLD on Grafted Brinjal

FLD on Turmeric, Var. Saguna

FLD on Fodder Oat, Var. Kent

Annexure-I
Details of Training Programmes – 2024

Discipline	Clientele	Date (dd/mm/yyyy)	Title of the training programme	Duration in days	Venue (Off/On Campus)	No. of Participants									Grand Total		
						Other			SC			ST					
						M	F	T	M	F	T	M	F	T	M	F	T
Agricultural Extension	PF & PFW	25-01-2024 To 25-01-2024	Training Programme on Development of Marketing Channel for FPOs and SHGs Products	1	OFF	0	0	0	0	70	70	0	0	0	0	70	70
	PF & PFW	29-02-2024 To 29-02-2024	Development of Farmers Club as Business Facilitators (BF)	1	OFF	0	4	4	0	65	65	0	1	1	0	70	70
	PF & PFW	28-03-2024 To 28-03-2024	Concept, Formation and Functioning of Joint Liability Group	1	OFF	0	4	4	0	64	64	0	7	7	0	75	75
	PF & PFW	29-05-2024 To 29-05-2024	Training Need Assessment of the Members of Water Users Association	1	OFF	25	0	25	2	0	2	0	2	2	27	2	29
	PF & PFW	17-06-2024 To 17-06-2024	New Initiatives of Ministry of Agriculture and Farmers' Welfare, Govt. of India for Increased Capital Flow for Development and Modernization of Farming Sector	1	ONLINE	30	1	31	17	1	18	0	0	0	47	2	49
	PF & PFW	26-06-2024 To 26-06-2024	Collaborative Training Programme on Training Needs Assessment of Members of Water Users' Association (Collaboration with State Govt. and World Bank)	1	OFF	30	4	34	6	0	6	0	0	0	36	4	40
	PF & PFW	15-07-2024 To 19-07-2024	Vocational Training on Entrepreneurship Development in Agriculture and Related Sectors	4	ON	9	3	12	4	11	15	2	2	4	15	16	31
	PF & PFW	17-08-2024 To 17-08-2024	Training Programme on Direct Benefit Transfer (DBT) Schemes of Ministry of Agriculture and Farmers' Welfare, Govt. of India	1	Online	20	2	22	15	0	15	0	0	0	35	2	37
	EF	30-09-2024 To 04-10-2024	Training on Para Extension Worker	5	ON	0	2	2	0	38	38	0	5	5	0	45	45
	PF & PFW	08-11-2024 To 08-11-2024	Training Programme on Formation of Farmers' Producers' Organizations (FPOs) based on Successful and Functional Self-Help Groups (SHGs)	1	ON	3	3	6	5	59	64	0	3	3	8	65	73
	PF & PFW	17-12-2024 To 17-12-2024	Training Programme on Concept, Functioning and Use of Pradhan Mantri Fasal Bima Yojana (PMFBY)	1	OFF	2	8	10	10	55	65	0	5	5	12	68	80
	Total					**119**	**31**	**150**	**59**	**363**	**422**	**2**	**25**	**27**	**180**	**419**	**599**

Discipline	Clientele	Date (mm/dd/yyyy)	Title of the training programme	Duration in days	Venue (Off/On Campus)	No. of Participants									Grand Total		
						Other			SC			ST					
						M	F	T	M	F	T	M	F	T	M	F	T
Fishery	PF & PFW	14-01-2024 To 14-01-2024	Community Empowerment and Capacity Development of Fish Farmers	1	ON	0	0	0	25	5	30	19	11	30	44	16	60
	PF & PFW	16-03-2024 To 16-03-2024	Skill Development Training Programme on Aquaculture Practices and Fisheries Resource Management	1	ON	0	0	0	70	30	100	0	0	0	70	30	100
	Total					**0**	**0**	**0**	**95**	**35**	**130**	**19**	**11**	**30**	**114**	**46**	**160**

Discipline	Clientele	Date (dd/mm/yyyy)	Title of the training programme	Duration in days	Venue (Off/On Campus)	No. of Participants									Grand Total		
						Other			SC			ST					
						M	F	T	M	F	T	M	F	T	M	F	T
Agronomy	PF & PFW	23-01-2024 To 31-01-2024	Soil Testing and Organic Input Production	9	ON	14	6	20	1	0	1	5	0	5	20	6	26
	PF & PFW	08-02-2024 To 08-02-2024	Training Programme on Mixed Farming	1	ON	17	25	42	10	4	14	1	0	1	28	29	57
	PF & PFW	27-02-2024 To 27-02-2024	Sowing and Fertilizer Management of Summer Sesame	1	ON	17	0	17	6	0	6	0	0	0	23	0	23
	PF & PFW	28-02-2024 To 29-02-2024	Capacity Building and Awareness Programme on Importance of liming in Soil before sowing	2	ON	3	2	5	30	15	45	0	0	0	33	17	50
	PF & PFW	04-03-2024 To 05-03-2024	Capacity Building And Awareness Programme on Millet Cultivation	2	ON	2	2	4	22	20	42	2	2	4	26	24	50
	PF & PFW	11-03-2024 To 12-03-2024	Capacity Building and Awareness programme on Potentiality on Natural Farming in the District	2	ON	3	3	6	22	22	44	0	0	0	25	25	50
	PF & PFW	23-03-2024 To 23-03-2024	FLD Training programme on sowing, fertilizer management of Blackgram as Summer Pulse	1	ON	16	3	19	10	4	14	0	0	0	26	7	33
	PF & PFW	27-03-2024 To 27-03-2024	Harvesting and Grading of Potato	1	OFF	2	0	2	0	1	1	4	3	7	6	4	10
	PF & PFW	30-03-2024 To 30-03-2024	Awareness cum Capacity Building Programme on Natural Farming	1	ON	17	3	20	9	1	10	5	4	9	31	8	39
	PF & PFW	24-05-2024 To 24-05-2024	Workshop cum Training programme on Base line Survey on Cluster FLD, Kharif Sesame-2024	1	ON	9	6	15	3	2	5	1	1	2	13	9	22
	RY	28-05-2024 To 28-05-2024	Orientation Training on Different Crops and Demonstration Units of RKVK	1	ON	23	7	30	4	2	6	0	0	0	27	9	36
	PF & PFW	11-06-2024 To 11-06-2024	Training and Awareness on Effects of Climate Changes on Crops and Variety	1	OFF	0	0	0	1	6	7	19	49	68	20	55	75
	PF & PFW	14-06-2024 To 14-06-2024	Training Programme on Multiplication and Cultivation of Azolla	1	ON	9	2	11	5	2	7	2	0	2	16	4	20
	PF & PFW	19-06-2024 To 19-06-2024	Training Programme on Improved Method of Dry Seed Bed Preparation for Kharif Rice	1	ON	2	4	6	11	1	12	0	2	2	13	7	20
	PF & PFW	27-06-2024 To 27-06-2024	Training programme on Land Preparation for Direct Seeded Rice	1	ON	0	0	0	3	1	4	11	4	15	14	5	19
	PF & PFW	28-06-2024 To 30-06-2024	Training Programme on Participatory Rice Seed Production Technology	3	ON	1	1	2	1	0	1	16	23	39	18	24	42
	PF & PFW	01-07-2024 To 05-07-2024	Training Programme on Multiplication of Azolla and Dhaincha for use as Green Manuring in Kharif Rice	1	ON	6	2	8	23	16	39	10	3	13	39	21	60
	PF & PFW	06-07-2024 To 06-07-2024	Training Programme on Varietal Replacement of Paddy with Variety CR-800 and Ranidhan in place of MTU-7029	1	OFF	0	4	4	0	41	41	0	13	13	0	58	58
	PF & PFW	15-07-2024 To 15-07-2024	Training Programme on Sowing of Improved variety of Sesame instead of Kharif Rice.	1	ON	3	2	5	0	5	5	0	0	0	3	7	10
	PF & PFW	16-07-2024 To 16-07-2024	Monitoring of Paddy Seed Bed.	1	OFF	0	0	0	0	0	0	4	1	5	4	1	5
	PF & PFW	19-07-2024 To 19-07-2024	Training cum Exposure visit on Natural Farming	1	ON	0	0	0	0	0	0	14	11	25	14	11	25

PF & PFW	06-08-2024 To 06-08-2024	Online Training Programme on Fertilizer Application and Transplanting Management of Kharif Rice	1	Online	13	5	18	5	3	8	4	2	6	22	10	32
PF & PFW	09-08-2024 To 13-08-2024	Skill Development Training Programme on Vermi Compost Preparation	5	ON	2	0	2	10	27	37	0	0	0	12	27	39
PF & PFW	16-08-2024 To 16-08-2024	FLD Training on Improved Variety of Kharif Black Gram Cultivation	1	ON	4	2	6	2	3	5	1	0	1	7	5	12
PF & PFW	16-08-2024 To 16-08-2024	FLD Training on Improved Variety of Kharif Sesame Cultivation	1	OFF	3	4	7	2	5	7	0	1	1	5	10	15
PF & PFW	21-08-2024 To 21-08-2024	Training on Plantation for a Model of Agro Forestry	1	ON	22	10	32	2	4	6	9	9	18	33	23	56
PF & PFW	30-08-2024 To 30-08-2024	Training Programme of Pulse Cultivation in Kharif Season	1	OFF	5	1	6	17	1	18	0	0	0	22	2	24
EF	07-09-2024 To 07-09-2024	Training Programme on Innovation in Agriculture Practices and Application of New Technology in Farmers' Field	1	OFF	21	7	28	13	7	20	1	1	2	35	15	50
EF	10-09-2024 To 10-09-2024	Training Programme on Natural Farming: Potentiality in Birbhum District	1	OFF	5	0	5	0	1	1	1	1	2	6	2	8
PF & PFW	25-09-2024 To 25-09-2024	Training Programme on Agricultural Practices for increasing income and livelihood	1	ON	0	0	0	0	0	0	15	6	21	15	6	21
PF & PFW	03-10-2024 To 07-10-2024	Skill Training on Nursery Management and Seedling Raising for Winter Vegetables	5	ON	0	0	0	1	45	46	0	0	0	1	45	46
PF & PFW	28-10-2024 To 28-10-2024	Training Programme on utilization of Fallow lands after Kharif Rice	1	OFF	0	0	0	0	0	0	11	13	24	11	13	24
PF & PFW	29-10-2024 To 29-10-2024	Training Programme on Possible Crop Diversification in Kharif and Rabi Season in Birbhum District.	1	OFF	0	0	0	0	0	0	8	12	20	8	12	20
PFW	23-11-2024 To 26-11-2024	Skill Training on Preparation and Use of vermicompost	4	OFF	0	12	12	0	39	39	0	0	0	0	51	51
PF & PFW	24-11-2024 To 24-11-2024	Training Programme on Crop Diversification (Crop Planning of Next Season)	1	OFF	20	3	23	26	0	26	10	1	11	56	4	60
PF & PFW	14-12-2024 To 14-12-2024	Training Programme on Natural Farming in home stead Garden	1	OFF	19	8	27	21	24	45	0	0	0	40	32	72
EF	19-12-2024 To 20-12-2024	Training Programme on Integrated Farming Practices in Recent Times at RKVK	2	ON	10	4	14	6	1	7	9	1	10	25	6	31
EF	20-12-2024 To 20-12-2024	One Day Awareness-cum-Capacity Building Programme on Quality Assurance of Different Testing Laboratories	1	ON	21	1	22	7	1	8	3	0	3	31	2	33
PF & PFW	21-12-2024 To 21-12-2024	Training Programme on Natural Farming and Diversified Cropping.	1	OFF	9	21	30	12	7	19	12	18	30	33	46	79
Total					**298**	**150**	**448**	**285**	**311**	**596**	**178**	**181**	**359**	**761**	**642**	**1403**

Discipline	Clientele	Date (dd/mm/yyyy)	Title of the training programme	Duration in days	Venue (Off/On Campus)	No. of Participants									Grand Total		
						Other			SC			ST					
						M	F	T	M	F	T	M	F	T	M	F	T
Animal Science	PF & PFW	24-01-2024 To 02-02-2024	Commercial Broiler and Layer Production	8	ON	6	0	6	0	0	0	2	1	3	8	1	9
	PF & PFW	21-02-2024 To 21-02-2024	Scientific Goat Farming for Better Income Generation	1	OFF	9	24	33	0	14	14	1	1	2	10	39	49
	PF & PFW	28-02-2024 To 28-02-2024	Value addition to Livestock Product	1	OFF	0	4	4	0	35	35	0	3	3	0	42	42
	PF & PFW	27-03-2024 To 28-03-2024	Commercial Poultry Production to Enhance Income	2	ON	2	1	3	3	0	3	1	14	15	6	15	21
	PF & PFW	19-04-2024 To 19-04-2024	Piggery Farming	1	OFF	3	0	3	0	0	0	10	18	28	13	18	31
	PF & PFW	27-04-2024 To 27-04-2024	Piggery Farming	1	OFF	2	0	2	1	0	1	10	12	22	13	12	25
	PFW	22-05-2024 To 22-05-2024	Scientific goat rearing for better income generation	1	OFF	0	15	15	0	21	21	0	1	1	0	37	37
	PFW	29-05-2024 To 29-05-2024	Scientific goat rearing for better income generation	1	OFF	0	15	15	0	20	20	1	0	1	1	35	36
	PF & PFW	21-06-2024 To 21-06-2024	Fodder Cultivation and its Utilization	1	ON	8	1	9	22	4	26	0	0	0	30	5	35
	PF & PFW	22-06-2024 To 22-06-2024	Fodder Cultivation and its Utilization	1	ON	2	6	8	2	2	4	0	20	20	4	28	32
	PF & PFW	27-06-2024 To 27-06-2024	Commercial Duck Rearing both for meat and egg purpose	1	OFF	1	38	39	0	11	11	0	0	0	1	49	50
	PF & PFW	28-06-2024 To 28-06-2024	Commercial Duck Rearing both for Meat and Egg Purpose	1	OFF	0	36	36	0	14	14	0	0	0	0	50	50
	RY	22-07-2024 To 27-07-2024	STRY Programme on Scientific Goat Farming	1	ON	0	3	3	0	7	7	0	5	5	0	15	15
	PF & PFW	31-07-2024 To 31-07-2024	Scientific Goat Farming	1	ON	12	0	12	5	0	5	0	0	0	17	0	17
	PF & PFW	19-08-2024 To 23-08-2024	Scientific Goat Farming	5	ON	0	0	0	7	6	13	1	4	5	8	10	18
	RY	20-09-2024 To 25-09-2024	Commercial Broiler and Layer Farming	4	ON	0	0	0	3	24	27	0	0	0	3	24	27
	PF & PFW	24-10-2024 To 25-10-2024	Establish and Maintenance of Small-Scale Dairy Unit	2	OFF	0	1	1	7	8	15	2	12	14	9	21	30
	PF & PFW	08-11-2024 To 08-11-2024	Identification and Control of Diseases in Poultry and Their Prophylactic Measures	1	ON	12	0	12	4	5	9	3	7	10	19	12	31
	PFW	14-11-2024 To 14-11-2024	Identification and Control of Diseases in Poultry and Their Prophylactic Measures	1	ON	0	54	54	0	4	4	0	0	0	0	58	58
	PF & PFW	27-11-2024 To 27-11-2024	Identification and Control of Diseases in Dairy Animal with Their Prophylactic Measures	1	ON	0	60	60	0	0	0	0	0	0	0	60	60
	PF & PFW	02-12-2024 To 02-12-2024	Identification and Control of diseases in Dairy Animal with their Prophylactic Measures.	1	ON	2	31	33	0	0	0	0	0	0	2	31	33
	PF & PFW	04-12-2024 To	Ornamental Bird Rearing	1	ON	4	3	7	2	12	14	0	10	10	6	25	31

		04-12-2024															
	PF & PFW	09-12-2024 To 09-12-2024	Zoonotic Disease and Public Health	1	ON	2	20	22	0	0	0	1	0	1	3	20	23
	PF & PFW	21-12-2024 To 21-12-2024	Awareness-cum-Training programme on Identification and Improvement of Lower Conception rate of Bovines.	1	OFF	56	0	56	4	0	4	0	0	0	60	0	60
	Total					**121**	**312**	**433**	**60**	**187**	**247**	**32**	**108**	**140**	**213**	**607**	**820**

Discipline	**Clientele**	**Date (dd/mm/yyyy)**	**Title of the training programme**	**Duration in days**	**Venue (Off/On Campus)**	**No. of Participants**									**Grand Total**		
						Other			**SC**			**ST**					
						M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Plant Protection	PF & PFW	27-03-2024 To 28-03-2024	Capacity Building and Awareness Programme on Improved Beekeeping Practices	1	ON	11	4	15	23	4	27	5	3	8	39	11	50
	RY	22-09-2024 To 28-09-2024	Training Programme on Scientific Bee Keeping	7	ON	5	3	8	6	0	6	1	0	1	12	3	15
	PF & PFW	13-12-2024 To 13-12-2024	Hands-on Training programme on Bordo-mixture	1	OFF	21	6	27	7	3	10	2	1	3	30	10	40
	PF & PFW	13-12-2024 To 15-12-2024	Sustainable pest and disease management of rabi oilseeds and pulses Hands-on Training programme on Bordo-mixture	3	OFF	24	0	24	17	0	17	9	0	9	50	0	50
	Total					**61**	**13**	**74**	**53**	**7**	**60**	**17**	**4**	**21**	**131**	**24**	**155**

Discipline	**Clientele**	**Date (dd/mm/yyyy)**	**Title of the training programme**	**Duration in days**	**Venue (Off/On Campus)**	**No. of Participants**									**Grand Total**		
						Other			**SC**			**ST**					
						M	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**	**M**	**F**	**T**
Home Science	PF & PFW	25-01-2024 To 25-01-2024	Ex - Trainees Sammelan for discussion on value addition to farm production for more profit	1	ON	0	3	3	0	19	19	0	0	0	0	22	22
	Total					**0**	**3**	**3**	**0**	**19**	**19**	**0**	**0**	**0**	**0**	**22**	**22**

Classes Under DAESI Course

Discipline	Clientele	Date (mm/dd/yyyy)	Title of the training programme	Duration in days	Venue (Off/On Campus)	No. of Participants									Grand Total		
						Other			SC			ST					
						M	F	T	M	F	T	M	F	T	M	F	T
DAESI	EF	01-01-2024 To 01-01-2024	Cultivation practices of Potato.	1	ON	31	3	34	2	0	2	0	0	0	33	3	36
	EF	01-01-2024 To 01-01-2024	Practical-Land preparation and sowing of Potato.	1	ON	31	3	34	2	0	2	0	0	0	33	3	36
	EF	02-01-2024 To 02-01-2024	Cultivation practices of Potato.	1	ON	30	4	34	5	0	5	0	0	0	35	4	39
	EF	02-01-2024 To 02-01-2024	Practical-Land preparation and sowing of Potato.	1	ON	30	4	34	5	0	5	0	0	0	35	4	39
	EF	08-01-2024 To 08-01-2024	Importance of rice-based agroforestry for restoration of degraded red and lateritic soil.	1	ON	31	3	34	2	0	2	1	0	1	34	3	37
	EF	08-01-2024 To 08-01-2024	Importance of agroforestry in improving sustained farmers' profit.	1	ON	31	3	34	2	0	2	1	0	1	34	3	37
	EF	09-01-2024 To 09-01-2024	Importance of agroforestry in improving sustained farmers' profit.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
	EF	09-01-2024 To 09-01-2024	Importance of rice-based agroforestry for restoration of degraded red and lateritic soil.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
	EF	15-01-2024 To 15-01-2024	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	15-01-2024 To 15-01-2024	Pest- Brief introduction and classification.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	16-01-2024 To 16-01-2024	Pest- Brief introduction and classification.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
	EF	16-01-2024 To 16-01-2024	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
	EF	23-01-2024 To 23-01-2024	Integrated Pest Management.	1	ON	22	4	26	3	0	3	0	0	0	25	4	29
	EF	23-01-2024 To 23-01-2024	Importance and characteristics of various types of HYV seeds.	1	ON	23	4	27	4	0	4	0	0	0	27	4	31
	EF	24-01-2024 To 24-01-2024	Orchard management of Mango.	1	ON	26	3	29	2	0	2	1	0	1	29	3	32
	EF	24-01-2024 To 24-01-2024	Integrated Pest Management.	1	ON	26	2	28	2	0	2	1	0	1	29	2	31
	EF	29-01-2024 To 29-01-2024	Introduction to Soil Science and properties of soil.	1	ON	30	2	32	2	0	2	1	0	1	33	2	35
	EF	29-01-2024 To 29-01-2024	Practical- Soil sample collection for soil testing.	1	ON	31	2	33	2	0	2	1	0	1	34	2	36
	EF	30-01-2024 To 30-01-2024	Introduction to Soil Science and properties of soil.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
	EF	30-01-2024 To 30-01-2024	Practical- Soil sample collection for soil testing.	1	ON	28	4	32	5	0	5	0	0	0	33	4	37
	EF	05-02-2024 To 05-02-2024	Practical- Making of various natural farming products.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	05-02-2024 To	Concept of Natural farming.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40

	05-02-2024																
EF	06-02-2024 To 06-02-2024	Practical- Making of various natural farming products.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
EF	06-02-2024 To 06-02-2024	Concept of Natural farming.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
EF	12-02-2024 To 12-02-2024	Production and use of Biofertilizers.	1	ON	30	3	33	2	0	2	1	0	1	33	3	36
EF	12-02-2024 To 12-02-2024	Practical -Land preparation and sowing of Maize and Chilli as intercrop using organic products.	1	ON	30	3	33	2	0	2	0	0	0	32	3	35
EF	13-02-2024 To 13-02-2024	Practical -Land preparation and sowing of Maize and Chilli as intercrop using organic products.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
EF	13-02-2024 To 13-02-2024	Production and use of Biofertilizers.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
EF	19-02-2024 To 19-02-2024	General idea about Pest Management of important crops.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	19-02-2024 To 19-02-2024	Propagation Techniques of different horticultural crops.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	20-02-2024 To 20-02-2024	General idea about Pest Management of important crops.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
EF	20-02-2024 To 20-02-2024	Propagation Techniques of different horticultural crops.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
EF	04-03-2024 To 04-03-2024	General concepts of Agricultural Marketing.	1	ON	28	2	30	0	0	0	1	0	1	29	2	31
EF	04-03-2024 To 04-03-2024	Agricultural loan and crop insurance.	1	ON	29	3	32	0	0	0	1	0	1	30	3	33
EF	05-03-2024 To 05-03-2024	General concepts of Agricultural Marketing.	1	ON	30	4	34	5	0	5	0	0	0	35	4	39
EF	05-03-2024 To 05-03-2024	Agricultural loan and crop insurance.	1	ON	29	4	33	5	0	5	0	0	0	34	4	38
EF	11-03-2024 To 11-03-2024	Soil profile and types.	1	ON	27	3	30	2	0	2	1	0	1	30	3	33
EF	11-03-2024 To 11-03-2024	Production technology of Tomato & Brinjal.	1	ON	27	3	30	2	0	2	1	0	1	30	3	33
EF	12-03-2024 To 12-03-2024	Soil profile and types.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
EF	12-03-2024 To 12-03-2024	Production technology of Tomato & Brinjal.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
EF	18-03-2024 To 18-03-2024	Exposure visit to Garden Section, Visva-Bharati, Santiniketan.	1	OFF	30	3	33	2	0	2	1	0	1	33	3	36
EF	19-03-2024 To 19-03-2024	Exposure visit to Garden Section, Visva-Bharati, Santiniketan.	1	OFF	28	4	32	6	0	6	0	0	0	34	4	38
EF	27-03-2024 To 27-03-2024	IPM of Tomato & Brinjal.	1	ON	29	3	32	2	0	2	1	0	1	32	3	35
EF	27-03-2024 To 27-03-2024	Production technology of summer cucurbitaceous vegetables.	1	ON	29	3	32	2	0	2	1	0	1	32	3	35
EF	27-03-2024 To 27-03-2024	Production technology of summer cucurbitaceous vegetables.	1	ON	27	4	31	5	0	5	0	0	0	32	4	36
EF	28-03-2024 To	IPM of Tomato & Brinjal.	1	ON	27	4	31	5	0	5	0	0	0	32	4	36

	28-03-2024																
EF	01-04-2024 To 01-04-2024	Classification of Plant nutrients and their functions.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
EF	01-04-2024 To 01-04-2024	Calculation of fertilizer requirement according to fertilizer doses.	1	ON	32	3	35	2	0	2	2	0	2	36	3	39
EF	02-04-2024 To 02-04-2024	Classification of Plant nutrients and their functions.	1	ON	34	4	38	5	0	5	0	0	0	39	4	43
EF	02-04-2024 To 02-04-2024	Calculation of fertilizer requirement according to fertilizer doses.	1	ON	34	4	38	5	0	5	0	0	0	39	4	43
EF	08-04-2024 To 08-04-2024	Improved cultivation practices of Mango.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	08-04-2024 To 08-04-2024	Scientific cultivation of Mustard.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
EF	09-04-2024 To 09-04-2024	Improved cultivation practices of Mango.	1	ON	22	4	26	6	0	6	0	0	0	28	4	32
EF	09-04-2024 To 09-04-2024	Scientific cultivation of Mustard.	1	ON	22	4	26	6	0	6	0	0	0	28	4	32
EF	15-04-2024 To 15-04-2024	Exposure visits to India Meteorological Department, Sriniketan, Birbhum	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
EF	16-04-2024 To 16-04-2024	Exposure visits to India Meteorological Department, Sriniketan, Birbhum	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
EF	22-04-2024 To 22-04-2024	Production technology of Kharif Rice.	1	ON	30	3	33	1	0	1	1	0	1	32	3	35
EF	22-04-2024 To 22-04-2024	Pests of solanaceous vegetables and their management.	1	ON	30	3	33	1	0	1	1	0	1	32	3	35
EF	23-04-2024 To 23-04-2024	Production technology of Kharif Rice.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
EF	23-04-2024 To 23-04-2024	Pests of solanaceous vegetables and their management.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
EF	29-04-2024 To 29-04-2024	Idea of different plant protection techniques.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	20-05-2024 To 20-05-2024	Basic principles of irrigation and quality of irrigation water.	1	ON	30	3	33	2	0	2	1	0	1	33	3	36
EF	20-05-2024 To 20-05-2024	General idea about weed and its classification.	1	ON	30	3	33	2	0	2	1	0	1	33	3	36
EF	21-05-2024 To 21-05-2024	General idea about weed and its classification.	1	ON	29	4	33	5	0	5	0	0	0	34	4	38
EF	10-06-2024 To 10-06-2024	Techniques of Millet cultivation.	1	ON	31	3	34	1	0	1	1	0	1	33	3	36
EF	10-06-2024 To 10-06-2024	Production technology of summer vegetables.	1	ON	31	3	34	1	0	1	1	0	1	33	3	36
EF	11-06-2024 To 11-06-2024	Production technology of summer vegetables.	1	ON	26	4	30	6	0	6	0	0	0	32	4	36
EF	11-06-2024 To 11-06-2024	Techniques of Millet cultivation.	1	ON	26	4	30	6	0	6	0	0	0	32	4	36
EF	24-06-2024 To 24-06-2024	Problematic soils and their management.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40

	EF	24-06-2024 To 24-06-2024	Introduction to Agro meteorology.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	25-06-2024 To 25-06-2024	Introduction to Agro meteorology.	1	ON	24	4	28	6	0	6	0	0	0	30	4	34
	EF	25-06-2024 To 25-06-2024	Problematic soils and their management.	1	ON	25	4	29	6	0	6	0	0	0	31	4	35
	EF	01-07-2024 To 01-07-2024	Different instruments and equipment used in Soil Testing Laboratory & preparation of soil health card.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	01-07-2024 To 01-07-2024	Different ongoing schemes of agriculture for farmers.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	02-07-2024 To 02-07-2024	Different instruments and equipment used in Soil Testing Laboratory & preparation of soil health card.	1	ON	23	4	27	6	0	6	0	0	0	29	4	33
	EF	02-07-2024 To 02-07-2024	Different ongoing schemes of agriculture for farmers.	1	ON	23	4	27	6	0	6	0	0	0	29	4	33
	EF	08-07-2024 To 08-07-2024	Agrometeorological situation and crop production.	1	ON	33	3	36	1	0	1	1	0	1	35	3	38
	EF	08-07-2024 To 08-07-2024	Disease management of Paddy.	1	ON	32	3	35	1	0	1	1	0	1	34	3	37
	EF	09-07-2024 To 09-07-2024	Agrometeorological situation and crop production.	1	ON	29	2	31	5	0	5	0	0	0	34	2	36
	EF	09-07-2024 To 09-07-2024	Disease management of Paddy.	1	ON	28	2	30	5	0	5	0	0	0	33	2	35
	EF	15-07-2024 To 15-07-2024	IPM of Kharif rice.	1	ON	30	3	33	2	0	2	1	0	1	33	3	36
	EF	15-07-2024 To 15-07-2024	Azolla Multiplication.	1	ON	30	3	33	2	0	2	1	0	1	33	3	36
	EF	16-07-2024 To 16-07-2024	Azolla Multiplication.	1	ON	29	4	33	4	0	4	0	0	0	33	4	37
	EF	16-07-2024 To 16-07-2024	IPM of Kharif rice.	1	ON	29	4	33	4	0	4	0	0	0	33	4	37
	EF	22-07-2024 To 22-07-2024	Disease of different crops, their spreading behaviour and management practices.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	22-07-2024 To 22-07-2024	Problems of weed and weed management.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
	EF	23-07-2024 To 23-07-2024	Disease of different crops, their spreading behaviour and management practices.	1	ON	26	4	30	6	0	6	0	0	0	32	4	36
	EF	23-07-2024 To 23-07-2024	Problems of weed and weed management.	1	ON	26	4	30	6	0	6	0	0	0	32	4	36
	EF	31-07-2024 To 31-07-2024	Exposure Visit to Agriculture Farm, Rathindra Krishi Vigyan Kendra, PSB, VB	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	01-08-2024 To 01-08-2024	Visit to Agriculture Farm of Rathindra KVK, PSB, Visva-Bharati, Sriniketan	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
	EF	05-08-2024 To 05-08-2024	Weed problem in rice and management.	1	ON	31	3	34	1	0	1	1	0	1	33	3	36
	EF	05-08-2024 To 05-08-2024	Discussion of IPM model of rice.	1	ON	29	3	32	1	0	1	1	0	1	31	3	34

	EF	06-08-2024 To 06-08-2024	Weed problem in rice and management.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
	EF	06-08-2024 To 06-08-2024	Discussion of IPM model of rice.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
	EF	12-08-2024 To 12-08-2024	Weed management in kharif crops.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
	EF	12-08-2024 To 12-08-2024	Cultivation of kharif vegetables.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
	EF	13-08-2024 To 13-08-2024	Weed management in kharif crops.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
	EF	13-08-2024 To 13-08-2024	Cultivation of kharif vegetables.	1	ON	27	4	31	5	0	5	0	0	0	32	4	36
	EF	19-08-2024 To 19-08-2024	Practical- Different propagation techniques of different horticultural crops.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
	EF	19-08-2024 To 19-08-2024	Production technology of kharif maize.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
	EF	20-08-2024 To 20-08-2024	Production technology of kharif maize.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
	EF	20-08-2024 To 20-08-2024	Practical- Different propagation techniques of different horticultural crops.	1	ON	28	4	32	6	0	6	0	0	0	34	4	38
	EF	27-08-2024 To 27-08-2024	Management of Nematode in rice.	1	ON	26	4	30	6	0	6	0	0	0	32	4	36
	EF	27-08-2024 To 27-08-2024	Methods of Irrigation.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
	EF	28-08-2024 To 28-08-2024	Management of Nematode in rice.	1	ON	32	3	35	1	0	1	1	0	1	34	3	37
	EF	28-08-2024 To 28-08-2024	Methods of Irrigation.	1	ON	31	3	34	1	0	1	1	0	1	33	3	36
	EF	02-09-2024 To 02-09-2024	A brief idea about hydroponics and its application.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	02-09-2024 To 02-09-2024	Nutrient deficiency symptoms and their management.	1	ON	32	3	35	2	0	2	1	0	1	35	3	38
	EF	03-09-2024 To 03-09-2024	Nutrient deficiency symptoms and their management.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
	EF	03-09-2024 To 03-09-2024	A brief idea about hydroponics and its application.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
	EF	09-09-2024 To 09-09-2024	Production Technology of Wheat	1	ON	31	3	34	2	0	2	1	0	1	34	3	37
	EF	09-09-2024 To 09-09-2024	Production technology of Litchi	1	ON	31	3	34	2	0	2	1	0	1	34	3	37
	EF	10-09-2024 To 10-09-2024	Production technology of Litchi and Guava.	1	ON	29	4	33	4	0	4	0	0	0	33	4	37
	EF	10-09-2024 To 10-09-2024	Production Technology of Wheat	1	ON	29	4	33	4	0	4	0	0	0	33	4	37

EF	23-09-2024 To 23-09-2024	IPM of Kharif Maize.	1	ON	31	3	34	2	0	2	1	0	1	34	3	37
EF	23-09-2024 To 23-09-2024	Production Technology of Sugarcane.	1	ON	31	3	34	2	0	2	1	0	1	34	3	37
EF	24-09-2024 To 24-09-2024	IPM of Kharif Maize.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
EF	24-09-2024 To 24-09-2024	Production Technology of Sugarcane.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
EF	30-09-2024 To 30-09-2024	Production Technology of citrus and papaya.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	30-09-2024 To 30-09-2024	IPM of Wheat.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	01-10-2024 To 01-10-2024	IPM of Wheat.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
EF	01-10-2024 To 01-10-2024	Production Technology of citrus and papaya.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
EF	07-10-2024 To 07-10-2024	IPM of Sugarcane.	1	ON	32	3	35	2	0	2	0	0	0	34	3	37
EF	07-10-2024 To 07-10-2024	Practical-Identification of Varieties, Weeds and Disease-Pest in the Paddy field.	1	ON	32	3	35	2	0	2	0	0	0	34	3	37
EF	08-10-2024 To 08-10-2024	IPM of Sugarcane.	1	ON	25	2	27	2	0	2	0	0	0	27	2	29
EF	08-10-2024 To 08-10-2024	Practical-Identification of Varieties, Weeds and Disease-Pest in the Paddy field.	1	ON	25	2	27	2	0	2	0	0	0	27	2	29
EF	21-10-2024 To 21-10-2024	IPM of Cole crops.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	21-10-2024 To 21-10-2025	Production Technology of Cole crops.	1	ON	33	3	36	2	0	2	1	0	1	36	3	39
EF	22-10-2024 To 22-10-2024	Production Technology of Cole crops.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
EF	22-10-2024 To 22-10-2024	IPM of Cole crops.	1	ON	27	4	31	6	0	6	0	0	0	33	4	37
EF	23-10-2024 To 23-10-2024	Visit to Sriniketan Sericulture Composite Unit, Jambuni, Bolpur	1	OFF	33	3	36	2	0	2	1	0	1	36	3	39
EF	24-10-2024 To 24-10-2024	Visit to Sriniketan Sericulture Composite Unit, Jambuni, Bolpur	1	OFF	27	4	31	6	0	6	0	0	0	33	4	37
EF	28-10-2024 To 28-10-2024	Pest management of oilseed and pulses.	1	ON	29	3	32	2	0	2	1	0	1	32	3	35
EF	28-10-2024 To 28-10-2024	Weed Management of oilseeds, pulses and vegetables in rabi season.	1	ON	29	3	32	2	0	2	1	0	1	32	3	35
EF	29-10-2024 To 29-10-2024	Pest management of oilseed and pulses.	1	ON	27	4	31	5	0	5	0	0	0	32	4	36
EF	29-10-2024 To 29-10-2024	Weed Management of oilseeds, pulses and vegetables in rabi season.	1	ON	27	4	31	5	0	5	0	0	0	32	4	36
EF	04-11-2024 To 04-11-2024	Checking of all records and suggestion.	1	ON	25	2	27	1	0	1	1	0	1	27	2	29
EF	04-11-2024 To 04-11-2024	Production technology of Pulses.	1	ON	25	2	27	1	0	1	1	0	1	27	2	29

	EF	05-11-2024 To 05-11-2024	Checking of all records and suggestion.	1	ON	27	3	30	5	0	5	0	0	0	32	3	35
	EF	05-11-2024 To 05-11-2024	Production technology of Pulses.	1	ON	27	3	30	5	0	5	0	0	0	32	3	35
	EF	06-11-2024 To 06-11-2024	Exposure Visit to Sub-division Adaptive Research Farm, Bolpur, Birbhum	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	07-11-2024 To 07-11-2024	Exposure Visit to Sub-division Adaptive Research Farm, Bolpur, Birbhum	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
	EF	11-11-2024 To 11-11-2024	Production technology of Oilseeds	1	ON	34	3	37	2	0	2	0	0	0	36	3	39
	EF	11-11-2024 To 11-11-2024	Demonstration of spotting of different items for final examination.	1	ON	28	3	31	2	0	2	0	0	0	30	3	33
	EF	12-11-2024 To 12-11-2024	Demonstration of spotting of different items for final examination.	1	ON	25	4	29	4	0	4	0	0	0	29	4	33
	EF	12-11-2024 To 12-11-2024	Production technology of Oilseeds	1	ON	25	4	29	4	0	4	0	0	0	29	4	33
	EF	18-11-2024 To 18-11-2024	4th quiz examination, evaluation and discussion	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	18-11-2024 To 18-11-2024	Nursery management of Rabi vegetables.	1	ON	34	3	37	2	0	2	0	0	0	36	3	39
	EF	19-11-2024 To 19-11-2024	Nursery management of Rabi vegetables.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
	EF	19-11-2024 To 19-11-2024	4th quiz examination, evaluation and discussion	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
	EF	20-11-2024 To 20-11-2024	Exposure Visit to School of Agriculture, Seacom Skills University, Kendradangal, Birbhum.	1	OFF	33	3	36	2	0	2	1	0	1	36	3	39
	EF	20-11-2024 To 20-11-2024	Exposure Visit to School of Agriculture, Seacom Skills University, Kendradangal, Birbhum.	1	OFF	30	4	34	6	0	6	0	0	0	36	4	40
	EF	20-11-2024 To 20-11-2024	Discussion of course module and different records to be maintained.	1	ON	36	1	37	1	1	2	0	0	0	37	2	39
	EF	20-11-2024 To 20-11-2024	Orientation and introductory session.	1	ON	36	1	37	1	1	2	0	0	0	37	2	39
	EF	21-11-2024 To 21-11-2024	Orientation and introductory session.	1	ON	35	1	36	1	0	1	1	0	1	37	1	38
	EF	21-11-2024 To 21-11-2024	Exposure Visit to RRSS-BCKV, Sekhampur, Birbhum.	1	OFF	33	3	36	2	0	2	1	0	1	36	3	39
	EF	21-11-2024 To 21-11-2024	Discussion of course module and different records to be maintained.	1	ON	35	1	36	1	0	1	1	0	1	37	1	38
	EF	21-11-2024 To 21-11-2024	Exposure Visit to RRSS-BCKV, Sekhampur, Birbhum.	1	OFF	29	4	33	6	0	6	0	0	0	35	4	39
	EF	22-11-2024 To 22-11-2024	Pest Management of Rabi Vegetables.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
	EF	22-11-2024 To 22-11-2024	Revision of the Syllabus.	1	ON	30	4	34	6	0	6	0	0	0	36	4	40
	EF	25-11-2024 To 25-11-2024	Awareness workshop for farmers on PM-KUSUM	1	ON	27	3	30	2	0	2	1	0	1	30	3	33
	EF	25-11-2024 To 25-11-2024	Disease management of Rabi crops.	1	ON	27	3	30	2	0	2	1	0	1	30	3	33

	EF	26-11-2024 To 26-11-2024	Disease management of Rabi crops.	1	ON	24	4	28	6	0	6	0	0	0	30	4	34
	EF	26-11-2024 To 26-11-2024	Pest Management of rabi vegetables (part 2)	1	ON	25	4	29	6	0	6	0	0	0	31	4	35
	EF	27-11-2024 To 27-11-2024	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	1	ON	36	1	37	1	1	2	0	0	0	37	2	39
	EF	27-11-2024 To 27-11-2024	Pest- Brief introduction and classification.	1	ON	36	1	37	1	1	2	0	0	0	37	2	39
	EF	28-11-2024 To 28-11-2024	Exposure visits to Joydurga Fish Seed Farm, Hatserandi, Birbhum	1	OFF	34	3	37	2	0	2	1	0	1	37	3	40
	EF	28-11-2024 To 28-11-2024	Exposure visits to Joydurga Fish Seed Farm, Hatserandi, Birbhum	1	OFF	28	4	32	6	0	6	0	0	0	34	4	38
	EF	28-11-2024 To 28-11-2024	Pest- Brief introduction and classification.	1	ON	32	1	33	1	0	1	1	0	1	34	1	35
	EF	28-11-2024 To 28-11-2024	Evaluation of Input Dealers based on pre DAESI course knowledge about agriculture.	1	ON	32	1	33	1	0	1	1	0	1	34	1	35
	EF	29-11-2024 To 29-11-2024	Revision and recapitulation of syllabus.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	29-11-2024 To 29-11-2024	Suggestions for final exam and records submission.	1	ON	34	3	37	2	0	2	1	0	1	37	3	40
	EF	30-11-2024 To 30-11-2024	Suggestions for final exam and records submission.	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
	EF	30-11-2024 To 30-11-2024	Pest Management of oilseed and pulses (part 2)	1	ON	29	4	33	6	0	6	0	0	0	35	4	39
	EF	02-12-2024 To 02-12-2024	Introduction to tillage.	1	ON	34	1	35	1	1	2	0	0	0	35	2	37
	EF	02-12-2024 To 02-12-2024	Introduction of different divisions of agriculture.	1	ON	34	1	35	1	1	2	0	0	0	35	2	37
	EF	03-12-2024 To 03-12-2024	Introduction to tillage.	1	ON	35	1	36	1	0	1	1	0	1	37	1	38
	EF	03-12-2024 To 03-12-2024	Introduction of different divisions of agriculture.	1	ON	35	1	36	1	0	1	1	0	1	37	1	38
	EF	09-12-2024 To 09-12-2024	Introduction to soil science.	1	ON	35	1	36	2	1	3	0	0	0	37	2	39
	EF	09-12-2024 To 09-12-2024	Different types of mouthparts and life cycle of insect.	1	ON	35	1	36	2	1	3	0	0	0	37	2	39
	EF	10-12-2024 To 10-12-2024	Introduction to soil science.	1	ON	34	1	35	1	0	1	1	0	1	36	1	37
	EF	10-12-2024 To 10-12-2024	Different types of mouthparts and life cycle of insect.	1	ON	34	1	35	1	0	1	1	0	1	36	1	37
	EF	16-12-2024 To 16-12-2024	Different types of Nutrients and their functions	1	ON	29	1	30	2	1	3	0	0	0	31	2	33
	EF	16-12-2024 To 16-12-2024	Practical- Soil sample collection for soil testing.	1	ON	28	1	29	2	1	3	0	0	0	30	2	32
	EF	17-12-2024 To 17-12-2024	Practical- Soil sample collection for soil testing.	1	ON	33	1	34	1	0	1	1	0	1	35	1	36
	EF	17-12-2024 To 17-12-2024	Different types of Nutrients and their functions	1	ON	33	1	34	1	0	1	1	0	1	35	1	36

	EF	30-12-2024 To 30-12-2024	Calculation of fertilizer requirements according to fertilizer doses.	1	ON	33	1	34	2	1	3	0	0	0	35	2	37
	EF	30-12-2024 To 30-12-2024	Effect of different components of atmosphere and global warming on agriculture.	1	ON	33	1	34	2	1	3	0	0	0	35	2	37
	EF	31-12-2024 To 31-12-2024	Effect of different components of atmosphere and global warming on agriculture.	1	ON	35	1	36	1	0	1	1	0	1	37	1	38
	EF	31-12-2024 To 31-12-2024	Calculation of fertilizer requirements according to fertilizer doses.	1	ON	35	1	36	1	0	1	1	0	1	37	1	38
	Total					**5702**	**589**	**6291**	**636**	**12**	**648**	**88**	**0**	**88**	**6426**	**601**	**7027**