ANNUAL REPORT

(1st January to 31st December 2022)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, Gumla Vikas Bharti Bishunpur Po – Bishnpur Dist – Gumla PIN – 835 231 State - Jharkhand	06523-278535	06523-278400	kvk.gumla@gmail.com Website -gumla.kvk4.in

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

Address	Telephone		E mail
	Office	FAX	
Vikas Bharti Bishunpur Po – Bishnpur Dist – Gumla PIN – 835 231 State - Jharkhand	06523-278306	06523-278400	vikasbharti1983@hotmail.com Website: www.vikasbharti.org

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Sanjay Kumar Krishi Vigyan Kendra, Gumla Vikas Bharti Bishunpur Po – Bishnpur Dist – Gumla PIN – 835 231 State - Jharkhand	06523-278536	9430699847 7366082870	drsanjaykumar.kvk@gmail.com

1.4. Year of sanction of KVK: F. No. 6-1/1998-AE-1 dated May 20, 2004

1.5. Staff Position (as on 31st Dec 2022)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Scale and Level	Date of joining	Permanent /Temporary	Category (SC/ST/ OBC/ Others)
1	Senior Scientist & Head	Dr. Sanjay Kumar	Senior Scientist & Head	Agronomy	187200 Level-13A	09/02/06	Permanent	Others
2	Subject Matter Specialist	Mr. Sunil Kumar	Subject Matter Specialist	Horticulture	84900 Level- 10	03/06/06	Permanent	OBC
3	Subject Matter Specialist	Mr. Neeraj Kumar Vaishya	Subject Matter Specialist	Soil Science	84900 Level- 10	05/06/06	Permanent	OBC
4	Subject Matter Specialist	Mrs. Nisha Tiwari	Subject Matter Specialist	Home Science	69000 Level- 10	24/04/09	Permanent	Others
5	Subject Matter Specialist	Atal Bihari Tiwari	Subject Matter Specialist	Plant Protection	67000 Level- 10	01/11/13	Permanent	Others
6	Subject Matter Specialist	Er. Eno Rai	Subject Matter Specialist	Ag. Eng	67000 Level- 10	01/11/13	Permanent	OBC
7	Subject Matter Specialist	Dr. Binod Kumar	Subject Matter Specialist	Vet. & Ani. Sc.	59500 Level- 10	18/10/16	Permanent	OBC
8	Farm Manager	Mr. Rajeev Kumar Singh	Farm Manager	B. Sc. (Ag)	55200 Level- 6	14/01/06	Permanent	Others
9	Computer Programmer	Mrs. Sweta Vishwakarma	Programme Assistant (Computer)	BCA	55200 Level- 6	14/01/06	Permanent	OBC
10	Accountant / Superintendent	Mr. Ratan Oraon	Programme Assistant (Accounts)	B.A.	55200 Level- 6	14/01/06	Permanent	ST
11	Programme Assistant	Mr. Mritunjay Kumar Singh	Programme Assistant	B. Sc. (Ag)	53600 Level- 6	01/02/07	Permanent	Others
12	Stenographer	Miss Sheela Kumari	Stenographer-cum-typist	B.A.	31400 Level- 4	05/06/06	Permanent	ST
13.	Driver	Mr. Abhitendra Oraon	Driver	I.A	29300 Level-3	14/01/06	Permanent	ST
14.	Driver	Mr. Jeetendra Kherwar	Driver	Matric	26000 Level-3	01/11/13	Permanent	ST
15.	Supporting staff	Mr. Ajay Oraon	Supporting Staff	I.A.	25600 Level-1	14/01/06	Permanent	ST
16.	Supporting staff	Mr. Ramesh Oraon	Supporting staff	Matric	25600 Level-1	28/01/06	Permanent	ST

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.12
2.	Under Demonstration Units	0.13
3.	Under Crops	9.00
4.	Orchard/Agro-forestry	11.00
5.	Others with details	
	Total	**20.25**

1.7. Infrastructure Development:

A) Buildings and others

S. No.	Name of building	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	-	-	-	-	√	500	use	ICAR
2.	Farmers Hostel	-	-	-	-	√	305	use	ICAR
3.	Staff Quarters (6)	-	-	-	-	√	400	use	ICAR
4.	Piggery unit	-	-	-	-				
5	Fencing	-	-	-	-	√	2100	use	ICAR
6	Rain Water harvesting structure	-	-	-	-	√	Jal kund (2x2x1m)-16 nos Pond (30x40x3m) - 1 no 5% model (6 ft) –17 nos Sprinkler - 4 ha Drip - 2 ha	use	ICAR
7	Threshing floor	-	-	-	-	√	100' x100'	use	ICAR
8	Farm go down	-	-	-	-	√	(25 x 25) sq ft	use	ICAR
9	IFS	-	-	-	-	√	-	use	ICAR
i	Dairy unit	-	-	-	-	√	-	use	
ii	Goatry unit	-	-	-	-	√	-	use	ICAR
iii	Mushroom production unit	-	-	-	-	√	-	use	ICAR
iv	Vermi Compost Production Unit	-	-	-	-	√	-	use	ICAR
10	Bee keeping	-	-	-	-	√	-	-	ICAR
11	Shade house	-	-	-	-	-	-	-	
12	Soil test Lab	-	-	-	-	√	-	use	ICAR
13	Poultry unit	-	-	-	-	-	-	-	-
14	Mushroom Lab	-	-	-	-	√	-	use	ICAR
15	WBM Road	-	-	-	-	√	1 km	use	ICAR
16	Irrigation Channel	-	-	-	-	√	1100 ft	use	ICAR
17	Mooram road						620 m	Process	ICAR
18	Farm godown					√			NHM
19	Net and polyhouse					√			NHM
20	Medicinal and aromatic plant nursery unit (1 acre)					√			NHM

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total km. Run	Present status
2nd Bolero SLX (JH-01BF 1226)	March 2014	799969.00	25767 km (Total 225677 km)	Good
Motor cycle (JH-07F 6435)	Nov 2015	119580.00		Working
Motor cycle (JH-07F 9320)			4944 km	Working
2nd Tractor (JH 08 F 2076)	March 2017	697199.00	265.1 hr.	Good

C) Equipment & AV aids

Name of the equipment		Qty	Head	Year of purchase	Cost (Rs.)	Present status
a. **Farm machinery & implements**	Tractor	01	ICAR	2005	349454.00	Condemned
	Tractor (JH 08 F 2076)	01	ICAR	2017	697199.00	Working
	Trialer	01	ICAR	2005	55555.55	Working
	Disk plough	01	ICAR	2005	7407.41	Not Working
	Leveler	01	ICAR	2005	6481.48	Not Working
	Cultivator	01	ICAR	2005	10185.20	Not Working
	Disk Harrow	01	ICAR	2005	10185.18	Not Working
	Seed drill	01	ICAR	2005	12962.96	Not Working
	Belt pulley	01	ICAR	2005	2770.78	Not Working
	Cage Wheel	01	ICAR	2005	4629.63	Not Working
	Disk harrow new	01	ICAR	2009	27000.00	Working
	Cultivator new	01	ICAR	2009	18300.00	Working
	Sprayer (1/2 HP)	01	ICAR	2009	5800.00	Working
	Zero Tillage	01	ICAR	2009	32700.00	Working
	Weight machine (100 kg)	01	ICAR	2009	8528.00	Working
	Wheat Thresher	01	ICAR	2011	80015.00	Working
	Power chain saw	01	ICAR	2011	36500.00	Working
	Rotavator	01	ICAR	2012	80000.00	Working
	Paddy Thresher	01	ICAR	2012	105000.00	Working
	Tube well					
	Submersible pump	01	ICAR	2007	18500.00	Working
	Control panel 415 volt	01	ICAR	2007	6000.00	Working
	PVC column pipe	250	ICAR	2007	11250.00	Working
	Submersible wire	100 m	ICAR	2007	4700.00	Working
	Generator 7.5 KVA & Alternator	01	ICAR	2007	557763.00	Working
	Rainwater harvesting					
	Kirloskar pump set 10 HP attached with HW 6D pump	01	ICAR	2007	35000.00	Working
	PVC pipe 110 mm x 4 k/sq cm	300 m	ICAR	2007	541944.40	Working
	PVC pipe 90 mm x 4 k/sq cm	396 m	ICAR	2007	33379.63	Working
	PVC pipe 75 mm x 4 k/sq cm	228 m	ICAR	2007	13716.80	Working
	PVC pipe 63 mm x 4 k/sq cm	594 m	ICAR	2007	24957.50	Working
	30 ltr fertigation tank	02	ICAR	2007	15641.60	Working
	Spin clean filter 25 m^3/hr^2	01	ICAR	2007	10778.77	Working
	Clean water 25m^3/hr^2	01	ICAR	2007	28577.80	Working
	PVC pipe 110 m x 6 k/cm^2	204 m	ICAR	2007	36852.19	Working
	ORC HDPC pipe 75 mx4 kg/cm^2	125 no	ICAR	2007	110110.00	Working
	Overhead sprinkler	32 no	ICAR	2007	12480.00	Working
	Solar panel	01	ICAR	2016	799500.00	Working
	Bush cutter	01	ICAR	2017	29500.00	Working
b. Office furniture etc	Table (Conference table)	03	ICAR	2006	16500.00	Working
	Table (Conference table)	08	ICAR	2012	156636.00	Working
	Table (Conference table)	02	ICAR	2013	60360.00	Working
	Table (medium size with drawer)	04	ICAR	2006	13200.00	Working
	Steel Almirah	02	ICAR	2009	13838.00	Working

Name of the equipment		Qty	Head	Year of purchase	Cost (Rs.)	Present status
	Book Shelf	01	ICAR	2009	5456.00	Working
	Table (5 x 3) size	02	ICAR	2009	11138.00	Working
	Chair (revolving)	02	ICAR	2009	4838.00	Working
	Sethi	06	ICAR	2013	125913.00	Working
	Corner table	02	ICAR	2013	33972.00	Working
	TV Table	01	ICAR	2013	11172.00	Working
	Foot rest	06	ICAR	2013	24054.00	Working
	Chair plastic (neelkamal)	63	ICAR	2005	28350.00	Not Working
	S-Type chair (steel)	10	ICAR	2006	3900.00	Working
	Tube chair	20	ICAR	2005	31000.00	Working
	Tube chair	14	ICAR	2006	16100.00	Working
	Wooden chair	16	ICAR	2005	24800.00	Working
	Wooden chair	36	ICAR	2012	116964.00	Working
	Wooden chair	06	ICAR	2013	21204.00	Working
	Computer table	01	ICAR	2006	3100.00	Working
	Chair with writing pad	09	ICAR	2005	2925.00	Not Working
	Revolving chair	06	ICAR	2008	27000.00	Working
	Visitors chair	12	ICAR	2008	45000.00	Working
	Steel almirah	05	ICAR	2006	21000.00	Working
	Steel almirah	02	ICAR	2013	21660.00	Working
	Book self	04	ICAR	2006	16400.00	Working
	Book self	01	ICAR	2013	9690.00	Working
	Executive chair	01	ICAR	2006	1700.00	Working
	Executive chair	07	ICAR	2012	43092.00	Working
	Table (T9)	02	ICAR	2007	17244.44	Working
	Table (executive)	01	ICAR	2007	20813.00	Working
	Chair (Revolving)	08	ICAR	2017	83970.00	Working
	Chair (Ch 1112)	02	ICAR	2007	4700.00	Working
	Rack	01	ICAR	2007	4000.00	Working
	Rack	08	ICAR	2013	21660.00	Working
	Training hall desk and bench	20	ICAR	2017	67746.00	Working
	Godrej Almirah	01	ICAR	2019	21023.98	Working
	Book shelf	01	IACR	2019	26397.99	Working
	Chair	02	ICAR	2019	27705.99	Working
	Wooden Sofa Set	01	ICAR	2018	35000.00	Working
	Centre Table with glass	01	ICAR	2018	6800.00	Working
	Computer table	01	ICAR	2009	1631.25	Working
	Visitors chair	15	ICAR	2009	24468.75	Working
	Visitors chair	04	ICAR	2013	11172.00	Working
	Steel Almirah	02	ICAR	2009	13500.00	Working
	Generator (8 HP)	01	ICAR	2009	49500.00	Working
	*Ceiling Fan	37	Vikas Bharti	2008	--	Working
	Almirah	01	ICAR	2023	30441.00	Working
	Executive chair	01	ICAR	2023	20296.00	Working
	Plato chair	02	ICAR	2023	19101.00	Working
	Recliner chair (Godrej)	01	ICAR	2023	28843.00	Working
	File cabiner (2 drawer)	01	ICAR	2023	17550.00	Working
c. Office equipments	Computer chair	01	ICAR	2006	1300.00	Working
	Computer	01	ICAR	2007	21849.98	Working
	Camera (S.C 600 Sony)	01	ICAR	2007	13990.00	Working
	Fax machine	01	ICAR	2007	9880.00	Working
	File cabinet	02	ICAR	2007	23949.00	Working
	File cabinet	01	ICAR	2013	17120.00	Working
	Generator (200 AC)	01	ICAR	2007	41200.00	Working
	Printer (color)	01	ICAR	2006	2975.00	Not Working
	Printer (Laser)	01	ICAR	2007	16536.00	Not Working
	P A System	01	ICAR	2011	14625.00	Working
	Xerox machine	01	ICAR	2006	72800.00	Not Working
	Fan	04	ICAR	2007	4700.00	Working
	Table (Mushroom Lab)	01	ICAR	2016	35000.00	Working

Name of the equipment		Qty	Head	Year of purchase	Cost (Rs.)	Present status
	Rack (Angel) Mushroom Lab	08	ICAR	2016	48000.00	Working
	Steel Rack Mushroom Lab	05	ICAR	2016	50000.00	Working
	Biometric	01	ICAR	2016	30100.00	Working
	Sewing machine	01	ICAR	2006	3609.00	Working
	Projector	01	ICAR	2008	55000.00	Not Working
	Projector stand	01	ICAR	2008	6000.00	Working
	Laptop	01	ICAR	2008	40040.00	Not Working
	Mini Laptop	01	ICAR	2013	19000.00	Working
	Inverter	01	ICAR	2009	4299.99	Working
	Okaya Digi Turbo 6030 Battery)	01	ICAR	2009	9500.00	Working
	Colour photo copier	01	ICAR	2011	75000.00	Not Working
	Fax, Scanner combined	01	ICAR	2011	16200.00	Working
	Podium	01	ICAR	2013	44460.00	Working
	Genset 62.5 KV	01	ICAR	2016	500000.00	Working
	Rice mill unit	01	ICAR	2016	86725.00	Working
	Flour mill unit	01	ICAR	2016	85790.00	Working
	Candel unit	01	ICAR	2016	11655.00	Working
	BOD incubator	02	ICAR	2016	264600.00	Working
	Autoclaves	02	ICAR	2016	264600.00	Working
	Digital Balance	04	ICAR	2016	13818.00	Working
	Laminar flow	02	ICAR	2016	382200.00	Working
	Glass ware	01	ICAR	2016	30870.00	Working
	AC 1.5 TR	04	ICAR	2016	199160.00	Working
	AC 1.5 TR	03	ICAR	2020	125400.00	Working
	Refrigerator 258 liter	01	ICAR	2016	26970.00	Working
	Computer set	01	ICAR	2017	47450.00	Working
	CCTV set	01	ICAR	2017	40193.00	Working
	Camera	01	ICAR	2017	21700.00	Working
	Xerox machine	01	ICAR	2019	107598.00	Working
	LCD 32”	01	ICAR	2020	19500.00	Working
	Sound system	01	ICAR	2021	16500.00	Working
	LED	01	ICAR	2017	69000.00	Working
	Kiosk machine	01	ICAR	2017	113650.00	Working
	Projector (K-Yan)	01	ICAR	2017	124750.00	Working
	Projector	01	ICAR	2021	299975.00	Working
	Laptop	01	DBT	2021	60000.00	Working
	Portable Projector & Screen	01	ICAR	2023	24100.00	Working
	Printer (HP 1005)	01	ICAR	2023	23500.00	Working
	Solar Panel (Office) 5 KVA	01	ICAR	2023	328475.00	Working
	Drone	01	ICAR	2023	996000.00	Working
d. Farmers Hostel	Trunk	02	ICAR	2009	2050.00	Working
	Steel sofa	02	ICAR	2013	13680.00	Working
	Utensils (Kitchen set for 50 farmers)	01	ICAR	2009	19990.00	Working
	LPG Connection (Single cylinder)	01	ICAR	2009	4700.00	Working
	Refrigerator (190 lit)	01	ICAR	2009	9800.00	Working
	Dining Table Set (8 chairs)	02	ICAR	2009	59625.00	Working
	Folding Bed	40	ICAR	2008	50000.00	Not Working
	Bed	02	ICAR	2013	18810.00	Working
	Mattress	40	ICAR	2008	54800.00	Not Working
	Mattress	02	ICAR	2013	11742.00	Working
	Kurlon Pillow	40	ICAR	2008	4600.00	Working
	Centre Table	01	ICAR	2013	4275.00	Working
	Wooden bed	20	ICAR	2019	153400.00	Working
	Mattress	20	ICAR	2021	69800.00	Working

- **With administrative building**

C) Equipments and AV aids

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
a. Lab equipment				
Soil & water testing lab	2017	1700063.00	Working	ICAR
Mini Lab	2017	86000.00	Working	ICAR
b. Farm machinery				
Tractor	2005	349454.00	Condemned	ICAR
Trialer	2005	55555.55	Working	ICAR
Belt pulley	2005	2770.78	Working	ICAR
Submersible pump	2007	18500.00	Working	ICAR
Generator 7.5kva, 3 Alternator	2007	557763.00	Working	ICAR
Kirloskar pump set 10Hp with HWED pump	2007	35000.00	Working	ICAR
Fertigation tank 30lit.	2007	15641.00	Not working	ICAR
Kirloskar pump set 8Hp	2008	--	Not working	JHALCO, Gumla
Electric pump 10Hp	2008	--	Working	JHALCO, Gumla
Sprayer	2009	5800.00	Working	ICAR
Weight machine	2009	8528.00	Working	ICAR
Wheat Thresher	2011	75015.00	Working	ICAR
Power chain saw	2011	36500.00	Working	ICAR
Paddy Thresher	2012	105000.00	Working	ICAR
Rotary Power Tiller	2013	--	Not working	Soil Conservation, Gumla
Self propelled reaper (regal 4 HP) 06 no	2014		Working	District soil conservation dept.
Eicher 241 tractor (without cultivator) - 01	2014		Working	-do-
Multicrop thresher	2015		Working	Dist.
2nd Tractor	2017	697199.00	Working	ICAR
Lac processing machine	2018		Working	ICAR-ARYA
Drip irrigation system				
a. PVC water tank (500 lit)- 01	2014		Working	Vikas Bharti Bishunpur
b. PC dripline 200 m -01	2014		Working	District soil conservation dept.
c. Screen filler (1")-01	2014		Working	-do-

D) Farm implements

Name of equipment	Year of purchase	Cost (Rs.)	Present status	Source of fund
Disk Plough	2005	7407.41	Not working	ICAR
Leveler	2005	6481.48	Not working	ICAR
Cultivator	2005	10185.20	Not working	ICAR
Disk harrow	2005	10185.18	Not working	ICAR
Seed drill	2005	12962.96	Not working	ICAR
Case well	2005	4629.63	Not working	ICAR
Disk harrow	2009	27000.00	Not working	ICAR
Cultivator	2009	18300.00	Not working	ICAR
Zero Tillage	2009	32700.00	Not working	ICAR
Rotavator 4’	2012	80000.00	Not working	ICAR
Rotovater 3’	2013			Dist. Soil Conservation, Gumla
Pit Digger	2013		Working	Dist. Soil Conservation, Gumla
Multi Crop planter			Not working	CIMMYT

1.8. Details SAC meeting conducted in the year

Date: 09/09/2022

Total no. of participants: 81

SN	Recommendations	Action Taken (16/02/23)
1	Scented rice cultivation should be promoted organically, especially in Dumri, Bishunpur, Jari and Chainpur.	As per suggestion FLD on Scented rice variety Kalajeera has been conducted in 17.5 ha in Bishunpur, Ghaghra, Gumla and Kamdara block among 30 farmers and scented varieties Kalajeera, Jeeraphool and Bhutku has also been cultivated in 15 ha area under Aspirational District Programme in village Banalat among 45 farmers during Kharif 2022.
2	Finding of OFT should be provided to ATMA.	Findings of OFT has already been provided to ATMA Gumla for large area adoption.
3	Intercropping should be promoted in Mango plantation.	Mustard, Linseed, Wheat, Potato, Cabbage and vegetable pea has already been planted as on intercropping with mango in village Gunia, Belagara, Jargatoli, Shivrajpur, Sarnatoli and Katai dammar in approx 30 acre among 35 farmers.
4	Refinement should be made in traditional practice, which is being practiced by the tribal farmers in general.	KVK is working in this direction
5	Focus should be given on development pear planting material.	As per suggestion 350 no. of pears planting material has already been introduced and 500 planting material will be grow in Kharif 2023.
6	KVK should be developed a nodal in-charge for developing the farmer's success stories of the District.	Initiative has already been taken in this direction to collect the success stories of concerned line department farmers.
7	Seed production program details should be provided to the concern department.	Seed production programme is being implemented as per the norms of Jharkhand State Government Seed Certification Agency and accordingly we have provided all the information to the concern authority of the district. During Kharif 2022. Rice, Groundnut was undertaken under seed production programme in 06 ha area.
8	Year round production model of nutritional garden should be developed at farmer's field as well as KVK farm.	As per suggestion year round fruit and vegetable cultivation programme is being implemented in 05 villages of Bishunpur and Ghaghra block among 10 farmers.
9	Focus should be given on Fisheries production.	As per suggestion focus has been given and 10 no. of FLD was conducted on Composite Fish Production in 03 villages among 10 farmers.
10	KVK should focus on developing the farmer success stories with the documentary of Ranchi Doordarshan.	As per suggestion 07 success stories has been provided and documentary has been made on vermicompost production, IFS model, Natural farming, Pig farming, Mustard cultivation under CFLD and DRMR Programme and also NICRA activities by Ranchi Doordarshan.
11	Lime application should be promoted in Fisheries pond.	Action will be taken in coming Kharif season.
12	Focus should be given on strengthening of FPO.	As per suggestion KVK is being provided support to FPO for it's strengthening in terms of capacity building, group mobilization, collection of money sharing, small farm equipment, FLD and institutional arrangements
13	Focus should be given on fruit plant cultivation also.	In this direction KVK has already taken an initiative to promote mango, Papaya and Guava plantation. And also provide 600 no. of mango, 100 no. of papaya planting material among 85 No. of farmers.
14	Brood lac treatment technique should be demonstrated.	As per suggestion Brood lac treatment technique has already been demonstrated under ARYA Project in village Nagar of Sisai block on 450 host tree among 50 farmers in July 2022.
15	Promotion of Semialata plant for lac cultivation.	That will be promoted in coming Kharif season 2023.
16	New variety of Maize should be promoted other than Suwan-1.	As per suggestion, a short duration Maize variety will be promoted in coming Kharif season.
17	Maize variety HQPM should be more promoted.	During Kharif 2023, recent HQPM variety will be promoted under FLD.

SN	Recommendations	Action Taken (16/02/23)
18	Birsa Arhar-2 should be promoted.	That will be promoted in coming Kharif season.
19	Micro nutrient application in mango should be promoted.	As per suggestion micro nutrient application was done on 105 mango plants in village Shivrajpur of Ghaghra block among 08 no. of farmers.
20	FLD on control of Fruit fly in Guava and mango should be undertaken.	As per suggestion FLD on Pheromone trap for control of fruit fly has been done in 2.5 ha of mango and 0.5 ha in Guava at KVK farm and farmers field in village Shivrajpur among 10 farmers mango orchard.
21	Colocasia should be undertaken under FLD in Nutritional garden.	Colocasia plantation will be undertaken in Kharif season under Nutritional garden in village Banari and Gunia among 05 farmers.
22	Bio-fortified crop varieties should be undertaken in FLD.	As per suggestion Bio-fortified Mustard variety PM-30 has been demonstrated in 72.2 ha area under CFLD and DRMR FLD programme in Rabi 2022 among 157 farmers in 15 villages.
23	Millet should be promoted in FLD and OFT	As per suggestion KVK has been conducted FLD on Ragi in 16 ha area among 81 farmers in 05 villages and also will conduct one OFT on value addition and one variety evaluation.
24	Food processing activities should be under taken in FPO activities.	Food processing activities will be under taken in both the FPO of Raidih and Gumla.

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

1. Major farming systems/enterprises – RAINFED (based on the analysis made by the KVK)

S. No	Farming system/enterprise
Integrated crop – livestock – fish farming system	
1.	Watershed based farming system
2.	Crop based farming system
3.	Agro forestry based farming system
4.	Live stock based farming system

2. Agro-climatic Zone & major agro ecological situations (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1.	Zone V	The soil of plateau is nutritionally poor & organic matter rapidly declining due to deforestation, leaching & soil erosion. Hence high degree of soil management and soil husbandry have become imperative for intensive cultivation in the existing soil of the plateau the soil of the district is Red laterite to Sandy Clay & Clay loam. The farming situation of the district is rainfed the cropping pattern is mainly monocropping & kharif based

3. Agro ecological situation

S. No	Agro ecological situation	Characteristics
1	South Western plateau	South Western plateau is characterized by hot sub humid eco-region with red loamy soil. Summer season is generally hot and winter is cold. The soil type varied from red laterite to sandy clay and clay loam with an undulating topography and least irrigation facilities.

4. Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Red laterite to sandy clay & clay loam	The soil is universally poor in N & K due to high excessive leaching. They have high P fixation capacity due to the presence of Kaolinitic along with sesquioxides. Hence high degree of soil management and soil husbandry have become imperative for intensive cultivation in the existing soil of the plateau	80% of the total geographical area (531396.13 ha)

5. Area, Production and Productivity of major crops cultivated in the district

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Total cereal	183925	3033060	16.49
2.	Total Pulses	15965	10578	6.63
3.	Total Oilseeds	7991	6606	8.27
4.	Paddy	176000	2923260	22.0
5.	Maize	5300	71990	14.50
6.	Mandua	1125	7810	7.10
7.	Wheat	1500	30000	20.0
8.	Red Gram	857	298	3.48
9.	Gram	514	194	3.77
10.	Urd	10325	6992	6.77
11.	Mustard	348	148	4.25
12.	Linseed	80	45	5.63
13.	Potato	2218	20080	9.05

6. **Weather data****

Month	Rainfall (mm)	No. of rainy days	Temperature ^{0} C		Relative Humidity (%)
			Maximum	**Minimum**	
January 22	1.6	04	22.3	10.7	55.5
February 22	3.5	04	25.6	11.8	40.3
March 22	0	0	34.5	17.4	24.3
April 22	4.4	02	40.3	22.4	20.5
May 22	23.9	08	37.0	23.4	38.4
June 22	71.7	18	35.2	24.1	44.7
July 22	130.6	28	30.5	22.4	73.4
August 22	319.4	27	29.3	22.2	48.7
September 22	208.5	27	30.0	22.1	79.0
October 22	80.7	16	29.5	19.5	71.0
November 22	0	0	28.1	13.8	48.8
December 22	0	0	26.5	9.8	36.7
Total	**844.3**	**134**			

** Source of data: - District Agriculture Department, Gumla & IMD

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

Category	Population (000) area	Production	Productivity
Cattle			
Crossbred	868.36	--	--
Indigenous	438.60	--	--
Buffalo	62.5	--	--
Sheep	10.09	--	--
Crossbred	--	--	--
Indigenous	--	--	--
Goats	283.55	--	--
Pigs	73.84	--	--
Crossbred	--	--	--
Indigenous	--	--	--
Rabbits	--	--	--
Poultry	705.17	--	--
Hens	--	--	--
Desi	--	--	--
Improved	--	--	--
Ducks	--	--	--
Turkey and others	--	--	--

Category	Area (in ha)	Production (in metric ton)	Productivity
Fish	636	3100 MT	--
Marine	--	--	--
Inland	--	--	--
Prawn	--	--	--
Scampi	--	--	--
Shrimp	--	--	--

2 (b) Details of operational area / villages (2022)

Sl	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Bishunpur	Sato, Kubatoli, Titahi, Banalat, Karamtoli, Champatoli, Mahuwatoli, Cheda, Langratanr, Sato, Chatti serka, Narma, Samdari, Manjeera, Chapatoli, Dardag, Tumse Roll, Chorkakhand, Banari, Range, Beti, Ghaghra, Arangloya, Orya, Ankuri, Bahar Serka, Chingri, Nirasi, Hesrag, Nawagarh Serka, Deepadih Karamtoli, Salam Nawatoli, Goratoli, Jehan, Gutuwa, Longa	Paddy, Maize, Ragi, Groundnut, Mustard, Chickpea, Blackgram, Niger, Redgram, Wheat, Backyard poultry, Fishries	1. Generally monocropping due to poor irrigation facilities and open grazing. 2. Poor adoption of improved technology due to scare resources. 3. Seed replacement ratio is poor. 4. Malnutrition. 5. Soil & Water erosion. 6. Unavailability of green fodder for whole year. 7. Low miltching rate due to indiscript breed. 8. Agri – based opportunity is very poor. 9. Low yield potential 10. Low irrigation oppertunity	1. Promotion of double or multiple cropping 2. Water Conservation. 3. Promotion of Seed Village. 4. Create awareness about improved technology 5. Area expansion under oilseed and pulses especially in rainfed upland. 6. Employment generation through Agri based entrepreneur. 7. Capacity building of Kisan Club/ Krishak Mitra. 8. Women empowerment through SHG. 9. Development of Pashu Mitra (Para-Vet) 10. Awareness for stalk feeding of animal. 11. Irrigation sources development 12. Enhanced cropping intensity
2	Ghaghra	Kurag, Shivrajpur, Sarnatoli, Naatoli, Nawadih, Guniya, Barkadih, Chatti, Belagarha, Burhu, Khambhiya, Jargatoli, Tangarsikwar, Lahasdanr, Tintanagar, Ajiyatu, Porha, Ghutti, Sehal Bansitoli, Chundari, Kotamati, Halmati, Sarango, Nawatoli			
3	Gumla	Telgaon, Patiya sikariyatoli, Rekma, Nawdiha lesatoli, Phori jungatoli, Kasitoli, Mokaro, Atariya, Jhargaon			
4	Sisai	Lakeya, Lakeya dumartoli, Dahutoli, Lulahuwa, Kataidamar, Lalmati, Thethaitangar, Samal, Songara, Nagar, Pandariya Pahadtoli, Kudadamar			
5	Bharno	Dumbo, Bantoli, Malgo, Khartanga			
6	Raidih	Sugakata, Silam, Manjhatoli, Raghunathpur, Bakaspur, Khatkhor, Keradih, Mokro, Ambatoli, Kondra			
7	Palkot	Alankera, Thekratoli, Barchattan, Bandhukhoer, Matimtoli,Tepsatoli			
8	Basia	Potka, Murumkera, Surhu, Sarnda Shivatoli, Lanwakera, Koleng, Kaliga			
9	Kamdara	Saleguttu, Surhu, Gada, Kotbo, Akra			
10	Chainpur	Chainpur, Ratujamtoli, Bartoli, Simla Bartoli, Bhathauli, Tingtangar, Chhatarpur			
11	Dumri	Lathatoli, Ratantoli			
12	Albert Ekka Jari	Tilhatoli, Hutar			

2(c) Details of village adoption programme:

Name of the villages adopted by PC and SMS in 2022 for its development and action plan

Name of village	Block	Action taken for development
Banalat	Bishunpur	Promotion of organic rice cultivation & awerness of SAP
Sugakata	Sisai	Organic rice cultivation
Kataidamar	Sisai	Lac and mustard cultivation
Lalmati	Sisai	Lac and redgram cultivation
Chhota Ajiyatu	Ghaghra	Goat farming
Kurag	Ghaghra	Mango & mushroom cultivation
Shivrajpur	Ghaghra	Promotion of Resilient agriculture technology
Khatanga	Bharno	Lac & redgram cultivation
Belagarha	Ghaghra	Promotion of Resilient agriculture technology
Burhu	Ghaghra	Promotion of Resilient agriculture technology
Gunia	Ghaghra	Promotion of Resilient agriculture technology

2.1 Priority thrust areas

S. No	Thrust area
1.	Soil and Water Conservation.
2.	Aforestation and Rural employment security
3.	Water harvesting with efficient utilization
4.	Overcome malnutrition through diversification
5.	Women empowerment
6.	Area eextension under fodder cultivation
7.	Integrated Farming System approach through
8.	Promotion of Lac cultivation
9.	Animal health care and management
10.	Orgainic Farming
11	Soil Healtrh Card
12	Promotion of Farmer Producer Organization (FPO's)
13	Natural farming

3. TECHNICAL ACHIEVEMENTS

3. 1. Summary details of target and achievement of mandatory activities by KVK during the year 2022

OFT											
No. of technologies tested:											
Number of OFTs		Number of farmers									
Target	Achievement	Target	Achievement								
			SC		ST		Others		Total		
			M	F	M	F	M	F	M	F	T
10	10	120	3	0	52	44	13	6	68	50	118

	FLD											
	No. of technologies tested:											
	Target (ha)	Achievement (ha)	No. of technologies demonstrated:									
			Target (No. of FLD)	Achievement								
				SC		ST		Others		Total		
				M	F	M	F	M	F	M	F	T
Cereals (Kharif & Rabi 2022)	29.4	27.90	70	0	0	106	33	5	1	111	34	**145**
Pulses (Summer 2022)	2.0	2.13	5	0	0	10	0	0	0	13	0	**13**
Vegetables (Rabi & Summer 2022)	4.4	4.4	11	1	0	17	7	1	0	19	7	**26**
Ziro till(Rabi 2022)	1.0	1.0	3	0	0	1	0	0	0	1	0	**1**
Organic Rice (Kharif 2021)	25	25	63	0	0	50	17	1	0	51	17	**68**
CFLD on OilSeed (Kharif & rabi 2022-23)	100	100	250	3	0	102	51	43	6	148	57	**205**
CFLD on Pulses (Rabi 2022-23)	60	60	150	1	0	112	72	22	39	135	111	**246**
CFLD on Oilseed (Rabi 2021-22)	30	30	75	0	0	39	22	7	1	46	23	**69**
Drone (Kharif 2022-23)	30.86	30.86	78	2	0	12	17	19	8	33	25	**58**
AICRP Niger (Kharif 2022)	12	12	30	0	0	27	3	0	0	27	3	**30**
DRMR (Rabi 2022-23)	40	40	100	0	0	73	35	0	0	73	35	**108**
Organic Demonstration (PKVY Kharif 2022)	17.50	17.50	44	0	0	26	0	4	0	30	0	**30**
TSP (2022)	0.4	0.4	1	0	0	17	0	0	0	17	0	**17**
Forage Demonstration	7.0	7.0	18	2	1	8	6	43	10	53	17	**70**
Natural farming	3.2	3.2	8	0	0	7	0	1	0	8	0	**8**
Nutritional garden (2022-23)	20 No	20 No	20	0	0	20	0	0	0	0	20	**20**
Enterprise (2022-23)	31 No	31 No	0	0	9	18	2	2	11	20	31	**51**
Mushroom cultivation (Women Empowerment-2022)	100 No	100 No	100	0	0	0	100	0	0	0	100	**100**
Total	**362.76 & 151 No**	**361.39 & 151 No**	**1026**	**9**	**10**	**645**	**365**	**148**	**76**	**785**	**480**	**1265**

	Training											
	Number of Courses		Number of Participants									
	Target	Achievement	Target	Achievement								
				SC		ST		Others		Total		
				M	F	M	F	M	F	M	F	T
PF	90	213	2200	15	24	2635	2340	426	550	3066	2904	5990
RY & Vocational + School Dropout + ASCI	55	30	1086	01	01	305	188	33	30	339	219	558
EF	20	12	600	01	0	70	14	66	09	137	23	160
Total	**165**	**255**	**3886**	**17**	**25**	**3010**	**2542**	**525**	**589**	**3542**	**3146**	**6708**

Extension activities

Nature of Extension Activity	Number of activities		Number of participants										
				Achievement									
				SC		ST		Others		Total			
	Target	Achievement	Target	M	F	M	F	M	F	M	F	T
Field Day	30	30	900	5	0	256	172	68	8	329	180	509
Kisan Mela	02	0	600	0	0	0	0	0	0	0	0	0
Kisan Ghosthi	24	10	960	4	9	238	319	54	74	296	402	698
Exhibition	02		300							0	0	0
Film Show	12	5	240	0	0	66	28	1	0	67	28	95
Method Demonstrations	06	10	120	7	0	79	50	26	9	112	59	171
Farmers Seminar	01		100							0	0	0
Workshop Training of soil health card beneficiaries and kharif workshop	06	12	100	3	2	281	87	125	20	409	109	518
Group meetings	07	5		0	0	61	22	1	0	62	22	84
Lectures delivered as resource persons		1		0	0	50	0	0	0	50	0	50
Advisory Services	120	59	1200	4	0	399	175	10	4	413	179	592
Scientific visit to farmers field	220	160	1200	2	0	489	138	57	10	548	148	696
Farmers visit to KVK	240	100	1200	3	0	774	275	131	11	908	286	1194
Diagnostic visits	14		420							0	0	0
Exposure visits	01	7	22	3	1	75	38	63	24	141	63	204
Ex-trainees Sammelan	05	3	100	0	0	0	39	0	6	0	45	45
Soil health Camp	05	3	210	0	0	73	30	23	1	96	31	127
Animal Health Camp	12	20	360	4	0	241	31	36	11	281	42	323
Agri mobile clinic										0	0	0
Soil test campaigns	05	2	175	0	0	61	34	16	2	77	36	113
Farm Science Club Conveners meet	12		360							0	0	0
Self Help Group Conveners meetings	04	5	900	0	0	0	50	0	0	0	50	50
Mahila Mandals Conveners meetings	05		200							0	0	0
Special Programmes (specify)										0	0	0
Sankalp Se Siddhi	12		240							0	0	0
Swatchta Hi Sewa	12		240							0	0	0
Any Other (Specify)										0	0	0
Any Other (Specify)										0	0	0
Help line		612		6	1	600	74	265	15	871	90	961
Clinical service	12	169	240	1	0	111	19	31	12	143	31	174
FAP conducted		30		7	7	495	391	150	99	652	497	1149
Swachchta Programme		7		0	0	79	80	7	1	86	81	167
Farmer Scientist interaction		03		2	0	144	66	55	16	201	82	283
FLD Training		20		0	0	141	149	14	3	155	152	307
Swachchta Mah		10		4	2	301	169	74	9	379	180	559
TSP input distribution		20		5	4	523	194	69	42	597	240	837
Crop cutting		12		0	3	16	164	7	55	23	222	245
Natural farming		24		4	1	483	318	48	10	535	329	864

Nature of Extension Activity	Number of activities		Number of participants										
				Achievement									
				SC		ST		Others		Total			
	Target	Achievement	Target	M	F	M	F	M	F	M	F	T	
awareness													
Agriculture knowledge at rural school		1		1	0	10	17	2	2	13	19	32	
Input distribution under DBT		1		0	0	3	5	7	0	10	5	15	
Input distribution under DRMR		2		0	0	35	27	2	0	37	27	64	
Stall exhibition in kisan mela		2		0	0	194	72	69	0	263	72	335	
Rabi workshop	1	5	300	12	0	145	18	87	3	244	21	265	
FPO meeting		10		0	0	55	37	34	0	89	79	168	
Krishi chaupal		8		5	1	328	243	91	33	424	277	701	
ICAR student READY programme		1		0	1	1	5	10	8	11	14	25	
RAWE programme		2		1	1	6	9	8	6	15	16	31	
Live telecast programme		1		0	0	407	367	26	12	433	379	812	
Workshop on solar energy		1		0	0	25	3	12	2	37	5	42	
Baseline survey		3		0	0	38	50	2	4	40	54	94	
Soil sample testing		1		0	1	1	2	8	4	9	7	16	
Live telecast of PM programme		1		0	0	23	17	0	0	23	17	40	
Jal shakti abhiyan		2		2	0	172	92	18	17	192	109	301	
Kisan samman diwas-23 Dec (Online)		1		1	0	61	150	10	0	72	150	222	
National girl child day (24 jan)		1		0	0	0	39	0	4	0	43	43	
Republic Day (26 Jan)	1	1	150	0	0	26	8	15	2	41	10	51	
World pulse day (24 feb)		1		0	0	32	6	0	0	32	6	38	
Bharat bharti bhasha mahotsawa (22 feb)		1		0	0	19	1	9	1	28	2	30	
World Women Day (8 Mar)	1	1	100	0	0	3	116	5	52	8	168	176	
World water day (22 mar)	1	1	50	0	0	27	0	3	0	30	0	30	
Technology week		1		4	2	285	214	55	21	344	237	581	
National lac day (16 may)		1		0	0	8	17	0	0	8	17	25	
World bee day (20 may)		1		0	0	21	24	0	0	21	24	45	
International Yoga day (21 June)		1		1	0	78	69	1	0	80	69	149	
World Environment day (5 June)	**1**	1	50	0	0	22	27	0	0	22	27	49	
ICAR foundation day (16th July)	**1**	1	100	1	0	88	220	13	11	102	231	333	
Vishwa Aadiwasi diwas (9th Aug)	**1**	1	100	0	0	22	13	0	0	22	13	35	
Independence day	**1**	1	300	1	1	40	60	0	0	40	60	100	
Parthenium awareness week (16-	**1**	1	300	0	0	48	8	0	0	48	8	56	

Nature of Extension Activity	Number of activities		Number of participants										
				Achievement									
				SC		ST		Others		Total			
	Target	Achievement	Target	M	F	M	F	M	F	M	F	T	
22 Aug)													
Har ghar tiranga		1		0	0	12	19	0	0	12	19	31	
Nutrition week (1-7 sep)	**1**	5	300	0	0	4	121	6	33	10	154	164	
National campaign on poshan abhiyan and tree plantation (17 sep)		1		1	2	50	63	10	5	61	70	131	
Mahila kisan diwas (15th Oct)	**1**	1	100	0	0	3	18	0	0	3	18	21	
World food day (16th October)	**1**	1	100	0	0	14	5	0	1	14	6	20	
World soil day (5 Dec)	**1**	1	200	0	0	39	63	1	0	40	63	103	
Krishi shiksha diwas (3 dec)	**1**	1	200	0	0	0	51	0	0	0	51	51	
Extension literature distributed		17		1	1	215	232	115	140	339	375	706	
Total		**1424**		**94**	**39**	**8596**	**5620**	**1950**	**803**	**10640**	**6462**	**17102**	

Other Extension activities

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Newspaper coverage	51									
Radio talks	03									
TV talks	12									
Popular articles	-									
Extension Literature distributed	17									3000
Extension Literature Published	03									
mKisan portal	12	290935	0	290935				290935	0	290935
Bulletine issued	104	29045	0	29045				29045	0	29045
Daily weather forecast	264	20945	0	20945				20945	0	20945
Whatsapp advisory	19	7729	344	8073				7729	344	8073

Impact of capacity building											
Number of Participants trained		Number of Trainees got employment (self/ wage/ entrepreneur/ engaged as skilled manpower)									
Target	Achievement	SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
100	80	0	0	48	19	08	05	56	24	80	

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

Seed production (q)			Planting material (Nos. in lakh)	
	Target	Achievement	Target	Achievement
Kharif	103.4	87.74	51200	24910
Rabi (2021-22)	80.0	15.35		
Rabi (2022-23)	43.4			

Livestock strains and fish fingerlings produced (in lakh)*		Soil, water, plant, manures samples tested (in lakh)	
Target	Achievement	Target	Achievement
		0.06	0.00092
Total		**0.006**	**0.00092**

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	02						
Seminar/conference/ symposia papers	03						
Books	-						
Bulletins (GKMS)	104						
Bulletins (Mushroom Cultivation)	01						
News letter (NICRA)	-						
Popular Articles	-						
Book Chapter	-						
Extension Pamphlets/ literature	03						
Technical reports	08						
Electronic Publication (**CD**/DVD etc)	01						
TOTAL	**22**						

3.1.1 Achievements on technologies assessed and refined

OFT-01

(Soil Science)

Rabi 2021-22

1. **Title of On farm trial : Assessment of INM on yield of Mustard.**

2. Problem diagnose: Imbalance nutrient management.

3. Details of technologies selected for assessment/refinement:

FP : Imbalance nutrient management (N 27.5 kg + P_2O_5 11.5 kg)/ha

TO_1 : RD (N:P:K 80:60:40 kg/ha)

TO_2 : TO_1+ soil application of PSB (5kg/ha) + Azotobacter (5kg/ha)

TO_3 : RD (N:P:K :: 80:60:40 kg/ha) + Lime@4q/ha + Sulphur@20kg/ha

Design: **RBD**

Replication: **10**

4. Source of Technology: BAU Ranchi

5. Production system and thematic area : Rice based production system and Integrated Nutrient Management

6. Performance of the Technology with performance indicators:

Table – Assessment of Integrated Nutrient Management in Mustard.

Technology option	No of replication	Data related problem addressed	Yield component				Yield (q/ha)	C.C. (Rs./ha)	Gross income (Rs./ha)	Net Return (Rs/ha)	B:C
			Plant height (in cm)	No of siliqua/Plant	No. of seeds/siliqua.	1000 seed weight.					
FP : Imbalance nutrient management (N 27.5 kg + P_2O_5 11.5 kg)/ha	10		156.36	214.03	11.00	3.06	10.49	22750	57695.00	34945.00	2.54
TO_1: RD (N:P:K 80:60:40 kg/ha)			172.70	272.93	14.09	4.05	13.49	27970	74222.50	46252.50	2.65
TO_2 : TO_1+ soil application of PSB (5kg/ha) + Azotobacter (5kg/ha)			176.89	298.43	15.09	4.56	15.45	29470	84965.83	55495.83	2.88
TO_3: RD (N:P:K :: 80:60:40 kg/ha) + Lime@4q/ha + Sulphur@20kg/ha			179.73	327.36	16.63	4.70	17.46	32770	96030.00	63260.00	2.93
C.D.			**1.22**	**12.24**	**0.73**	**0.14**	**1.12**				
SE(m)			**0.42**	**4.19**	**0.25**	**0.05**	**0.38**				

7. Final recommendation for micro level situation:

The test was conducted during rabi season on 10 farmers field of village Khatanga and Baharserka of Ghaghra and Bishunpur Block to find out the suitable technological option for enhancing crop yield and income. Data collected during the trial clearly indicated that the maximum yield (17.46 q/ha), net income (Rs 63260/ha) and B:C ratio (2.93) was found under technology option 3 i.e. RD (N:P:K :: 80:60:40 kg/ha) + Lime@4q/ha + Sulphur@20kg/ha.

The percent yield enhancement observed was 66.44, 29.43 and 13.00 over FP, $T0_1$ and $T0_2$ respectively. Hence technology option 3 is being recommended for getting maximum yield and income.

8. Constraints identified and feedback for research:

- Difficulties in managing the balance used of fertilizers with line and sulphur application.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. Field day
3. Farmer to farmer interaction.

Thematic area: Integrated nutrient management

Problem definition: Imbalance nutrient management.

Table – Response of INM on the yield of Mustard.

Technology option	No. of replication	Yield (q/ha)	Net Return (Rs / ha)
FP : Imbalance nutrient management (N 27.5 kg + P_2O_5 11.5 kg)/ha	10	10.49	34945.00
TO_1: RD (N:P:K 80:60:40 kg/ha)		13.49	46252.50
TO_2 : TO_1+ soil application of PSB (5kg/ha) + Azotobacter (5kg/ha)		15.45	55495.83
TO_3: RD (N:P:K :: 80:60:40 kg/ha) + Lime@4q/ha + Sulphur@20kg/ha		17.46	63260.00
SEm±		**1.12**	
CD(P=0.05)		**0.38**	

Results:

The test was conducted during rabi season on 10 farmers field of village Khatanga and Baharserka of Ghaghra and Bishunpur Block to find out the suitable technological option for enhancing crop yield and income. Data collected during the trial clearly indicated that the maximum yield (17.46 q/ha), net income (Rs 63260/ha) and B:C ratio (2.93) was found under technology option 3 i.e. RD (N:P:K :: 80:60:40 kg/ha) + Lime@4q/ha + Sulphur@20kg/ha.

The percent yield enhancement observed was 66.44, 29.43 and 13.00 over FP, $T0_1$ and $T0_2$ respectively. Hence technology option 3 is being recommended for getting maximum yield and income.

Sampling Time	OC%	pH	Av. N kg/ha	Av. P_2O_5 kg/ha	Av. K_2O kg/ha
Before Transplanting	0.51	5.55	284.45	9.65	229.25
After harvesting					
FP	0.53	5.54	279.45	9.50	219.20
T_1	0.53	5.53	290.52	10.50	230.35
T_3	0.54	5.55	292.46	11.72	233.40
T_5	0.56	5.60	318.40	12.05	235.45

OFT-02

(Soil Science)
Kharif 2022-23

1. **Title of On farm trial :** Response of liquid urea (Nano urea) application on the yield of transplanted improved variety of rice**.**

2. Problem diagnose: Poor soil fertility leads lower yield of transplanted rice.

3. Details of technologies selected for assessment/refinement:

FP : FYM (25 q) + N (55 kg) + P_2O_5 (23 kg) + K_2O (15 kg)/ha

TO_1 : FP + 2 spray of Nano urea @ 0.2%

TO_2 : FP + 2 spray of Nano urea @ 0.4%
1^{st} spray DAT 20-25 days
2^{nd} spray – 20-25 days after 1^{st} spray

Design: **RBD**

Replication: **10**

4. Source of Technology: **SAU/** BAU Ranchi

5. Production system and thematic area : Rice based production system and Integrated Nutrient Management

6. Performance of the Technology with performance indicators:

Table – Response of liquid urea (Nano urea) application on the yield of transplanted rice**.**

Technology option	No of replication	Data related problem addressed	Yield component					Yield (q/ha)	C.C. (Rs/ha)	Gross income (Rs/ha)	Net Return (Rs/ha)	B:C
			Plant height (in cm)	No of effective tillers/plant	Panicle length (in cm)	No. of Grain/panicle	Test weight (in gm)					
FP : FYM (25 q) + N (55 kg) + P_2O_5 (23 kg) + K_2O (15 kg)/ha	10		101.78	317.57	16.56	162.40	21.22	31.86	34500	62764.20	28264.20	1.82
TO_1: FP + 2 spray of Nano urea @ 0.2%			103.73	325.17	17.86	173.10	22.55	34.24	35500	67449.52	31949.52	1.90
TO_2 : FP + 2 spray of Nano urea @ 0.4%			104.82	332.77	18.82	179.67	23.56	36.28	36500	71478.17	34978.17	1.96
C.D.			**1.85**	**3.94**	**0.52**	**4.08**	**0.43**	**1.15**				
SE(m)			**0.62**	**1.32**	**0.17**	**1.36**	**0.14**	**0.38**				

7. Final recommendation for micro level situation:

The experiment was conducted on 10 farmers field in village Pibo Bandartoli, Pibo Khas and Pibo Bagichatoli of Raidih block during kharif season 2022-23. The variety used was Swarna sreya. The data collected during the trial clearly indicated that the maximum grain yield (36.28 q/ha), net return (Rs. 34978/ha) and B:C ratio (1.96) was found under Technology option 2 i'e FP + 2 spray of Nano urea @ 0.4%. The percent yield enhancement was 13.87 and 5.96 over FP and TO_1. The variety used was Swarna sreya.

8. Constraints identified and feedback for research:

- Problem faced in motivation to apply nano urea. Because the farmer never use nano urea before trial.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. On field training
3. Regular field visit and feedback
4. By seeing the good result towards application of nano urea farmers' showed happiness and encouragement.

Thematic area: Integrated nutrient management

Problem definition: Poor soil fertility leads lower yield of transplanted rice.

Table – Response of liquid urea (Nano urea) application on the yield of transplanted rice**.**

Technology option	No. of replication	Yield (q/ha)	Net Return (Rs / ha)
FP : FYM (25 q) + N (55 kg) + P_2O_5 (23 kg) + K_2O (15 kg)/ha	10	31.86	28264.20
TO_1: FP + 2 spray of Nano urea @ 0.2%		34.24	31949.52
TO_2 : FP + 2 spray of Nano urea @ 0.4%		36.28	34978.17
SEm±		**1.15**	
CD(P=0.05)		**0.38**	

Results:

The experiment was conducted on 10 farmers field in village Pibo Bandartoli, Pibo Khas and Pibo Bagichatoli of Raidih block during kharif season 2022-23. The variety used was Swarna sreya. The data collected during the trial clearly indicated that the maximum grain yield (36.28 q/ha), net return (Rs. 34978/ha) and B:C ratio (1.96) was found under Technology option 2 i'e FP + 2 spray of Nano urea @ 0.4%. The percent yield enhancement was 13.87 and 5.96 over FP and TO_1. The variety used was Swarna sreya.

Balance Sheet

Soil Sampling time		pH	OC%	Available in kg/ha		
				N	P_2O_5	K_2O
Before transplanting		5.85	0.53	278.45	9.50	235.25
After transplanting	**FP**	5.83	0.56	275.10	9.05	230.32
	TO_1	5.83	0. 56	279.00	8.85	228.50
	TO_2	5.83	0.58	280.15	8.80	226.30

OFT- 03

(Horticulture)
Kharif 2022

1. **Title of On farm trial : Effect of Micronutrient on growth and yield of brinjal during kharif.**

2. Problem diagnose : Low yield due to poor fertilizer

3. Details of technologies selected for assessment/refinement:

FP : RDF (100:60:50 kg NPK/ /ha)

TO_1 : RDF + Borax (0.2%) spray before flower initiation and after fruit set

TO_2 : RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set

Design: **RBD**
Replication: **10**

4. Source of Technology: **BAU Ranchi**

5. Production system and thematic area : Vegetable based production system and INM

6. Performance of the Technology with performance indicators:

Table – Effect of Micronutrient on growth and yield of brinjal during kharif.

Technology option	No. of replication	Yield components			Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		Plant height (cm)	No. of fruit/plant	Fruit weight / plant (gm)					
FP : RDF (100:60:50 kg NPK/ /ha)	10	43.30	9.50	1057.40	135.72	60500	162864	102364	2.69
TO_1 : RDF (100:60:50 kg NPK/ /ha)		65.20	14.20	1280.10	165.08	63500	198096	134596	3.11
TO_2 : RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set		80.40	20.30	1895.50	211.54	6500	253848	188348	3.87
SEm+					**1.78**				
CD(P=0.05)					**5.29**				

7. Final recommendation for micro level situation:

On Farm Trial was conducted at 10 farmers' field of village Orbenga, Solga and Tapkara of Palkot block during Kharif 2022 with an objective to find out the effective treatment combination for maximizing fruit yield and income in Brinjal in Kharif season. The data observed during the trial clearly indicated that Technology option 2 i'e RDF + Borax 0.2% + $ZnSO_4$ (0.5%) yielded maximum yield (211.54 q/ha), net income (Rs. 188348/ha) and B:C ratio (3.87) was found under Technology option 2 i'e RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set. The percent yield enhancement of 55.86 and 28.14 was found over FP and TO_1.

Hence Technology option 2 i'e RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set is being recommended for maximum yield and profit.

8. Constraints identified and feedback for research:

- Motivation of farmers for conducting trial was difficult because they had never applied such type of combination.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. Regular follow up and feed back from farmer's
3. Field day for showing the impact of trial
4. Farmers' reaction about the performance of trial was satisfactory

Thematic area: Integrated Nutrient Management

Problem definition: : Low yield due to poor fertilizer.

Table – Effect of Micronutrient on growth and yield of brinjal during kharif.

Technology option	No. of replication	Yield (q/ha)	Net Return (Rs / ha)
FP : RDF (100:60:50 kg NPK/ /ha)	10	135.72	102364.00
TO_1 : RDF (100:60:50 kg NPK/ /ha)		165.08	134596.00
TO_2 : RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set		211.54	188348.00
SEm+		**1.78**	
CD(P=0.05)		**5.29**	

Results:

On Farm Trial was conducted at 10 farmers' field of village Orbenga, Solga and Tapkara of Palkot block during Kharif 2022 with an objective to find out the effective treatment combination for maximizing fruit yield and income in Brinjal in Kharif season. The data observed during the trial clearly indicated that Technology option 2 i'e RDF + Borax 0.2% + $ZnSO_4$ (0.5%) yielded maximum yield (211.54 q/ha), net income (Rs. 188348/ha) and B:C ratio (3.87) was found under Technology option 2 i'e RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set. The percent yield enhancement of 55.86 and 28.14 was found over FP and TO_1.

Hence Technology option 2 i'e RDF + Borax 0.2% + $ZnSO_4$ (0.5%) before flower initiation and after fruit set is being recommended for maximum yield and profit.

OFT- 04

(Horticulture)

Rabi 2021-22

1. **Title of On farm trial : Effect of micronutrient on yield and quality improvement of Mango.**

2. Problem diagnose: Dificenecy of micronutrienet like Zn, Boron, contributing towards poor yield and quality of Mango.

3. Details of technologies selected for assessment/refinement:

FP : FYM 10 kg per tree + urea 0.5 kg per plant (06 year old)

TO_1 : RDF (0.6 : 0.6 : 0.36 kg NPK/plant) (06 years old)+ 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% boric acid (just before flowering and marble stage)

TO_2 : RDF (0.6 : 0.6 : 0.36 kg NPK/plant) + 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% copper sulphate + 0.1% boric acid (just before flowering and marble stage)

Design: **RBD**
Replication: **07**

4. Source of Technology: ICAR-AICRP Fruit

5. Production system and thematic area : Fruit based production system and Integrated Nutrient Management

6. Performance of the Technology with performance indicators:

Table – Effect of micronutrient on yield and quality improvement of Mango.

Technology option	No. of replication	Data related problem addressed			Fruit yield (t/ha)	Quality TSS (Brix)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		No. of fruit/ panicle	No. of fruit set/ panicle	Fruit weight (gm)						
FP : FYM 10 kg per tree + urea 0.5 kg per plant (06 year old)	07	55.42	2.0	200.57	10.58	19.28	65500	211600	146100	3.23
TO_1: RDF (0.6 : 0.6 : 0.36 kg NPK/plant) (06 years old)+ 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% boric acid (just before flowering and marble stage)		64.71	3.57	225.71	15.02	22.14	71500	300400	228900	4.20

Technology option	No. of replication	Data related problem addressed			Fruit yield (t/ha)	Quality TSS (Brix)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		No. of fruit/ panicle	No. of fruit set/ panicle	Fruit weight (gm)						
TO_2: RDF (0.6 : 0.6 : 0.36 kg NPK/plant) + 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% copper sulphate + 0.1% boric acid (just before flowering and marble stage)		71.14	4.57	254.57	17.30	23.57	73500	346000	272500	4.70
SEm+					**0.35**					
CD(P=0.05)					**1.08**					

7. Final recommendation for micro level situation:

The trial was conducted on farmers' field in village Shivrajpur & Kurag (Ghaghra block) and among 7 farmer's field on 21 Mango plants of variety "Amrapali". All selected fruit tree was of the age 7-8 years. Trial was conducted with an objective to find out the effectiveness of fertilizer combination along with micronutrients on fruit setting, fruit weight, yield and TSS. The dats observed during the trial clearly indicated that Technological option 2 i'e RDF (0.6 : 0.6 : 0.36 kg NPK/plant) + 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% copper sulphate + 0.1% boric acid (just before flowering and marble stage) yielded maximum no. of fruit setting/ Panicle (4.57), fruit weight (254.57 gm), Fruit Yield (17.30 t/ha) and TSS (Brix) 23.57. The highest net income (Rs 272500/ha) and B:C ratio (4.70) was also observed in TO_2.

Hence TO_2 is being recommended for large area popularization.

8. Constraints identified and feedback for research:

- Farmers were not interested to apply such combination because they feel it is tedious to apply.
- Complete combination of fertilizer should be developed for easy access.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. Regular follow up
3. Field day
4. Result of treatment was very encouraging

.

Thematic area: Fruit based and INM

Problem definition: : Dificenecy of micronutrienet like Zn, Boron, Boron cntributing towards poor yield and quality of Mango.

Table – Effect of micronutrient on yield and quality improvement of Mango.

Technology option	No. of replication	Yield (t/ha)	Net Return (Rs / ha)
FP : FYM 10 kg per tree + urea 0.5 kg per plant (06 year old)	07	10.58	146100.00
TO_1: RDF (0.6 : 0.6 : 0.36 kg NPK/plant) (06 years old)+ 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% boric acid (just before flowering and marble stage)		15.02	228900.00
TO_2: RDF (0.6 : 0.6 : 0.36 kg NPK/plant) + 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% copper sulphate + 0.1% boric acid (just before flowering and marble stage)		17.30	272500.00
SEm+		**0.35**	
CD(P=0.05)		**1.08**	

Results:

The trial was conducted on farmers' field in village Shivrajpur & Kurag (Ghaghra block) and among 7 farmer's field on 21 Mango plants of variety "Amrapali". All selected fruit tree was of the age 7-8 years. Trial was conducted with an objective to find out the effectiveness of fertilizer combination along with micronutrients on fruit setting, fruit weight, yield and TSS. The dats observed during the trial clearly indicated that Technological option 2 i'e RDF (0.6 : 0.6 : 0.36 kg NPK/plant) + 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar spray of 0.2% zinc sulphate + 0.1% copper sulphate + 0.1% boric acid (just before flowering and marble stage) yielded maximum no. of fruit setting/ Panicle (4.57), fruit weight (254.57 gm), Fruit Yield (17.30 t/ha) and TSS (Brix) 23.57. The highest net income (Rs 272500/ha) and B:C ratio (4.70) was also observed in TO_2.

Hence TO_2 is being recommended for large area popularization.

OFT- 05

(Plant Protection)

Rabi 2022

1. **Title of On farm trial : Management of Mango hopper.**

2. Problem diagnose : Mango yield loss due to infestation of mango hopper

3. Details of technologies selected for assessment/refinement:

FP : Application Thiamethoxam 25 WG@ 250 gm/ha at fruit set stage.

TO_1 : Spray of Imidaclorprid 17.8 SL @ 500 ml/ha at panicle formation stage and Thiamethoxam 25 % WG @ 250 gm/ha at fruit set stage.

TO_2 : Spray of Spinosad @ 200 ml/ha at panicle formation stage, and second spray of Imidacloprid 17.8 SL @ 500 ml/ha before flowering and Acetamiprid 20 *SP* @ 500 gm/ha fruit set stage (Pea stage).

Design: **RBD**
Replication: **10**

4. Source of Technology: CISH, Lucknow, BAU Sabour and KAU, Karnataka

5. Production system and thematic area : Mango based production system and IPM

6. Performance of the Technology with performance indicators:

Table – Management of Mango hopper.

Technology option	No. of replication	Data related problem addressed				Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		% Yield loss	No. of Nymph/ panicle at panicle formation stage	No. of nymph/ panicle at 7 days after last spray	Yield / tree (in kg)					
FP : Application Thiamethoxam 25 WG@ 250 gm/ha at fruit set stage	**10**	43.57	21.36	20.30	18.95	75.30	51000	113700	62700	2.23
TO_1 : Spray of Imidaclorprid 17.8 SL @ 500 ml/ha at panicle formation stage and Thiamethoxam 25 % WG @ 250 gm/ha at fruit set stage		12.44	20.33	5.90	29.50	118.00	54000	162000	108000	3.00

Technology option	No. of replication	Data related problem addressed				Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		% Yield loss	No. of Nymph/ panicle at panicle formation stage	No. of nymph/ panicle at 7 days after last spray	Yield / tree (in kg)					
TO_2 : Spray of Spinosad @ 200 ml/ha at panicle formation stage, and second spray of Imidacloprid 17.8 SL @ 500 ml/ha before flowering and Acetamiprid 20 *SP* @ 500 gm/ha fruit set stage (Pea stage)		-	20.96	2.83	34.14	136.58	57590	204900	147310	3.52
SEm+										
CD(P=0.05)										

7. Final recommendation for micro level situation:

On farm trial was conducted in three villages namely Belagarha, Gunia and Langratanr of Ghaghra and Bishunpur block on on 90 Mango plants (Variety- Amrapali) among 10 farmers. Altogether 90 mango plants were taken for trial and treatment applied on 09 mango plants of each farmer during Rabi season 2022-23. Treatment scheduled applied from Jan 22 i'e Panicle formation stage and end with fruit setting stage (Feb 22). The data recorded during the trial clearly indicated that technology option 2 yielded the maximum fruit yield (136.58 q/ha), net income (Rs. 47310/ha) and B:C ratio (3.56) Percent yield loss was maximum in FP (43.57) and in case of TO_1 the loss was 12.44 percent.

Hence TO_2 i'e Spray of Spinosad @ 200 ml/ha at panicle formation stage, and second spray of Imidacloprid 17.8 SL @ 500 ml/ha before flowering and Acetamiprid 20 SP @ 500 gm/ha fruit set stage (Pea stage) is being recommended for better management of Mango hopper.

8. Constraints identified and feedback for research:

- Lack of awareness about commercial Mango farming and their management practices.
- More no. of awareness cum skill training is required for better fruit harvest.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. Awareness and skilling in Mango orchard management through field training.
3. By seeing the result of orchard management in term of fruit yield and income. Farmers' of adjoin villages was highly impressive.

Thematic area: Intercropping

Problem definition: : Mango yield loss due to mango hopper.

Table – Management of Mango hopper.

Technology option	No. of replication	Yield (q/ha)	Net Return (Rs / ha)
FP : Application Thiamethoxam 25 WG@ 250 gm/ha at fruit set stage	10	75.30	62700.00
TO_1 : Spray of Imidaclorprid 17.8 SL @ 500 ml/ha at panicle formation stage and Thiamethoxam 25 % WG @ 250 gm/ha at fruit set stage		118.0	108000.00
TO_2 : Spray of Spinosad @ 200 ml/ha at panicle formation stage, and second spray of Imidacloprid 17.8 SL @ 500 ml/ha before flowering and Acetamiprid 20 *SP* @ 500 gm/ha fruit set stage (Pea stage)		136.58	147310.00
SEm±			
CD(P=0.05)			

Results:

On farm trial was conducted in three villages namely Belagarha, Gunia and Langratanr of Ghaghra and Bishunpur block on on 90 Mango plants (Variety- Amrapali) among 10 farmers. Altogether 90 mango plants were taken for trial and treatment applied on 09 mango plants of each farmer during Rabi season 2022-23. Treatment scheduled applied from Jan 22 i'e Panicle formation stage and end with fruit setting stage (Feb 22). The data recorded during the trial clearly indicated that technology option 2 yielded the maximum fruit yield (136.58 q/ha), net income (Rs. 47310/ha) and B:C ratio (3.56) Percent yield loss was maximum in FP (43.57) and in case of TO_1 the loss was 12.44 percent.

Hence TO_2 i'e Spray of Spinosad @ 200 ml/ha at panicle formation stage, and second spray of Imidacloprid 17.8 SL @ 500 ml/ha before flowering and Acetamiprid 20 SP @ 500 gm/ha fruit set stage (Pea stage) is being recommended for better management of Mango hopper.

OFT- 06

(Agriculture Engineering)
Kharif (2022)

1. **Title of On farm trial : To assess the performance of different types of cost effective weeding methods of paddy in Kharif .**

2. Problem diagnose : Traditional weeding method of paddy resulted high cost of cultivation

3. Details of technologies selected for assessment/refinement:

FP : Hand weeding

TO_1 : Cono weeder (Hand Push)

TO_2 : Power weeder

Design: **RBD**
Replication: **10**

4. Source of Technology: **TNAU Coimbatore**

5. Production system and thematic area : Rice based production system and Farm mechanization

6. Performance of the Technology with performance indicators:

Table – Assessment of the performance of different types of cost effsctive weeding methods of paddy in Kharif.

Technology option	No. of replication	Yield components			No. of effective tiller/plant	Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		Plant …….	Weed control efficiency (%)	Dry weight of weed in gm/m^2						
FP : Hand weeding	**10**		-	12.77	6.59	27.73	42353	56569	14216	1.33
TO_1 : Cono weeder (Hand Push)			19.34	10.70	8.83	29.06	38403	59282	20879	1.54
TO_2 : Power weeder			58.43	8.06	10.06	30.76	37803	62750	24947	1.65
SEm+						**0.57**				
CD(P=0.05)						**1.70**				

7. Final recommendation for micro level situation:

The experiment was conducted during kharif 2022 on rice (var-Sahbhagidhan) in two villages namely Nawadih and Kashitoli of Gumla block among 10 farmer's field with an objective to assess the performance of different weeding practices in minimizing the cost and maximizing the yield and income collected during the trial clearly indicated that Technology option 2 Use of Power weeder resulted in maximum weed control efficiency (58.00) and minimum dry weight infestation (8.06 q/m2) and also yielded maximum yield (30.76 q/ha), net return (Rs 24947/ha) and B:C ratio (1:65). Which is significantly superior over FP and TO_1.

Hence Technology option 2 i'e use of Power weeder is being recommended for cost effective weed management practices in paddy during Kharif.

8. Constraints identified and feedback for research:

- Unavailability of power weeder
- Lack of proper knowledge and skilling in operationalization of power weeder.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. Regular field visit and feedback
3. By seeing the performance of power weeder farmer's showed their interest and happiness.

Thematic area: Farm Mechanization

Problem definition: : Traditional weeding method of paddy resulted high cost of cultivation.

Table – Assessment of the performance of different types of cost effsctive weeding methods of paddy in Kharif.

Technology option	No. of replication	Yield (q/ha)	Net Return (Rs / ha)
FP : Hand weeding	10	27.73	14216.00
TO_1 : Cono weeder (Hand Push)		29.06	20879.00
TO_2 : Power weeder		30.76	24947.00
SEm±		**0.57**	
CD(P=0.05)		**1.70**	

Results:

The experiment was conducted during kharif 2022 on rice (var-Sahbhagidhan) in two villages namely Nawadih and Kashitoli of Gumla block among 10 farmer's field with an objective to assess the performance of different weeding practices in minimizing the cost and maximizing the yield and income collected during the trial clearly indicated that Technology option 2 Use of Power weeder resulted in maximum weed control efficiency (58.00) and minimum dry weight infestation (8.06 q/m2) and also yielded maximum yield (30.76 q/ha), net return (Rs 24947/ha) and B:C ratio (1:65). Which is significantly superior over FP and TO_1.

Hence Technology option 2 i'e use of Power weeder is being recommended for cost effective weed management practices in paddy during Kharif.

OFT- 07

(Agriculture Engineering)
Rabi (2022-23)

1. **Title of On farm trial : Evaluation of irrigation water saving technique in cauliflower during rabi season.**

2. Problem diagnose : More no. of irrigation and bed making resulted in high cost of cultivation.

3. Details of technologies selected for assessment/refinement:

FP : Ridge furrow (Single plant)

TO_1 : Ridge bed 60 x 20 cm (Triple plant in each line)

TO_2 : Ridge bed 30 x 20 cm (Double plant)

Design: **RBD**
Replication: **10**

4. Source of Technology: TNAU Coimbatore

5. Production system and thematic area : Vegetable based production system and Soil & water conservation

6. Performance of the Technology with performance indicators:

Table – Evaluation of irrigation water saving technique in cauliflower during rabi season.

Technology option	No. of replication	Yield components		Yield (q/ha)	Cost of cultivation (Rs./ha)	Gross income (Rs./ha)	Net income (Rs / ha)	BC Ratio
		No of Irrigation	Water saving (%)					
FP : Ridge furrow (Single plant)	**10**		-	156.64	61700	15640	94940	1.65
TO_1 : Ridge bed 60 x 20 cm (Triple plant in each line)			19.34	182.30	65220	182300	121080	2.98
TO_2 : Ridge bed 30 x 20 cm (Double plant)			58.43	169.74	59800	169740	109940	2.83
SEm±				**3.71**				
CD(P=0.05)				**11.83**				

7. Final recommendation for micro level situation:

The On farm trial was conducted at 10 farmers field in village Simal bartoli (Chainpur), Kurag (Ghaghra), Silam (Raidih) and Hesrag (Bishunpur) during Rabi 2022 on Cauliflower (Variety-Barkha) with an objective to find out the suitable economical irrigation practices to reduce the irrigation cost and maximize the yield and income. The data observed during the trial clearly indicated t Technology option 1 i'e Ridge bed 60 x 20 cm (Triple plant in each line) required less no. of irrigation (9.63 no.) and gave maximum yield (182.30 q/ha), net income (Rs 121080/ha) and B:C ratio (2.98). Which was significantly superior over FP and TO_2.

Hence Technology option 1 i'e Ridge bed 60 x 20 cm (Triple plant in each line) is being recommended for cost effective irrigation techniques in cauliflower.

8. Constraints identified and feedback for research:

- To convince farmers for practicising the technological option was difficult.
- Lack of ridge bed forming machine.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. Motivation
3. Field day
4. Farmers' reaction towards the demonstrated technology was very satisfactory.

Thematic area: Soil & water conservation

Problem definition: : Traditional weeding method of paddy resulted high cost of cultivation.

Table – Evaluation of irrigation water saving technique in cauliflower during rabi season.

Technology option	No. of replication	Yield (q/ha)	Net Return (Rs / ha)
FP : Ridge furrow (Single plant)	10	156.64	94940.00
TO_1 : Ridge bed 60 x 20 cm (Triple plant in each line)		182.30	121080.00
TO_2 : Ridge bed 30 x 20 cm (Double plant)		169.74	109940.00
SEm±		**3.71**	
CD(P=0.05)		**11.83**	

Results:

The On farm trial was conducted at 10 farmers field in village Simal bartoli (Chainpur), Kurag (Ghaghra), Silam (Raidih) and Hesrag (Bishunpur) during Rabi 2022 on Cauliflower (Variety-Barkha) with an objective to find out the suitable economical irrigation practices to reduce the irrigation cost and maximize the yield and income. The data observed during the trial clearly indicated t Technology option 1 i'e Ridge bed 60 x 20 cm (Triple plant in each line) required less no. of irrigation (9.63 no.) and gave maximum yield (182.30 q/ha), net income (Rs 121080/ha) and B:C ratio (2.98). Which was significantly superior over FP and TO_2.

Hence Technology option 1 i'e Ridge bed 60 x 20 cm (Triple plant in each line) is being recommended for cost effective irrigation techniques in cauliflower.

OFT- 08

(Animal Science)
Rabi (2021-22)

1. **Title of On farm trial : Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle**

2. Problem diagnose: Postpartum infertility in cattle.

3. Details of technologies selected for assessment/refinement :

FP : Dewormer + Mineral Mixture @ 50 gm/day

TO_1 : FP + Inorganic Phosphorus Inj. + Vitamin AD_3E Inj. @ 10 ml alternate day + Micro minerals 1 Bolus for 28 days

TO_2 : FP + TOI + GnRH Inj. @ 5 ml st the time of AI.

Design: RBD

Replication : 10

4. Source of Technology: BVC Patna

5. Production system and thematic area : Semi Intensive & Disease management

6. Performance of the Technology with performance indicators :

Table – Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle

Technology option	No. of replication	No. of animal came in heat	No. of animal pregnent	Oestrus response (%)
FP : Dewormer + Mineral Mixture @ 50 gm/day	10	04	03	75
TO_1 : FP + Inorganic Phosphorus Inj. + Vitamin AD3E Inj. @ 10 ml alternate day + Micro minerals 1 Bolus for 28 days		08	07	87.50
TO_2 : FP + TOI + GnRH Inj. @ 5 ml st the time of AI		09	08	88.88

7. Final recommendation for micro level situation:

The trial was conducted on 30 cows of cross breed in village Nawagarh serka, Chatti serka & Serka of Bishunpur block among 10 farmers field during 2021-22 to find out the suitable combination of hormone (GnRH) and Mineral mixture supplement for improving post partum anestrus in cattle. Data observed during the trial reveals that Technology option 2 i'e use of dewormer + Mineral mixture, Bolus for 28 days, GnRH inj. @ 5 ml at the time of AI is more beneficial as compared to farmers practice and TO_2 . In terms of bringing heat (probability of breeding) and conception.

8. Constraints identified and feedback for research:

- Knowledge gap
- Difficulties in accessing the animal hospital/ Doctor.

9. Process of farmers participation and their reaction:

1. Participatory and interactive
2. On field training
3. Regular field visit and feedback

Thematic area: Disease Management

Problem definition: Postpartum infertility in cattle.

Technology assessed: Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle

Table – Comparative assessment of hormone (GnRH) and mineral mixture supplement for improving postpartum anestrus in cattle

Technology option	No. of replication	No. of animal came in heat	No. of animal pregnent	Oestrus response (%)
FP : Dewormer + Mineral Mixture @ 50 gm/day	10	04	03	75
TO_1 : FP + Inorganic Phosphorus Inj. + Vitamin AD3E Inj. @ 10 ml alternate day + Micro minerals 1 Bolus for 28 days		08	07	87.50
TO_2 : FP + TOI + GnRH Inj. @ 5 ml st the time of AI		09	08	88.88

Results: :

The trial was conducted on 30 cows of cross breed in village Nawagarh serka, Chatti serka & Serka of Bishunpur block among 10 farmers field during 2021-22 to find out the suitable combination of hormone (GnRH) and Mineral mixture supplement for improving post partum anestrus in cattle. Data observed during the trial reveals that Technology option 2 i'e use of dewormer + Mineral mixture, Bolus for 28 days, GnRH inj. @ 5 ml at the time of AI is more beneficial as compared to farmers practice and TO_2 . In terms of bringing heat (probability of breeding) and conception.

OFT-09

(Home Science)
Rabi 2020-21

1. **Title of On farm trial : Assessment of maize and ragi based weaning food to overcome malnutrition among children.**

2. Problem diagnose: Prevalence of malnutrition among children < 5 years in Gumla District because of lack of knowledge about locally nutritional rich foods. (Source: POSHAN Led by IFPRI).

3. Details of technologies selected for assessment/refinement:

FP : Inadequate dietary pattern and unbalanced intake of nutrients

TO_1 : Roasted maize flour (50 gm)+ roasted green gram flour (25 gm) + roasted groundnut (10 gm)+ sugar (15 gm) + 1/2 cup milk

TO_2 : Roasted Ragi flour (50gm) + roasted green gram (25 gm)+ roasted groundnut (10gm)+ sugar (15gm)+1/2 cup milk.

Design: **RBD**

Replication: **10**

4. Source of Technology: AICRP, Directorate of Maize Research, ICAR

5. Production system and thematic area: Complimentary food for children (3 to 5 years), Nutrition Education, Value Addition

6. Performance of the Technology with performance indicators:

Table 1: Nutritive value of weaning mixtures per (100gm)

S. No	Technology Option	Protein (g)	Energy (Kcal)	Calcium (mg)
1	Roasted maize flour (50 gm)+ roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	**34.45**	**827.5**	**103.5**
2	Roasted Ragi flour (50gm) + roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	**28.6**	**820.5**	**270.5**

Table 2: Assessment of maize and ragi based weaning mixture on the basis of technical parameters

Technology Option		No. of respondents	Organoleptic parameters			Height (cm)		Weight (Kg)		MUAC (cm)	
			Taste (%)	Colour (%)	Acceptability (%)	Before	After	Before	After	Before	After
FP	Inadequate dietary pattern and unbalanced intake of nutrients.	5	30	40	50	103.52	104.86	15.24	15.86	12.92	12.96
TO_1	Roasted maize flour (50 gm)+ roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	60	70	65.2	103.59	105.06	14.54	15.62	12.98	13.26
TO_2	Roasted Ragi flour (50gm) + roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	75.2	73.6	82	103.12	106.55	14.04	16.82	12.96	13.62

Table 3: Assessment of maize and ragi based weaning food on the basis of economical parameters

Technology Option		No. of respondents	Cost of cultivation Rs/kg	Gross return (Rs /Kg)	Net Return (Rs /Kg)	BC ratio
FP	Inadequate dietary pattern and unbalanced intake of nutrients.	5	45	75	30	1.6
TO_1	Roasted maize flour (50 gm)+ roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	90	170	80	1.8
TO_2	Roasted Ragi flour (50gm) + roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	93	180	87	1.93

7. Final recommendation for micro level situation:

The trial on Assessment of maize and ragi based weaning food to overcome malnutrition among children was conducted in Banari and Serka villages of Bishunpur block in the month of January 2021. This trial was conducted for 6 months and selection of children was done on the basis of height, weight and MUAC of Children. Among selected 15 children those 5 children whose height and weight were found less in comparision to other children were provided ragi based weaning mixture and other five children were given maize based weaning mixture. Height and weight of these selected children were taken after six months oof weaning mixture and accordingly data were recorded and analysed. Children of age group (3 to 5 years) liked the ragi weaning mixture more than maize weaning mixture and their mothers also preferred. In case of height, weight and MUAC of the children after providing weaning mixtures for six months, T 3 showed good response. The Technology option 3 was found more remunerative and nutritive by the farm women because of its acceptability and profitability It is recommended that Ragi based weaning mixture is nutritious for children's growth and should be promoted among farm women for income generation.

8. Constraints identified and feedback for research:

- Unawareness towards nutritional importance of locally available nutri- cereals.

9. Process of farmers participation and their reaction:

1. Farm women were easily learned and adopted this weaning food for children which is made from locally available crops.

Thematic area: Value addition

Problem definition: Prevalence of malnutrition among children < 5 years in Gumla District because of lack of knowledge about locally nutritional rich foods. (Source: POSHAN Led by IFPRI).

Table – Assessment of maize and ragi based weaning food to overcome malnutrition among children.

Table 1: Nutritive value of weaning mixtures per (100gm)

S. No	Technology Option	Protein (g)	Energy (Kcal)	Calcium (mg)
1	Roasted maize flour (50 gm)+ roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	**34.45**	**827.5**	**103.5**
2	Roasted Ragi flour (50gm) + roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	**28.6**	**820.5**	**270.5**

Table 2: Assessment of maize and ragi based weaning mixture on the basis of technical parameters

Technology Option		No. of respondents	Organoleptic parameters			Height (cm)		Weight (Kg)		MUAC (cm)	
			Taste (%)	Colour (%)	Acceptability (%)	Before	After	Before	After	Before	After
FP	Inadequate dietary pattern and unbalanced intake of nutrients.	5	30	40	50	103.52	104.86	15.24	15.86	12.92	12.96
TO_1	Roasted maize flour (50 gm)+ roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	60	70	65.2	103.59	105.06	14.54	15.62	12.98	13.26
TO_2	Roasted Ragi flour (50gm) + roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	75.2	73.6	82	103.12	106.55	14.04	16.82	12.96	13.62

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Technology Option		No. of respondents	Cost of cultivation Rs/kg	Gross return (Rs /Kg)	Net Return (Rs /Kg)	BC ratio
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TO_1	Roasted maize flour (50 gm)+ roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	90	170	80	1.8
TO_2	Roasted Ragi flour (50gm) + roasted green gram flour (25gm) + roasted groundnut (10gm) + sugar 15 gm +with ½ cup milk	5	93	180	87	1.93

Results:

The trial on Assessment of maize and ragi based weaning food to overcome malnutrition among children was conducted in Banari and Serka villages of Bishunpur block in the month of January 2021. This trial was conducted for 6 months and selections of children were done on the basis of height, weight and MUAC of Children. Among selected 15 children those 5 children whose height and weight were found less in comparision to other children were provided ragi based weaning mixture and other five children were given maize based weaning mixture. Height and weight of these selected children were taken after six months oof weaning mixture and accordingly data were recorded and analysed. Children of age group (3 to 5 years) liked the ragi weaning mixture more than maize weaning mixture and their mothers also preferred. In case of height, weight and MUAC of the children after providing weaning mixtures for six months, T 3 showed good response. The Technology option 3 was found more remunerative and nutritive by the farm women because of its acceptability and profitability It is recommended that Ragi based weaning mixture is nutritious for children's growth and should be promoted among farm women for income generation.

OFT-10

(Home Science)

Rabi 2020-21

1. **Title of On farm trial:** Prevalence of Anemia among adolescent girls (15-18 years)**.**

2. Problem diagnose:
- Lack of knowledge about nutritional foods
- Poor socio economic conditions
- Low Hb level.

3. Details of technologies selected for assessment/refinement:

FP : Traditional Practice (Existing Dietary Pattern)

TO_1 : Roasted soyabean (50 gm) +100 gm rice flakes/day with existing dietary system.

TO_2 : Iron tablet/day+ Roasted soyabean (50 mg) +100 gm rice flakes/day with existing dietary system.

Design: **RBD**

Replication: **10**

4. Source of Technology: BAU Ranchi

5. Production system and thematic area : Rice based production system and Vaule addition

6. Performance of the Technology with performance indicators:

Table 1: Nutritive value of iron rich diet

S. no	Technology Option	Iron (mg)	Protein (g)	Energy (Kcal)	Calcium (mg)
1	Roasted soyabean (50 gm) +100 gm rice flakes/day with existing dietary system.	**25.2**	**28.2**	**562**	**140**
2	Iron tablet/day+ Roasted soyabean (50 mg) +100 gm rice flakes/day with existing dietary system.	**55.2**	**28.2**	**562**	**140**

Table 2: Assessment of weight and hemoglobin according to technology option

Technology Option		No. of respondents	Weight (Kg)		Haemoglobin (gm)	
			Before	After	Before	After
F P	Traditional Practice (Existing Dietary Pattern)	5	40.96	40.96	10.8	11.1
TO_1	Roasted soyabean (50 gm) +100 gm rice flakes/day with existing dietary system.	5	43.55	44.62	9.8	11.8
TO_2	Iron tablet/day+ Roasted soyabean (50 mg) +100 gm rice flakes/day with existing dietary system.	5	45.98	48.1	8.32	12.06

7. Final recommendation for micro level situation:

The trial was conducted in Bishunpur village of Bishunpur block in the month of February and this trial was carried for 6 months. Under this trial weight and Hemoglobin of 15 aadolscent girls were recorded before and after feeding of diet given under farmers practice. Technology option 1

and technology option 2 respectively . On the basis of observed weight and hemoglobin of adolescent girls, 5 girls were given diet accordingly TO_1 and 5 girls were gien diet according to TO_2 and data were recorded and analysed after six months of this trial.

It was found that weight and haemoglobin of adolescent girls of age group (15-18 years) were increased more under TO_2 (Iron tablet/day + 50 mg roasted soyabean + 100 gm rice flakes/day with existing dietary system) in their diet after six months of practices. It is recommended that soyabean and iron tablets should be included in the diet of adolescent girls

8. Constraints identified and feedback for research:

- Unawareness towards nutritional importance of locally available nutri cereals..

9. Process of farmers participation and their reaction:

1. Respondents were easily learned and adopted soybean, rice flakes and iron tablets in their diet.

Thematic area: Value addition

Problem definition: **1.** Lack of knowledge about nutritional foods
2. Poor socio economic conditions
3.Low Hb level.

Table 1: Nutritive value of iron rich diet

S. no	Technology Option	Iron (mg)	Protein (g)	Energy (Kcal)	Calcium (mg)
1	Roasted soyabean (50 gm) +100 gm rice flakes/day with existing dietary system.	**25.2**	**28.2**	**562**	**140**
2	Iron tablet/day+ Roasted soyabean (50 mg) +100 gm rice flakes/day with existing dietary system.	**55.2**	**28.2**	**562**	**140**

Table 2: Assessment of weight and hemoglobin according to technology option

Technology Option		No. of respondents	Weight (Kg)		Haemoglobin (gm)	
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F P	Traditional Practice (Existing Dietary Pattern)	5	40.96	40.96	10.8	11.1
TO_1	Roasted soyabean (50 gm) +100 gm rice flakes/day with existing dietary system.	5	43.55	44.62	9.8	11.8
TO_2	Iron tablet/day+ Roasted soyabean (50 mg) +100 gm rice flakes/day with existing dietary system.	5	45.98	48.1	8.32	12.06

Results:

The trial was conducted in Bishunpur village of Bishunpur block in the month of February and this trial was carried for 6 months. Under this trial weight and Hemoglobin of 15 aadolscent girls were recorded before and after feeding of diet given under farmers practice. Technology option 1 and technology option 2 respectively. On the basis of observed weight and hemoglobin of adolescent girls, 5 girls were given diet accordingly TO_1 and 5 girls were gien diet according to TO_2 and data were recorded and analysed after six months of this trial.

It was found that weight and haemoglobin of adolescent girls of age group (15-18 years) were increased more under TO_2 (Iron tablet/day + 50 mg roasted soyabean + 100 gm rice flakes/day with existing dietary system) in their diet after six months of practices. It is recommended that soyabean and iron tablets should be included in the diet of adolescent girls.

3.1.2 Technology Assessed by KVK (Discipline wise)

	Technologies assessed under various crops by KVKs (Crop Production)			
	Thematic areas	**Number of the technologies (Technology Interventions)**	**No. of trials**	**No. of Locations**
1	Integrated Nutrient Management	6	2	5
2	Hormonal management			
3	Integrated Pest Management	3	1	3
4	Integrated Crop Management			
5	Micro nutrient Management	6	2	5
6	Small Scale Income Generation Enterprises			
7	Weed Management	3	1	2
8	Resource Conservation Technology	3	1	4
9	Farm Machineries			
10	Integrated Farming System			
11	Seed / Plant production			
12	Post Harvest Technology / Value addition	3	1	2
13	Child health management	3	1	1
14	Storage Technique			
15	Others (Pl. specify)			
16	Cropping Systems			
17	Farm Mechanization			
18	Others			
	Total	**26**	**9**	**22**
	Technologies assessed under livestock by KVKs			
	Thematic areas	**No. of technologies (Technology Interventions)**	**No. of trials**	**No. of locations**
1	Disease Management	3	1	3
2	Evaluation of Breeds			
3	Feed and Fodder management			
4	Nutrition Management			
5	Production and Management			
6	Processing and value addition			
7	Others (Pl. specify)			
	Total	**3**	**1**	**3**
	T**echnologies assessed under various enterprises by KVKs**			
	Thematic areas	No. of technologies (Technology Interventions)	No. of trials	No. of locations
1	Drudgery reduction			
2	Entrepreneurship Development			
3	Health and nutrition			
4	Processing and value addition			

5	Energy conservation			
6	Small-scale income generation			
7	Storage techniques			
8	Household food security			
9	Organic farming			
10	Agroforestry management			
11	Mechanization			
12	Resource conservation technology			
13	Value Addition			
14	Others			
	Total	**0**	**0**	**0**
	T**echnologies assessed under various enterprises for women empowerment**			
	Thematic areas	**No. of technologies (Technology Interventions)**	**No. of trials**	**No. of locations**
1	Drudgery Reduction			
2	Entrepreneurship Development			
3	Health and Nutrition			
4	Value Addition			
5	Others			
	Total	**0**	**0**	**0**

3.2 Achievements of Frontline Demonstrations

A. Details of FLDs conducted during the year January to December 2022

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	
Rabi 2022															
1	Wheat	INM	Variety- HD 2967 with lime	0.4	0.4	0	0	1	0	0	0	1	0	**01**	
Vegetable (Rabi 2022)															
2	Bottle Gourd	ICM	Variety- Anokhi	1.0	1.0	0	0	4	3	0	0	4	3	**07**	
3	Cow Pea	ICM	Variety- Ketki	0.4	0.4	0	0	5	2	0	0	5	2	**07**	
4	Okra	ICM	Variety- Anukranti	1.0	1.0	0	0	7	0	0	0	7	0	**07**	
Pulses (Summer 2022)															
5	Moong	ICM	Variety- IPM 205-07	2.0	2.13	0	0	10	0	3	0	13	0	**13**	
Cereals (Kharif 2022)															
6	Ragi	ICM	Variety- Birsa Maduwa-3	16.0	16	0	0	51	25	4	1	55	26	**81**	
7	Maize	ICM	Variety- Suwan-1	1.0	1.0	0	0	12	6	1	0	13	6	**19**	
8	Aerobic Rice	ICM	Variety-Anjali with Broadcasting method	5.0	5.0	0	0	24	0	0	0	24	0	**24**	
9	Paddy	ICM	Variety- Swarna Shreya	2.0	2.0	0	0	7	0	0	0	7	0	**07**	
10	Aerobic Rice	ICM	Variety-Anjali with Line sowing	1.0	1.0	0	0	1	1	0	0	1	1	**02**	
Vegetable															
11	Tomato	ICM	Variety-Swarna Sampada	2.0	2.0	1	0	1	2	1	0	3	2	**05**	
Cereals (Rabi 22)															
12	Wheat	ICM	Variety-DBW-187	4.0	2.48	0	0	6	1	0	0	6	1	**07**	
13	Wheat	ICM	Variety-Sabour Nirjal		1.02	0	0	4	0	0	0	4	0	**04**	
	Oilseeds														
14	Mustard	ICM	Variety-PM-30 with Zero tillage		1.0	0	0	1	0	0	0	1	0	**01**	
Organic rice Demonstration															
15	Paddy	ICM	Variety-Rajendra Mansuri	4.5	4.5	0	0	15	4	0	0	15	4	**19**	
16	Paddy	ICM	Variety-Kalajeera	3.0	3.0	0	0	4	1	1	0	5	1	**06**	
17	Paddy	ICM	Variety-Jeeraphool	11.5	11.5	0	0	19	6	0	0	19	6	**25**	
18	Paddy	ICM	Variety-Bhutku	6.0	6.0	0	0	12	6	0	0	12	6	**18**	
Natural Farming Demonstration															
19	Paddy		Variety-Kalajeera	17.5	17.5	0	0	26	0	4	0	30	0	**30**	

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	
TSP Demonstration															
20	Papaya		Variety-Ranchi Papaya		0.4	0	0	17	0	0	0	17	0	**17**	
Forage demonstration															
21	Rice bean	ICM	Variety-Vidhan-2	4.0	4.0	2	1	8	6	18	5	28	12	**40**	
22	Maize	ICM	Variety-J-1006	3.0	3.0	0	0	0	0	25	5	25	5	**30**	
Cluster Frontline Demonstration (Kharif Oilseeds 2022)															
23	Groundnut	ICM	Variety –TG-51	10	3.0	0	0	1	5	0	1	1	6	**07**	
24	Groundnut	ICM	Component demonstration (Sulphur+Tebuconazole)		7.0	2	0	2	0	12	0	16	0	**16**	
25	Sesame	ICM	Variety –Subhra	20	8.30	0	0	9	3	2	0	11	3	**14**	
26	Sesame	ICM	Variety-RT-346		11.70	1	0	14	3	2	0	17	3	**20**	
27	Niger	ICM	Variety –Birsa niger-1	20	20.0	0	0	22	0	12	2	34	2	**36**	
Cluster Frontline Demonstration (Rabi Oilseed 2022)															
28	Mustard	ICM	Variety-PM 30 with varmicompost and zyme	40	40	0	0	38	11	15	3	53	14	**67**	
29	Linseed	ICM	Variety-JLS 95 with varmicompost and zyme	10	10	0	0	16	29	0	0	16	29	**45**	
Cluster Frontline Demonstration (Kharif Pulses 2022)															
30	Redgram	ICM	Variety-IPA 15-2	20	5.0	1	0	5	6	0	0	6	6	**12**	
31	Redgram	ICM	Variety-Rajeev Lochan		9.25	0	0	14	5	0	0	14	5	**19**	
32	Redgram	ICM	Variety-IPA 203		5.75	0	0	9	0	5	0	14	0	**14**	
33	Blackgram	ICM	Variety-PU-31	20	20.0	0	0	19	3	15	38	34	41	**75**	
Cluster Frontline Demonstration (Rabi Pulses 2022)															
34	Lentil	ICM	Variety-IPL-220 with vermicompost & zyme	20	20.0	0	0	65	58	2	1	67	59	**126**	
AICRP NIGER Demonstration															
35	Niger	ICM	Birsa Niger-3 with whole package	4.0	4.0	0	0	7	3	0	0	7	3	**10**	
36	Niger	ICM	Improve variety Birsa niger-3	2.0	2.0	0	0	5	0	0	0	5	0	**05**	
37	Niger	ICM	Birsa niger-3 with method of sowing	2.0	2.0	0	0	5	0	0	0	5	0	**05**	
38	Niger	ICM	Birsa niger-3 with fertilizer management	2.0	2.0	0	0	5	0	0	0	5	0	**05**	

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	
39	Niger	ICM	Birsa niger-3with weed management		2.0	0	0	5	0	0	0	5	0	**05**	
DRONE Technology Demonstration															
40	Mango	Farm mechanization	Jeevamrit spary with drone		3.5	0	0	5	0	1	0	6	0	**06**	
41	Mango	Farm mechanization	Carbendazim 12% + Mancozeb 63% Spray with Drone		23.12	2	0	4	17	16	8	22	25	**47**	
42	Niger	Farm mechanization	Sulphur Spray with Drone		2.24	0	0	2	0	0	0	2	0	**02**	
43	Redgram	Farm mechanization	Sulphur Spray with Drone		2.0	0	0	1	0	2	0	3	0	**03**	
DRMR Demonstration															
44	Mustard	ICM	Variety-PM-30 with NPK	40.0	40.0	0	0	73	35	0	0	73	35	**108**	
Nutritional Garden Demonstration															
45	Vegetable	Nutritional Garden		0.46	0.46	0	0	0	20	0	0	0	20	**20**	
Natural farming demonstration															
46	Wheat + Chickpea	Natural Farming	Seed + Jeevamruth & Ghanjeevamrut application	3.2	3.2	0	0	7	0	1	0	8	0	**08**	
Women empowerment Demonstration															
47	Mushroom	Mushroom production	Oyester	100 no	100 no	0	0	0	100	0	0	0	100	**100**	
Enterprise															
48	Mushroom	Mushroom production	Oyester	15 no	15 no	0	0	0	15	0	0	0	15	**0**	
49	Composite fish	Fishrey	Rohu, Katla, Mrigal	06 no	06 no	0	0	3	0	1	2	4	2	**06**	
50	Backyard poultry	Poultry farming	Kadaknath	10 no	10 no	0	0	6	3	1	0	7	3	**10**	

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					
Cereals (Rabi 2022)											
Wheat	Rabi 2022	Irrigated	Red Laterite				Paddy				
Vegetables (Summer 2022)											
Bottle Gourd	Summer 2022	Irrigated	Red Laterite				Vegetable, Paddy				
Cow Pea	Summer 2022	Irrigated	Red Laterite				Vegetable, Paddy				
Okra	Summer 2022	Irrigated	Red Laterite				Vegetable, Paddy				
Pulses (Summer 2022)											
Moong	Summer 2022	Irrigated	Red Laterite				Paddy	27/03/22-10/04/22	05-18/06/22		
Cereals (Kharif 2022)											
Ragi	Kharif 2022	Rainfed	Red Laterite				Maize, Niger, Blackgram	20-25/06/22	02-07/11/12		
Maize	Kharif 2022	Rainfed	Red Laterite				Blackgram, Groundnut	25-28/06/22	26-30/09/22		
Aerobic Rice	Kharif 2022	Rainfed	Red Laterite				Blackgram, Ragi, Niger	30-30/06/22	27/09/22-08/10/22		
Paddy	Kharif 2022	Rainfed	Red Laterite				Paddy, Wheat, Maize, Vegetable, Niger, Ragi	25-27/06/22	05-12/11/22		
Aerobic Rice	Kharif 2022	Rainfed	Red Laterite								
Vegetables (Kharif 2022)											
Tomato	Kharif 2022	Rainfed	Red Laterite				Vegetable, Maize	22/07/22-27/07/22	10/10/22-15/10/22		
Cereals (Rabi 2022-23)											
Wheat	Rabi 2022	Irrigated	Red Laterite				Paddy, Maize, Blackgram	06-10/12/22	Crop standing		
Wheat	Rabi 2022	Irrigated	Red Laterite				Paddy, Maize, Blackgram	06-10/12/22	Crop standing		

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					
Oilseeds (Rabi 2022-23)											
Mustard	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Blackgram				
Organic Rice Demonstration											
Paddy	Kharif 2022	Rainfed	Red Laterite				Paddy Vegetable, Wheat				
Paddy	Kharif 2022	Rainfed	Red Laterite				Paddy Vegetable, Wheat				
Paddy	Kharif 2022	Rainfed	Red Laterite				Paddy Vegetable, Wheat				
Natural Farming Demonstration											
Paddy	Kharif 2022	Rainfed	Red Laterite					15-31/07/22	17-22/11/22		
TSP Demonstration											
Papaya	Kharif 2022	Rainfed	Red Laterite								
Forage Demonstration											
Rice Bean	Kharif 2022	Rainfed	Red Laterite				Maize, Blackgram				
Maize	Kharif 2022	Rainfed	Red Laterite				Blackgram, Ragi				
Cluster Demonstration (Oilseeds-Kharif 2022)											
Groundnut	Kharif 2022	Rainfed	Red Laterite				Maize, Blackgram	8-15/8/22	15-20/10/22		
Groundnut	Kharif 2022	Rainfed	Red Laterite				Maize, Blackgram	8-15/8/22	15-20/10/22		
Sesame	Kharif 2022	Rainfed	Red Laterite				Niger, Ragi	8-15/8/22	15-20/10/22		
Sesame	Kharif 2022	Rainfed	Red Laterite				Niger, Ragi	8-15/8/22	15-20/10/22		
Sesame	Kharif 2022	Rainfed	Red Laterite				Niger, Ragi	8-15/8/22	15-20/10/22		
Niger	Kharif 2022	Rainfed	Red Laterite				Blackgram, Gora, Ragi	5-19-09/22	06-20/12/22		
Niger	Kharif 2022	Rainfed	Red Laterite				Blackgram, Gora, Ragi	5-19-09/22	06-18/12/22		
Cluster Demonstration (Oilseeds-Rabi 2022-23)											
Mustard	Rabi 2022-23	Irrigated	Red Laterite				Paddy,	5-28/11/22			

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					
							Blackgram				
Mustard	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Blackgram	5-28/11/22			
Linseed	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Blackgram	15-20/12/22			
Linseed	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Blackgram				
Cluster Demonstration (Pulses-Kharif 2022-23)											
Redgram	Kharif 2022	Rainfed	Red Laterite				Maize, Ragi, Blackgram	7-25/7/22			
Redgram	Kharif 2022	Rainfed	Red Laterite				Maize, Ragi, Blackgram	7-25/7/22			
Redgram	Kharif 2022	Rainfed	Red Laterite				Maize, Ragi, Blackgram	7-25/7/22			
Blackgram	Kharif 2022	Rainfed	Red Laterite				Maize, Ragi, Blackgram	7-25/7/22			
Cluster Demonstration (Pulses-Rabi 2022-23)											
Lentil	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Maize	8-28/11/22			
AICRP Niger Demonstration											
Niger	Kharif 2022	Rainfed	Red Laterite				Ragi, Blackgram, Gora	5-19-09/22	06-18/12/22		
Niger	Kharif 2022	Rainfed	Red Laterite				Ragi, Blackgram, Gora	16-20/09/22	15-18/12/22		
Niger	Kharif 2022	Rainfed	Red Laterite				Ragi, Blackgram, Gora	18-20/09/22	18/12/22		
Niger	Kharif 2022	Rainfed	Red Laterite				Ragi, Blackgram, Gora	05/09/22	02/12/22		
Niger	Kharif 2022	Rainfed	Red Laterite				Ragi, Blackgram, Gora	10-15/09/22	08-13/12		
Drone Technology											
Mango	Kharif 2022	Rainfed	Red Laterite				Vegetable				
Mango	Kharif 2022	Rainfed	Red Laterite				Blackgram				
Niger	Kharif 2022	Rainfed	Red Laterite				Gora, ragi,				

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					
							Blackgram				
Redgram	Kharif 2022	Rainfed	Red Laterite				Gora, ragi, Blackgram				
DRMR Demonstration											
Mustard	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Ragi, Blackgram				
Nutritional Garden											
Vegetables	Rabi 2022-23	Irrigated	Red Laterite				Vegetable, Maize				
Natural Farming Demonstration											
Wheat + Chick Pea	Rabi 2022-23	Irrigated	Red Laterite				Paddy, Maize				

B. Performance of FLD

Oilseeds

Frontline Demonstration on Oilseed crops

Crop	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	Farm mechanization	**01**	1.0				Pod formation stage							
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

Pulses

Frontline Demonstration on Pulses crops

Crop	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
Moong	Variety-IPM 205-07	13	2.13	8.4	7.2	16.67	33980	61110	27130	1.80	32210	52980	20170	1.63
Chick pea	Variety-JG-12	05	1.25	16.4	13.9	17.99	36500	85772	49272	2.34	34250	72697	38447	2.12
Redgram	Variety-Rajeev Lochan	19	5.3	15.65	12.40	26.54	31750	98595	73250	3.31	29500	78120	56600	2.92
	Total	**37**	**8.68**											

* 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

Horticultural crops (separately Fruit, Vegetables, Flower, Medicinal and aromatics, etc.)

Frontline demonstration on pulse crops

Crop	Thematic Area	Name of the technology demonstrated	No. of Farmers	Area (ha)	Yield (q/ha)		% Increase	*Economics of demonstration (Rs./ha)				*Economics of check (Rs./ha)			
					Demo	Check		Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Bottle gourd	Variety-Anokhi	01	07	1.0	147.93	93.53	58.18	48857.14	147938.57	99081.42	3.02	46285.71	93552.85	47267.14	2.01
Cow pea	Variety-Ketki	01	07	0.4	70.57	51.92	46.45	46570.42	141147.57	94577.14	3.02	43928.58	92900	48971.42	2.10
Okra	Variety-Anukranti	01	07	1.0	91.42	59.24	53.66	56142.85	182848.57	126705.71	3.25	52482.57	118497.14	66068.57	2.25
Pointed gourd	Variety-Swarna Alokik	01	01	0.05	168.15	104.32	61.18	55500	201780	146280	3.63	51500	125184	73684	2.43
Tomato	Variety-Swarna sampada	01	05	2.0	279.11	165.90	68.15	73400	279116	205716	3.79	65100	165900	10080	2.54
Marigold	Variety-Pusa Narangi	01	02	0.4	162.21	103.37	62.79	54250	168210	113960	3.14	48750	103370	54620	2.11
	Total	**6**	**29**	**4.85**											

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

** BCR= GROSS RETURN/GROSS COST

Crop	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
Cluster Front Line Demonstration (Rabi 2021-22)																
Mustard	Improved variety PM-30 with ICM	39	20	16.71	10.1	65.44			32000	84385	52385	2.63	27500	51005	23505	1.85
Linseed	Improved variety Priyam with ICM	09	3.0	10.50	7.80	34.61			25000	55650	30650	2.20	21000	41340	20340	1.97
Linseed	Improved variety Kota Barani Alsi-4 with ICM	21	7.0	9.60	6.20	54.84			25000	50880	25880	2.03	21000	32860	17860	1.56
Cluster Front Line Demonstration Oilseed & Pulses (Kharif 22-23)																
Groundnut	Improved variety TG-51with ICM	07	3.0	18.70	13.50	38.52			49010	109395	60385	2.23	44110	78975	34865	1.79
Groundnut	Farmers variety (Dharini) & Pesticides	16	7.0	16.60	13.50	22.96			45210	97110	51900	2.15	44110	78975	34865	1.79
Blackgram	Improved variety PU-31 with ICM	75	20	10.30	7.00	47.14			31825	67980	36155	2.13	27600	46200	18600	1.67
Sesame	Improved variety Subhra with ICM	14	8.30	5.70	4.60	47.82			25955	44631	18676	1.72	22300	36018	13718	1.61
Sesame	Improved variety RT-346 with ICM	20	11.70	6.30	4.60	65.50			26100	49329	23229	1.89	22300	36018	13718	1.61
Niger	Improved variety BN-1 with ICM	41	20.0	4.3	3.0	43.33			17238	31334	14096	1.83	16690	21861	51711	1.31

Crop	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
Redgram	Improved variety IPA 203 with ICM	14	5.75	14.30	10.44	37.47			39590	94380	54790	2.38	35800	68640	32800	1.92
Redgram	Improved variety PU-15-2 with ICM	12	5.0	14.10	11.40	23.68			38870	93060	54190	2.39	35800	75240	39440	2.10
Redgram	Improved variety Rajeev Lochan	19	9.25	13.90	10.90	27.52			38890	91740	52850	2.36	35800	71940	36140	2.0
Cluster Front Line Demonstration Oilseeds & Pulses (Rabi 2022-23)																
Mustard	Improved variety PM-30 with ICM	67	40	14.70	11.8	24.57			35610	74235	38625	2.08	32150	59590	27440	1.85
Linseed	Improved variety JLS 95 with ICM	46	10	10.20	6.95	46.76			26140	54060	27920	2.06	23640	36835	13195	1.55
Lentil	Improved variety IPL 220 with ICM	126	20	12.30	9.80	25.51			39603	73800	34197	1.86	35125	58800	23675	1.67
Cereals (Kharif 2022)																
Ragi	Variety – Birsa Maduwa-3	81	16.0	18.7	16.2	15.43			28330	66908.60	38578.60	2.36	27990	57963.60	29973.6	2.07
Maize	Variety –Suwan-1	19	1.0	38.4	33.5	14.62			38440	75340.80	36900.80	1.96	37220	65727	28507	1.77
Aerobic rice	Variety –Anjali with broadcasting method	24	5.0	27.8	23.5	18.30			30780	56712	25932	1.84	29900	47940	18040	1.60
Paddy	Variety –Swarna Shreya	07	2.0	40.5	35.8	13.13			43000	82620	36920	1.92	42290	73032	30742	1.73
Aerobic rice	Variety –Anjali with line sowing	02	1.0	27.7	24.5	13.06			28950	56508	27558	1.95	26750	49980	23230	1.86

Crop	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
Cereals (Rabi 2022-23)																
Wheat	Variety –DBW 187	07	2.78						Crop Standing							
Wheat	Variety – Sabour nirjal	07	1.02						Crop Standing							
Cereals (Rabi 2021-22)																
Wheat	Variety –HD 2967	10	3.81	37.1	31.5	17.78			41730	40420	74757	33027	1.79	63473	23053	1.57
Wheat	Variety –HD 3118	07	1.79	34.5	30.9	11.65			41130	40420	69518	28388	1.69	62264	22044	1.55
Wheat	Variety –DBW 187	08	2.4	37.6	31.7	18.61			14430	40420	75764	34634	1.84	63876	23456	1.58
Wheat	Variety-HD 2967 with lime application	01	0.4	34.8	30.65	13.54			34500	68730	34230	1.99	31300	60534	29234	1.93
Organic Rice Demonstration (Kharif 2022)																
Paddy	Variety-Rajendra Mansuri	19	4.5	22.50	20.45	10.02			29550	45000	15450	1.52	2750	40900	13400	1.49
Paddy	Variety-Kalajeera	06	3.0	16.85	13.57	24.17			29550	58975	29425	2.00	27500	47495	19995	1.73
Paddy	Variety-Jeeraphool	25	11.5	17.15	14.2	20.77			29550	60025	30475	2.03	27500	49700	22200	1.81
Paddy	Variety-Bhutku	18	6.0	15.25	12.0	27.08			29550	53375	23825	1.81	27500	42000	14500	1.53
Natural Farmng Demonstration																
Paddy	Variety-Kalajeera	30	17.5	14.10	12.05	16.91			27133.33	42320	15220	1.55	25150	36150	11000	1.43
TSP																

Crop	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
Papaya	Variety-Ranchi Papaya	17	0.4													
Forage Demonstration																
Rice bean	Variety-Vidhan-2	40	4.0													
Maize	Variety-J-1006	30	3.0													
AICRP Niger Demonstration																
Niger	Variety-Birsa niger-3 with whole package	10	4.0	4.5	2.9	55.17			17695	32792	15097	1.85	11930	21132.30	9020.30	1.77
Niger	Variety-Birsa niger-3	05	2.0	3.5	2.7	29.63			12000	25504.50	13504.50	2.13	11750	19674.90	7924.90	1.67
Niger	Variety-Birsa niger-3 with method of sowing	05	2.0	2.82	3.22	18.63			12600	27836.34	15236.34	2.21	11950	23464.14	11514.14	1.96
Niger	Variety-Birsa niger-3 with fertilizer management	05	2.0	4.4	2.7	62.96			18424	32062.80	13638.80	1.74	11630	19674.90	8044.90	1.69
Niger	Variety-Birsa niger-3 with seed management	05	2.0	4.18	3.2	30.63			14200	30459.66	16259.66	2.15	11550	23318.40	11768.40	2.02
Drone Technology Demonstration																
Mango	Jeevamrit Spray with drone	06	3.50													

Crop	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
Mango	Carbendazim 12% + Mancozeb 63% Spray with drone	47	23.12													
Niger	Sulphur Spray with drone	**02**	2.24													
Redgram	Sulphur Spray with drone	**03**	2.0													
DRMR Demonstration (Kharif 2022-23)																
Mustard	Variety-PM-30 with NPK	**71**	24.24	15.80	11.54	36.92			35750	79790	44040	2.23	30550	50277	27727	1.91
	Variety-PM-26 with NPK	**31**	11.60	15.26	11.35	34.45			35450	77063	41613	2.17	30250	57317	27067	1.89
	Variety-BBM-1 with NPK	**06**	4.16	16.12	11.90	35.46			36500	81406	44906	2.23	30800	60095	29295	1.95
DRMR Demonstration Rabi (2021-22)																
Mustard	Variety-PM-30 with NPK	**102**	40.00	17.27	10.24	69.11			32450	117418	84960	3.62	22500	69617	47117	3.09
Nutritional Garden Demonstration																
Vegetable	Nutritional garden	**20**	0.46						Crop standing							
Nutritional Farming Demonstration																
Wheat + Chick pea	Crop management with Natural method	**08**	3.2						Crop standing							

Demonstration details on crop hybrid varieties

Crop	Name of the Hybrid	No. of Farmers	Area (ha)	Yield (kg/ha) / major parameter			Economics (Rs./ha)			
				Demo	Local check	% change	Gross Cost	Gross Return	Net Return	BCR
Cereals										
Bajra										
Maize										
Paddy										
Sorghum										
Wheat										
Others (Pl. specify)										
Total Cereals										
Oilseeds										
Castor										
Mustard										
Safflower										
Sesame										
Sunflower										
Groundnut										
Soybean										
Others (Pl. specify)										
Total Oilseeds										
Pulses										
Greengram										
Blackgram										
Bengalgram										
Redgram										
Others (Pl. specify)										
Total Pulses										
Vegetable crops										
Bottle gourd	Anokhi	07	0.4	147.93	93.53	58.18	48857.14	147938.57	99081.42	3.02
Capsicum										
Cucumber										
Tomato										
Brinjal										
Okra	Anukranti (F_1)	07	1.0	91.42	59.24	53.66	56142.85	182848.57	126705.71	3.25

Onion										
Potato										
Field bean										
Others (Pl. specify)										
Total Veg. Crops										
Commercial Crops										
Cotton										
Coconut										
Others (Pl. specify)										
Total Commercial Crops										
Fodder crops										
Napier (Fodder)										
Maize (Fodder)										
Sorghum (Fodder)										
Others (Pl. specify)										
Total Fodder Crops										

* 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

Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters (Egg production/Bird in no.) and Body weight gain (in kg)		% change in major parameter	Other parameter		*Economics of demonstration (Rs.)				*Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Dairy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Poultry	Improved breed	Kadaknath	10	10	2.1	1.6	31.25			188	525	337	2.79	160	400	240	2.5
		Red divyayan	20	20	2.3	1.6	43.75			188	575	387	3.05	160	400	240	2.5
Pigerry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Goat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Duckery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Others (pl.specify)																	
Total			**30**	**30**													

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.)			
					Demo (q/ha)	Check (q/ha)		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
					--	--	--	Growth stage									
Fish	Fish farming	Composite fish farming	06	06	11.60	7.10	63.38			58000	174000	116000	3.0	42000	106500	65500	2.53
Mussels	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ornamental fishes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Others (pl.specify)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	--	--	**06**	**06**	--	--	--	--	--	--	--	--	--	--	--	--	--

*** 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 (Q/ha)		% change in major parameter	Other parameter		*Economics of demonstration (Rs.) or Rs./unit				*Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	** BCR	Gross Cost	Gross Return	Net Return	** BCR
Oyster mushroom	Oyester mushroom production	15							Growth stage							
Button mushroom																
Vermicompost	*Eisenia fetida*															
Sericulture	-															
**Apiculture	*Italian Bee*															
Others																
**Lac on ber	Kusumi lac production	50	50	11.61	8.10	43.33	-	-	282000	928800	646000	3.29	218000	648000	430000	2.97
Lac on Kusum (Rabi 2021)	Kusumi lac production															
***Lac on Ber	Kusumi lac production															

* 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** Under ARYA

Women empowerment

Category	Name of technology	No. of demonstrations	Observations		Remarks
			Demonstration	Check	
Farm Women	• Medicinal & Aromatic plant cultivation				
	Mushroom production	215	Growth stage		Oyester mushroom
Pregnant women	--				
Adolescent Girl	--				
Other women	Lemon grass cultivation & value addition				
Children	--				
Neonatal	--				
Infants	--				
Other women	Development of nutritional garden	20	Growth stage		

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)	
					Demo	Check		Demo	Check	Demo	Check
Zero tillage	Wheat	Zero tillage	01	0.4	512	680	32.8	64	85	31500	48750

*** 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**

- **Under meditional & Aeromatic project**

Farm Machinery

Category	Name of the implement / Equipment / Tool	Crop (if applicable)	No. of Technologies	No. of Demos	Area (ha)
Sowing and planting tools and machineries					
Total	Zero till machine	Mustard	01	01	0.4
Intercultural operation tools and machineries					
Total					
Irrigation management tools and machineries					
Total					
Plant protection tools and machineries					
Total					
Harvesting tools and machineries					
Total					
Postharvest processing tools and machineries					
Total					
Total mechanization tools and machineries					
Total					
Others					
Total					
Grand Total			**01**	**01**	**0.4**

Technical Feedback on the demonstrated technologies

S. No	Crop	Feed Back
1	Paddy	Good response towards Aerobic rice variety Anjali
2	Wheat	Demonstration on wheat thresher machine creating awareness about safe gain recovery as well as feed security of animal
3	Maize	Good response towards Suwan-1
4	Rabi season crops	Water conservation through low cost methodology "Bora Bandi" under NICRA Project is emerging as boom for enhancing area under Rabi as well as summer crop
5	Paddy	Good response towards var. Sahbhagi dhan in respect of drought tolerant.
6	Wheat	Encouragement towards use of Improved and high yielding variety.
7	Mustard	Appreciation for Var.-PM-30

Extension and Training activities under FLD

SL.No.	Activity	Date	No. of activities organized	Number of participants	Remarks
Oilseeds					
1.	Field days	10/01/22, 22/02/22, 04/02/22, 22/02/22, 09/03/22, 09/03/22, 09/03/22, 16/03//22, 28/03/22, 24/09/22, 27/10/22, 08/10/22, 06/11/22, 17/11/22, 09/12/22, 10/12/22,	16	295	
2.	Farmers Training	15/07/22, 30/08/22, 31/08/22, 16/09/22, 05/09/22, 05/09/22, 04/11/22, 06/11/22, 10/11/22, 08/11/22, 28/11/22, 03/12/22, 06/12/22, 03/12/22,	14	203	
3.	Media coverage				
4.	Training for extension functionaries				
Pulses					
1.	Field days	24/03/22	01	07	
2.	Farmers Training	14/03/22, 07/07/22, 09/07/22, 13/07/22, 16/07/22, 20/07/22,	06	125	
3.	Media coverage				
4.	Training for extension functionaries				
Other than OLS and PLS					
1.	Field days	25/03/22, 27/03/22, 30/03/22, 17/08/22, 20/09/22, 21/09/22, 28/09/22, 01/10/22, 11/10/22, 03/11/22, 07/11/22, 07/11/22, 12/11/22,	13	207	
2.	Farmers Training	03/12/22	01	09	
3.	Media coverage				
4.	Training for extension functionaries				

Performance of the demonstration under CFLD on Pulse and Oilseed Crops during Kharif 2022-23 : Attached in ANNEXURE

A. Technical Parameters:

S N.	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
	Pulses														
1	Blackgram	Uttara	7.0	401	127	(-) 461	PU 31 + ICM	75	20	11.8	8.8	10.30	38.93	12.33	(-) 30.91
2	Redgram	Asha	11.4	0	281	(-) 590	IPA 15-2 + ICM	12	5.0	12.5	15.3	14.10	0	24.89	(-)29.5
3		Asha	10.90	(-) 20	261	(-) 510	Rajeev Lochan+ ICM	19	9.25	11.6	14.80	13.9	(-) 1.41	23.11	(-) 26.84
4		Asha	10.44	20	301	(-) 516	IPA-203 + ICM	14	5.72	11.8	15.6	14.3	1.42	26.66	(-)26.51
5	Lentil	Local	9.80	490	350	(-) 170	IPL-220 + ICM	126	20	10.8	13.9	12.3	66.21	39.77	(-) 12.14
	Oilseed														
6	Niger	Deomali	3.0	(-) 65	32	(-) 70	Birsa Niger-1 + ICM	36	20	4.8	4.0	4.3	6.97	7.44	(-)14.0
7	Groundnut	Dharini	13.5	384	990	(-) 1130	TG-51 + ICM	07	03	19.6	17.5	18.7	28.87	52.94	(-) 37.66
8		Dharini	13.50	174	780	(-) 1040	Component (Pesticide)	16	07	18.2	15.5	16.6	19.87	46.98	(-)36.15
9	Sesame	Kanke Safed	4.6	102	152	(-)330	Shubhra + ICM	14	8.3	6.8	4.3	5.7	17.89	26.66	(-)36.66
10		Kanke Safed	4.6	162	212	(-)370	RT 346 + ICM	20	11.7	6.5	5.2	6.3	25.71	33.65	(-) 37.00
11	Mustard	Varuna	11.8	502	651	(-) 768	PM-30+ ICM	67	40	12.8	15.8	14.7	51.86	79.48	(-) 34.31
12	Linseed	Local	6.95	215	428	(-) 180	JLS-95+ ICM	46	10	8.8	11.3	10.2	26.70	72.29	(-) 15.0

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
	Pulses								
1	PU-31 & ICM	23300	40800	27500	1.75	28200	72780	44580	2.58
2	IPA 15-2 + ICM	35800	75240	39440	2.1	38870	93060	54190	2.39
3	Rajeev Lochan+ ICM	35800	71940	36140	2.0	38890	91740	52850	2.36
4	IPA-203 + ICM	35800	68640	32800	1.92	39590	94380	54790	2.38
5	IPL-220 + ICM	35125	58800	23675	1.67	39603	73800	34197	1.86
	Oilseeds								
6	Birsa Niger-1 + ICM	16690	21861	5171	1.31	17238	31334	14096	1.82
7	TG-51 + ICM	44110	78975	34865	1.79	49010	109395	60385	2.23
8	Component (Pesticide)	44110	78975	34865	1.79	45210	97110	51900	2.15
9	Shubhra + ICM	22300	36018	13718	1.61	25955	44631	18676	1.72
10	RT 346 + ICM	22300	36018	13718	1.61	26100	49329	23229	1.89
11	PM-30+ ICM	32150	59590	27440	1.85	35610	74235	38625	2.08
12	JLS-95+ ICM	23640	36835	13195	1.55	26140	54060	27920	2.06

Rabi 2021-22

A. Technical Parameters:

S N.	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
	Oilseed														
1	Mustard	Varuna	10.10	703	945	(-)567	PM-30 + ICM	39	20	18.20	15.03	16.71	42.07	50.62	(-)25.33
2	Linseed	Uttera	7.8	245	490	(-)950	Priyam+ICM	08	03	12.30	8.8	10.5	23.33	46.66	(-)47.50
3		Uttera	6.2	155	400	(-)140	Kota Barani Alsi-4+ICM	22	07	10.7	8.4	9.6	16.14	41.66	(-)14.0

B. Economic parameters

Sl. No.	Variety demonstrated & Technology demonstrated	Farmer's Existing plot				Demonstration plot			
		Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio	Gross Cost (Rs/ha)	Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
	Oilseed								
1	PM-30 + ICM	27500	51005	23505	1.35	32000	84385	52885	2.63
2	Priyam+ICM	21000	32860	17860	1.56	25000	55650	30650	2.20
3	Kota Barani Alsi-4+ICM	21000	32860	17860	1.56	25000	50880	25880	2.03

C. Socio-economic impact parameters

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

D. Oilseed Farmers' perception of the intervention demonstrated

Sl. No.	Technologies demonstrated (with name)	Farmers' Perception parameters					
		Suitability to their farming system	Likings (Preference)	Affordability	Any negative effect	Is Technology acceptable to all in the group/village	Suggestions, for change/improvement, if any

E. Specific Characteristics of Technology and Performance

Specific Characteristic	Performance	Performance of Technology vis-a vis Local Check	Farmers Feedback

F. Extension activities under FLD conducted till dates:

Sl. No.	Extension Activities organized	Date and place of activity	Number of farmer attended

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

H. Farmers' training photographs

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

J. Details of budget utilization

Crop (provide crop wise information)	Items	Budget Received (Rs.)	Budget Utilization (Rs.)	Balance (Rs.)
	i) Critical input			
	ii) TA/DA/POL etc. for monitoring			
	iii) Extension Activities (Field day)			
	iv)Publication of literature			
	Total			

3.3 Achievements on Training (Including the sponsored and FLD training programmes):
A) Farmers and farm women including the sponsored training programme (on campus)

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
I Crop Production													
Weed Management													
Resource Conservation Technologies													
Cropping Systems													
Crop Diversification													
Integrated Farming	1	0	0	0	0	0	0	18	19	37	18	19	37
Water management													
Seed production	7	49	9	58	0	0	0	242	106	348	291	115	406
Nursery management													
Integrated Crop Management	20	50	44	94	0	0	0	213	131	344	263	175	438
Fodder production													
Production of organic inputs													
Others													
Contingent Crop Plan	1	4	2	6	3	0	3	21	9	30	28	11	39
Post Harvest Technology	2	2	4	6	0	0	0	28	42	70	30	46	76
Total	**31**	**105**	**59**	**164**	**3**	**0**	**3**	**522**	**307**	**829**	**630**	**366**	**996**
II Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	1	1	0	1	0	0	0	7	8	15	8	8	16
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization	1	0	0	0	0	0	0	13	6	19	13	6	19
Protective cultivation (Green Houses, Shade Net etc.)	1	0	0	0	0	0	0	18	8	26	18	8	26
Others, if any (Cultivation of Vegetable)													
Business plan	1	12	13	25	0	0	0	6	8	14	18	21	39
Natural farming	4	16	14	30	0	0	0	40	11	51	56	25	81
b) Fruits													
Layout and Management of Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Micro irrigation systems of orchards													
Plant propagation techniques													
Production and Management technology													
Fruit Production	1	0	0	0	0	0	0	29	14	43	29	14	43
c) Ornamental Plants													
Nursery Management													
Management of potted plants													
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
f) Spices													
Production and Management technology													
Processing and value addition													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology	3	6	15	21	0	0	0	23	28	51	29	43	72
Post harvest technology and value addition													
Medicinal vatika													
Total	**12**	**35**	**42**	**77**	**0**	**0**	**0**	**136**	**83**	**219**	**171**	**125**	**296**
III Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	5	2	0	2	0	0	0	96	63	159	98	63	161
Production and use of organic inputs													
Management of Problematic soils													
Micro nutrient deficiency in crops													
Nutrient Use Efficiency	1	1	0	1	0	0	0	10	12	22	11	12	23
Soil and Water Testing													
Others, if any													
Balance use of fertilizer	2	12	3	15	0	0	0	55	42	97	67	45	112
Liquid fertilizer	1	0	0	0	0	0	0	3	30	33	3	30	33
Soil Health management	1	1	0	1	0	0	0	13	7	20	14	7	21
Total	**10**	**16**	**3**	**19**	**0**	**0**	**0**	**177**	**154**	**331**	**193**	**157**	**350**
IV Livestock Production and Management													
Dairy Management													
Poultry Management	2	17	16	33	0	0	0	24	7	31	41	23	64
Piggery Management	4	9	10	19	0	0	0	42	14	56	51	24	75

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Rabbit Management													
Disease Management	1	5	8	13	0	0	0	7	10	17	12	18	30
Feed management													
Production of quality animal products													
Others													
Animal vaccination	1	0	2	2	0	0	0	2	25	27	2	27	29
Health awareness programme													
Fodder production & development													
Goatry	3	1	0	1	0	0	0	17	27	44	18	27	45
Total	**11**	**32**	**36**	**68**	**0**	**0**	**0**	**92**	**83**	**175**	**124**	**119**	**243**
V Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet													
Minimization of nutrient loss in processing	2	0	0	0	0	0	0	0	32	32	0	32	32
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1	0	0	0	0	0	0	0	14	14	0	14	14
Value addition	1	0	0	0	0	0	0	0	22	22	0	22	22
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies													
Rural Crafts													
Women and child care	1	0	0	0	0	0	0	0	19	19	0	19	19
Others													
Food processing	1	0	0	0	0	0	0	21	0	21	21	0	21
Nutritional garden	4	1	9	10	0	3	3	8	44	52	9	56	65
Capacity building	1	0	0	0	0	0	0	0	15	15	0	15	15
Drudgery reduction	1	0	0	0	0	0	0	0	21	21	0	21	21
Total	**12**	**1**	**9**	**10**	**0**	**3**	**3**	**29**	**167**	**196**	**30**	**179**	**209**
VI Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements	1	13	5	18	0	0	0	2	22	24	15	27	42
Repair and maintenance of farm machinery and implements	1	0	0	0	0	0	0	15	0	15	15	0	15
Small scale processing and value addition	1	0	0	0	0	0	0	6	12	18	6	12	18
Post Harvest Technology													
Others, if any													
Micro irrigation system	4	9	1	10	0	0	0	86	33	119	95	34	129
Farm mechanization													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Total	**7**	**22**	**6**	**28**	**0**	**0**	**0**	**109**	**67**	**176**	**131**	**73**	**204**
VII Plant Protection													
Integrated Pest Management	6	2	6	8	0	0	0	57	40	97	59	46	105
Production of bio pesticides													
Others													
Lac cultivation	6	13	0	13	0	0	0	81	20	101	94	20	114
Bee Keeping	1	22	0	22	7	0	7	81	10	91	110	10	120
Total	**13**	**37**	**6**	**43**	**7**	**0**	**7**	**219**	**70**	**289**	**263**	**76**	**339**
VIII Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
IX Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
X Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Other													
Seed production													
Knowledge upgradation													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII Other													
TOTAL	**96**	**248**	**161**	**409**	**10**	**3**	**13**	**1284**	**931**	**2215**	**1542**	**1095**	**2637**

B) Rural Youth including the sponsored training programme (On campus)

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(B) RURAL YOUTH													
Mushroom Production	3	4	7	11	0	0	0	1	34	35	5	41	46
Bee-keeping	1	0	0	0	0	0	0	16	9	25	16	9	25
Integrated farming													
Seed production													
Production of organic inputs	1	5	0	5	0	0	0	19	6	25	24	6	30
Planting material production													
Vermi-culture	4	1	0	1	0	0	0	44	38	82	45	38	83
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition	1	0	0	0	0	0	0	0	17	17	0	17	17
Production of quality animal products													
Dairying	1	8	7	15	0	0	0	11	3	14	19	10	29
Sheep and goat rearing	3	4	7	11	1	0	1	49	19	68	54	26	80
Quail farming													
Piggery	3	6	2	8	0	0	0	43	10	53	49	12	61
Rabbit farming													
Poultry farming													
Ornamental fisheries													
Para vets	2	3	0	3	0	0	0	25	0	25	28	0	28
Para extension workers													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(B) RURAL YOUTH													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching	2	0	2	2	0	1	1	0	27	27	0	30	30
Rural Crafts													
Others													
Training and pruning of orchards	1	0	0	0	0	0	0	10	2	12	10	2	12
Udyan Mitra (Mali)	2	2	3	5	0	0	0	9	2	11	11	5	16
Soil testing	1	0	2	2	0	0	0	4	14	18	4	16	20
Duck cum fish farming	1	0	0	0	0	0	0	18	0	18	18	0	18
Micro irrigation system	1	0	0	0	0	0	0	12	6	18	12	6	18
Lac cultivation	3	0	0	0	0	0	0	44	1	45	44	1	45
Total	**30**	**33**	**30**	**63**	**1**	**1**	**2**	**305**	**188**	**493**	**339**	**219**	**558**

C) Extension Personnel Including the sponsored training programmes (on campus)

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST				Grand Total	
		M	F	T	M	F	T	M	F	T	M	F	T
(C) Extension Personnel													
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
Formation and Management of SHGs				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
Care and maintenance of farm machinery and implements				0			0			0	0	0	0
WTO and IPR issues				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
Women and Child care				0			0			0	0	0	0
Low cost and nutrient efficient diet designing				0			0			0	0	0	0
Production and use of organic inputs				0			0			0	0	0	0
Gender mainstreaming through SHGs				0			0			0	0	0	0
Any other				0			0			0	0	0	0
Natural Farming	1	11	4	15	0	0	0	1	0	1	12	4	16
TOTAL	**1**	**11**	**4**	**15**	**0**	**0**	**0**	**1**	**0**	**1**	**12**	**4**	**16**

D) Farmers and farm women Including the sponsored training programmes (off campus)

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
I. Crop Production													
Weed Management	1	2	0	2	0	0	0	23	7	30	25	7	32
Resource Conservation Technologies	1	3	0	3	0	0	0	19	4	23	22	4	26
Cropping Systems	2	1	1	2	0	0	0	5	49	54	6	50	56
Crop Diversification													
Integrated Farming	3	9	0	9	0	0	0	52	37	89	61	37	98
Water management													
Seed production	1	0	0	0	0	0	0	29	13	42	29	13	42
Nursery management													
Integrated Crop Management	18	42	144	186	1	5	6	142	350	492	185	499	684
Fodder production													
Production of organic inputs	1	0	0	0	0	0	0	13	0	13	13	0	13
Others, (cultivation of crops)													
Organic farming	2	1	0	1	0	0	0	24	14	38	25	14	39
Contingent plan	1	0	0	0	0	0	0	29	0	29	29	0	29
Natural farming	3	1	1	2	0	0	0	33	72	105	34	73	107
Post harvest technology	11	8	117	125	0	5	5	7	218	225	15	340	355
Total	**44**	**67**	**263**	**330**	**1**	**10**	**11**	**376**	**764**	**1140**	**444**	**1037**	**1481**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	1	0	0	0	0	0	0	14	9	23	14	9	23
Off-season vegetables													
Nursery raising	1	6	0	6	0	0	0	27	0	27	33	0	33
Export potential vegetables													
Grading and standardization													
Protective cultivation (Green Houses, Shade Net etc.)													
Others, if any (Cultivation of Vegetable)													
FPO Management	4	17	30	47	0	5	5	17	62	79	34	97	131
Exotic vegetables	1	0	0	0	0	0	0	20	0	20	20	0	20
Natural farming	6	10	14	24	1	0	1	88	23	111	99	37	136
b) Fruits													
Layout and Management of	2	1	0	1	0	0	0	28	8	36	29	8	37

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Orchards													
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others, if any(INM)													
Fruit Production	2	0	0	0	0	0	0	15	20	35	15	20	35
c) Ornamental Plants													
Nursery Management													
Management of potted plants	1	0	0	0	0	0	0	6	19	25	6	19	25
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology	2	0	0	0	0	0	0	46	22	68	46	22	68
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													
Nursery management													
Production and management technology													
Post harvest technology and value addition													
Others, if any													
Total	**20**	**34**	**44**	**78**	**1**	**5**	**6**	**261**	**163**	**424**	**296**	**212**	**508**
III. Soil Health and Fertility Management													
Soil fertility management													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Soil and Water Conservation													
Integrated Nutrient Management	4	0	7	7	1	0	1	71	29	100	72	36	108
Production and use of organic inputs	2	0	2	2	0	0	0	13	34	47	13	36	49
Management of Problematic soils	1	0	0	0	0	0	0	14	8	22	14	8	22
Micro nutrient deficiency in crops	1	4	0	4	0	0	0	14	14	28	18	14	32
Nutrient Use Efficiency													
Soil and Water Testing	1	0	0	0	0	0	0	16	8	24	16	8	24
Others, if any													
Liquid fertilizer	1	0	0	0	0	0	0	30	0	30	30	0	30
Soil health management	1	2	0	2	0	0	0	18	12	30	20	12	32
Balance use of fertilizer	1	0	0	0	0	0	0	16	0	16	16	0	16
Fertilizer management													
Soil sampling	1	3	0	3	0	0	0	19	0	19	22	0	22
Total	**13**	**9**	**9**	**18**	**1**	**0**	**1**	**211**	**105**	**316**	**221**	**114**	**335**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management	2	1	0	1	0	0	0	37	1	38	38	1	39
Piggery Management	1	0	0	0	0	0	0	16	8	24	16	8	24
Rabbit Management													
Disease Management	2	1	0	1	0	0	0	49	0	49	50	0	50
Feed management	2	14	16	30	1	0	1	29	4	33	44	20	64
Production of quality animal products													
Others, if any Goat farming													
Cattle farming	1	0	0	0	0	0	0	5	15	20	5	15	20
Goatry	5	20	11	31	1	0	1	96	16	112	117	27	144
Milk production	1	0	0	0	0	0	0	24	0	24	24	0	24
Animal Vaccination	2	1	10	11	0	3	3	29	5	34	30	18	48
Duck-cum-fish farming	1	2	0	2	0	0	0	21	1	22	23	1	24
Total	**17**	**39**	**37**	**76**	**2**	**3**	**5**	**306**	**50**	**356**	**347**	**90**	**437**
V. Home Science/Women empowerment													
Household food security by kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	1	0	0	0	0	0	0	0	19	19	0	19	19

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Minimization of nutrient loss in processing													
Gender mainstreaming through SHGs													
Storage loss minimization techniques													
Enterprise development													
Value addition													
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies	1	0	0	0	0	0	0	0	15	15	0	15	15
Rural Crafts													
Capacity building													
Women and child care													
Others (is any)													
Nutritional garden	2	0	0	0	0	0	0	0	31	31	0	31	31
Group dynamics	1	0	0	0	0	0	0	0	27	27	0	27	27
Women empowerment	1	2	2	4	0	0	0	3	22	25	5	24	29
Mushroom production	2	0	4	4	0	3	3	0	28	28	0	35	35
Total	**8**	**2**	**6**	**8**	**0**	**3**	**3**	**3**	**142**	**145**	**5**	**151**	**156**
VI.Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements													
Repair and maintenance of farm machinery and implements													
Small scale processing and value addition													
Post Harvest Technology	1	0	0	0	0	0	0	4	15	19	4	15	19
Others, if any													
Farm mechanization	1	0	0	0	0	0	0	8	17	25	8	17	25
Rain water harvesting	2	10	0	10	0	0	0	10	28	38	20	28	48
Resource Conservation Technologies	1	4	8	12	0	0	0	6	2	8	10	10	20
Micro irrigation	3	1	6	7	0	0	0	43	58	101	44	64	108
Total	**8**	**15**	**14**	**29**	**0**	**0**	**0**	**71**	**120**	**191**	**86**	**134**	**220**
VII. Plant Protection													
Integrated Pest Management	4	12	16	28	0	0	0	27	48	75	39	64	103
Integrated Disease Management													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
Organic farming													
Lac cultivation	2	0	0	0	0	0	0	60	8	68	60	8	68
Seed treatment	1	0	0	0	0	0	0	5	40	45	5	40	45
Total	**7**	**12**	**16**	**28**	**0**	**0**	**0**	**92**	**96**	**188**	**104**	**112**	**216**
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													

Thematic Area	No. of Courses	No. of Participants											
		Others			SC			ST			Grand Total		
		M	F	T	M	F	T	M	F	T	M	F	T
(A) Farmers & Farm Women													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
GRAND TOTAL	**117**	**178**	**389**	**567**	**5**	**21**	**26**	**1320**	**1440**	**2760**	**1503**	**1850**	**3353**

E) RURAL YOUTH Including the sponsored training programmes (Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production													
Bee-keeping													
Integrated farming													
Seed production													
Production of organic inputs													
Integrated Farming													
Planting material production													
Vermi-culture													
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards													
Value addition													
Production of quality animal products													
Dairying													
Sheep and goat rearing													
Quail farming													
Piggery													
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets													
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post-Harvest Technology													
Tailoring and Stitching													
Rural Crafts													
Others, if any													
TOTAL													

F) Extension Personnel Including the sponsored training programmes (Off Campus)

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

G) Consolidated table (ON and OFF Campus)

i. Farmers & Farm Women

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
I. Crop Production													
Weed Management	1	2	0	2	0	0	0	23	7	30	25	7	32
Resource Conservation Technologies	1	3	0	3	0	0	0	19	4	23	22	4	26
Cropping Systems	2	1	1	2	0	0	0	5	49	54	6	50	56
Crop Diversification													
Integrated Farming	4	9	0	9	0	0	0	70	56	126	79	56	135
Water management													
Seed production													
Nursery management													
Integrated Crop Management	38	92	188	280	1	5	6	355	481	836	448	674	1122
Fodder production													
Production of organic inputs	1	0	0	0	0	0	0	13	0	13	13	0	13
Others													
Organic farming	2	1	0	1	0	0	0	24	14	38	25	14	39
Natural farming	3	1	1	2	0	0	0	33	72	105	34	73	107
Post Harvest Technology	13	10	121	131	0	5	5	35	260	295	45	386	431
Contingent crop plan	2	4	2	6	3	0	3	50	9	59	57	11	68
Seed production technology	8	49	9	58	0	0	0	271	119	390	320	128	448
Total	**75**	**172**	**322**	**494**	**4**	**10**	**14**	**898**	**1071**	**1969**	**1074**	**1403**	**2477**
II. Horticulture													
a) Vegetable Crops													
Integrated nutrient management													
Water management													
Enterprise development													
Skill development													
Yield increment													
Production of low volume and high value crops	2	1	0	1	0	0	0	21	17	38	22	17	39
Off-season vegetables													
Nursery raising													
Export potential vegetables													
Grading and standardization	1	0	0	0	0	0	0	13	6	19	13	6	19
Protective cultivation (Green Houses, Shade Net etc.)	1	0	0	0	0	0	0	18	8	26	18	8	26
Others, if any													
FPO management	4	17	30	47	0	5	5	17	62	79	34	97	131
Natural farming	10	26	28	54	1	0	1	128	34	162	155	62	217
Exotic vegetables	1	0	0	0	0	0	0	20	0	20	20	0	20

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
Business plan	1	12	13	25	0	0	0	6	8	14	18	21	39
Production and management technology													
Nursery management													
Enterprenureship development													
b) Fruits													
Layout and Management of Orchards	2	1	0	1	0	0	0	28	8	36	29	8	37
Cultivation of Fruit													
Management of young plants/orchards													
Rejuvenation of old orchards													
Export potential fruits													
Micro irrigation systems of orchards													
Plant propagation techniques													
Others													
Fruit production	3	0	0	0	0	0	0	44	34	78	44	34	78
Production and management technology													
c) Ornamental Plants													
Nursery Management	1	6	0	6	0	0	0	27	0	27	33	0	33
Management of potted plants	1	0	0	0	0	0	0	6	19	25	6	19	25
Export potential of ornamental plants													
Propagation techniques of Ornamental Plants													
Others, if any													
d) Plantation crops													
Production and Management technology													
Processing and value addition													
Others, if any													
e) Tuber crops													
Production and Management technology													
Processing and value addition													
Others, if any													
f) Spices													
Production and Management technology	2	0	0	0	0	0	0	46	22	68	46	22	68
Processing and value addition													
Others, if any													
g) Medicinal and Aromatic Plants													

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													
Production and management technology	3	6	15	21	0	0	0	23	28	51	29	43	72
Others, if any				0			0			0	0	0	0
Medicinal vatika				0			0			0	0	0	0
Total	**32**	**69**	**86**	**155**	**1**	**5**	**6**	**397**	**246**	**643**	**467**	**337**	**804**
III. Soil Health and Fertility Management													
Soil fertility management													
Soil and Water Conservation													
Integrated Nutrient Management	9	2	7	9	1	0	1	167	92	259	170	99	269
Production and use of organic inputs	2	0	2	2	0	0	0	13	34	47	13	36	49
Management of Problematic soils	1	0	0	0	0	0	0	14	8	22	14	8	22
Micro nutrient deficiency in crops	1	4	0	4	0	0	0	14	14	28	18	14	32
Nutrient Use Efficiency	1	1	0	1	0	0	0	10	12	22	11	12	23
Soil and Water Testing	1	0	0	0	0	0	0	16	8	24	16	8	24
Others, if any				0			0			0	0	0	0
Soil sampling	1	3	0	3	0	0	0	19	0	19	22	0	22
Soil health management	2	3	0	3	0	0	0	31	19	50	34	19	53
Balance use of fertilizer	3	12	3	15	0	0	0	71	42	113	83	45	128
Fertilizer management													
Liquid fertilizer	2	0	0	0	0	0	0	33	30	63	33	30	63
Total	**23**	**25**	**12**	**37**	**1**	**0**	**1**	**388**	**259**	**647**	**414**	**271**	**685**
IV. Livestock Production and Management													
Dairy Management													
Poultry Management	4	18	16	34	0	0	0	61	8	69	79	24	103
Piggery Management	5	9	10	19	0	0	0	58	22	80	67	32	99
Rabbit Management				0			0			0	0	0	0
Disease Management	3	6	8	14	0	0	0	56	10	66	62	18	80
Feed management	2	14	16	30	1	0	1	29	4	33	44	20	64
Production of quality animal products													
Others													
Goatry	8	21	11	32	1	0	1	113	43	156	135	54	189
Cattle farming	1	0	0	0	0	0	0	5	15	20	5	15	20
Milk production	1	0	0	0	0	0	0	24	0	24	24	0	24
Animal vaccination	3	1	12	13	0	3	3	31	30	61	32	45	77
Duck cum fish farming	1	2	0	2	0	0	0	21	1	22	23	1	24
Total	28	71	73	144	2	3	5	398	133	531	471	209	680
V. Home Science/Women empowerment													
Household food security by													

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
kitchen gardening and nutrition gardening													
Design and development of low/minimum cost diet													
Designing and development for high nutrient efficiency diet	1	0	0	0	0	0	0	0	19	19	0	19	19
Minimization of nutrient loss in processing	2	0	0	0	0	0	0	0	32	32	0	32	32
Gender mainstreaming through SHGs													
Storage loss minimization techniques	1	0	0	0	0	0	0	0	14	14	0	14	14
Enterprise development													
Value addition	1	0	0	0	0	0	0	0	22	22	0	22	22
Income generation activities for empowerment of rural Women													
Location specific drudgery reduction technologies	2	0	0	0	0	0	0	0	36	36	0	36	36
Rural Crafts													
Capacity building	1	0	0	0	0	0	0	0	15	15	0	15	15
Women and child care	1	0	0	0	0	0	0	0	19	19	0	19	19
Others, if any													
Mushroom production	2	0	4	4	0	3	3	0	28	28	0	35	35
Nutritional garden	6	1	9	10	0	3	3	39	44	83	40	56	96
Group dynamics	1	0	0	0	0	0	0	0	27	27	0	27	27
Women empowerment	1	2	2	4	0	0	0	3	22	25	5	24	29
Food processing	1	0	0	0	0	0	0	21	0	21	21	0	21
Total	**20**	**3**	**15**	**18**	**0**	**6**	**6**	**63**	**278**	**341**	**66**	**299**	**365**
VI. Agril. Engineering													
Installation and maintenance of micro irrigation systems													
Use of Plastics in farming practices													
Production of small tools and implements	1	13	5	18	0	0	0	2	22	24	15	27	42
Repair and maintenance of farm machinery and implements	1	0	0	0	0	0	0	15	0	15	15	0	15
Small scale processing and value addition	1	0	0	0	0	0	0	6	12	18	6	12	18
Post Harvest Technology	1	0	0	0	0	0	0	4	15	19	4	15	19
Others, if any													
Micro irrigation system	7	10	7	17	0	0	0	129	91	220	139	98	237
Farm mechanization	1	0	0	0	0	0	0	8	17	25	8	17	25
Water harvesting	2	10	0	10	0	0	0	10	28	38	20	28	48
Resource Conservation Technologies	1	4	8	12	0	0	0	6	2	8	10	10	20
Total	**15**	**37**	**20**	**45**	**0**	**0**	**0**	**180**	**187**	**359**	**207**	**197**	**424**

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
VII. Plant Protection													
Integrated Pest Management	10	14	22	36	0	0	0	84	88	172	98	110	208
Integrated Disease Management													
Bio-control of pests and diseases													
Production of bio control agents and bio pesticides													
Others, if any													
Bee Keeping	1	22	0	22	7	0	7	81	10	91	110	10	120
Lac cultivation	8	13	0	13	0	0	0	141	28	169	154	28	182
Seed treatment	1	0	0	0	0	0	0	5	40	45	5	40	45
Total	**20**	**49**	**22**	**71**	**7**	**0**	**7**	**311**	**166**	**477**	**367**	**188**	**555**
VIII. Fisheries													
Integrated fish farming													
Carp breeding and hatchery management													
Carp fry and fingerling rearing													
Composite fish culture & fish disease													
Fish feed preparation & its application to fish pond, like nursery, rearing & stocking pond													
Hatchery management and culture of freshwater prawn													
Breeding and culture of ornamental fishes													
Portable plastic carp hatchery													
Pen culture of fish and prawn													
Shrimp farming													
Edible oyster farming													
Pearl culture													
Fish processing and value addition													
Others, if any													
IX. Production of Inputs at site													
Seed Production													
Planting material production													
Bio-agents production													
Bio-pesticides production													
Bio-fertilizer production													
Vermi-compost production													
Organic manures production													

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Production of fry and fingerlings													
Production of Bee-colonies and wax sheets													
Small tools and implements													
Production of livestock feed and fodder													
Production of Fish feed													
Others, if any													
X. Capacity Building and Group Dynamics													
Leadership development													
Group dynamics													
Formation and Management of SHGs													
Mobilization of social capital													
Entrepreneurial development of farmers/youths													
WTO and IPR issues													
Others, if any													
XI Agro-forestry													
Production technologies													
Nursery management													
Integrated Farming Systems													
XII. Others (Pl. Specify)													
TOTAL	**213**	**426**	**550**	**964**	**15**	**24**	**39**	**2635**	**2340**	**4967**	**3066**	**2904**	**5990**

ii. RURAL YOUTH (On and Off Campus)

Thematic Area	No. of Courses	No. of Participants									Grand Total		
		Other			SC			ST					
		M	F	T	M	F	T	M	F	T	M	F	T
Mushroom Production	3	4	7	11	0	0	0	1	34	35	5	41	46
Bee-keeping	1	0	0	0	0	0	0	16	9	25	16	9	25
Lac cultivation	3	0	0	0	0	0	0	44	1	45	44	1	45
Seed production													
Production of organic inputs	1	5	0	5	0	0	0	19	6	25	24	6	30
Integrated Farming													
Planting material production													
Vermi-culture	4	1	0	1	0	0	0	44	38	82	45	38	83
Sericulture													
Protected cultivation of vegetable crops													
Commercial fruit production													
Repair and maintenance of farm machinery and implements													
Nursery Management of Horticulture crops													
Training and pruning of orchards	1	0	0	0	0	0	0	10	2	12	10	2	12
Value addition	1	0	0	0	0	0	0	0	17	17	0	17	17
Production of quality animal products													
Dairying	1	8	7	15	0	0	0	11	3	14	19	10	29
Sheep and goat rearing													
Quail farming													
Piggery	3	6	2	8	0	0	0	43	10	53	49	12	61
Rabbit farming													
Poultry production													
Ornamental fisheries													
Para vets	2	3	0	3	0	0	0	25	0	25	28	0	28
Para extension workers													
Composite fish culture													
Freshwater prawn culture													
Shrimp farming													
Pearl culture													
Cold water fisheries													
Fish harvest and processing technology													
Fry and fingerling rearing													
Small scale processing													
Post Harvest Technology													
Tailoring and Stitching	2	0	2	2	0	1	1	0	27	27	0	30	30
Rural Crafts													
Enterprise development													
Micro irrigation system	1	0	0	0	0	0	0	12	6	18	12	6	18

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
Lac cultivation													
Phasal suraksha Mitra													
Plant propagation techniques													
Others													
Goatry	3	4	7	11	1	0	1	49	19	68	54	26	80
Soil testing	1	0	2	2	0	0	0	4	14	18	4	16	20
Duck cum fish farming	1	0	0	0	0	0	0	18	0	18	18	0	18
Udyan Mitra	2	2	3	5	0	0	0	9	2	11	11	5	16
TOTAL	**30**	**33**	**30**	**63**	**1**	**1**	**2**	**305**	**188**	**493**	**339**	**219**	**558**

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													
Integrated Pest Management													
Integrated Nutrient management													
Rejuvenation of old orchards													
Value addition													
Protected cultivation technology	1	14	3	17	1	0	1	7	5	12	22	8	**30**
Formation and Management of SHGs													
Group Dynamics and farmers organization													
Information networking among farmers													
Capacity building for ICT application													
Care and maintenance of farm machinery and implements													
WTO and IPR issues													
Management in farm animals													
Livestock feed and fodder production													
Household food security													
Women and Child care													
Low cost and nutrient efficient diet designing													
Production and use of organic inputs													
Gender mainstreaming through SHGs													
Crop intensification													
Others													
Soil health card	10	41	2	43	0	0	0	62	9	71	103	11	**114**
Natural farming	1	11	4	15	0	0	0	1	0	1	12	4	**16**
TOTAL	**12**	**66**	**9**	**75**	**1**	**0**	**1**	**70**	**14**	**84**	**137**	**23**	**160**

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

ATTACHED in ANNEXURE

Date	Clientele	Title of the training programme	Duration in days	Venue (Off / On Campus)	Number of participants			Number of SC/ST		
					Male	Female	Total	Male	Female	Total
Agronomy										
Fishery										
Home Science										
Horticulture										
Plant Protection										
Animal Husbandry										

(H) Vocational training programmes for Rural Youth

Vocational training programmers for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Duration (days)	No. of Participants			Self employed after training			Number of persons employed else where
				Male	Female	Total	Type of units	Number of units	Number of persons employed	
Mali training (Vocational)	Mali training (Vocational)	Mali training (Vocational) (10-24/02/22)	15	8	2	10		04	04	-
Cutting and tailoring	Cutting and tailoring	Cutting and tailoring (12-30/03/22)	15	0	18	18		12	12	
Para extension worker	Para extension worker	Para extension worker (17-31/05/22)	15	16	0	16		08	08	
Cutting and Tailoring	Cutting and Tailoring	Cutting and Tailoring (01-30/11/22)	30	0	12	12	Small scale	12	12	
		Total		**24**	**32**	**56**				

(I) Sponsored Training Programmes

SN	Title	Thematic Area	Month/Date	Dur ation	Client (PF/RY/EF)	No. of course	Venue	Male			Female			Total				Sponsored
								Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
1	Goat farming	Goat farming	10-16/01/22	7	RY	1	ON	3	1	20	6	0	10	9	1	30	40	ARYA
2	Goat farming	Goat farming	5-9/01/22	7	RY	1	ON	1	0	15	0	0	4	1	0	19	20	ARYA
3	Pig farming	Pig farming	17-23/02/22	7	RY	1	ON	6	0	13	2	0	0	8	0	13	21	ARYA
4	Lac cultivation	Lac cultivation	10-14/03/22	5	RY	1	ON	0	0	17	0	0	0	0	0	17	17	ARYA
5	Scientific bee keeping	Scientific bee keeping	2-8/03/22	7	RY	1	ON	0	0	16	0	0	9	0	0	25	25	NHBM
6	Pig farming	Pig farming	12-18/09/22	7	RY	1	ON	0	0	12	0	0	8	0	0	20	20	ARYA
7	Goat farming	Goat farming	15-21/10/22	7	RY	1	ON	0	0	14	1	0	5	1	0	19	20	Arya
8	Pig farming	Pig farming	7-13/11/22	7	RY	1	ON	0	0	18	0	0	2	0	0	20	20	ARYA
	Total					**8**	**0**	**10**	**1**	**125**	**9**	**0**	**38**	**19**	**1**	**163**	**183**	
1	Lac Cultivation	Lac Cultivation	8/1/2022	1	PF	1	ON	7	0	3	0	0	5	7	0	8	15	ARYA
2	Lac Cultivation	Lac Cultivation	11/1/2022	1	PF	1	ON	0	0	15	0	0	3	0	0	18	18	ARYA
3	Institutional training on management of Rai/ Mustard crop	INM	17-18/01/22	2	PF	1	ON	0	0	9	0	0	21	0	0	30	30	DRMR
4	Institutional training on management of Rai/	INM	19-20/01/22	2	PF	1	ON	2	0	26	0	0	2	2	0	28	30	DRMR

SN	Title	Thematic Area	Month/Date	Duration	Client (PF/RY/EF)	No. of course	Venue	Male			Female			Total				Sponsored
								Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
	Mustard crop																	
5	Nutritional Garden	Nutritional Garden	14/11/22	1	PF	1	ON	0	0	0	7	3	14	7	3	14	24	NARI
6	Backyard poultry farming	Poultry farming	17-19/01/22	2	PF	1	ON	16	0	5	16	0	3	32	0	8	40	NICRA
7	Development of integrated small scale processing unit	Value addition	28/01/22	1	PF	1	ON	0	0	21	0	0	0	0	0	21	21	GOI
8	Commercial pig farming	Pig farming	31/01/22-02/02/22	1	PF	1	ON	7	0	17	10	0	6	17	0	23	40	Fishries ministry
9	Goat feeding and vaccination	Goat farming	4/2/2022	1	PF	1	ON	1	0	12	0	0	4	1	0	16	17	ARYA
10	Pig vaccination and feed management	Pig farming	26/02/22	1	PF	1	ON	2	0	13	0	0	0	2	0	13	15	ARYA
11	Natural farming	Natural farming	23/03/2022	1	PF	1	ON	6	0	13	3	0	6	9	0	19	28	Natural farming
12	Goat farming	Goat farming	23/03/2022	1	PF	1	ON	0	0	2	0	0	11	0	0	13	13	ARYA
13	Nutritional garden	Nutritional garden	2/3/2022	1	PF	1	ON	0	0	0	2	0	13	2	0	13	15	NARI
14	Onlilne training on scientific bee keeping	Bee Keeping	29-31/03/2022	3	PF	1	ON	22	7	81	0	0	10	22	7	91	120	NBHM
15	Goat vaccination and management	Goat farming	14/4/22	1	PF	1	ON	0	0	3	0	0	12	0	0	15	15	Arya
16	Paddy seed production technology	Seed Production	21/6/22	1	PF	1	ON	0	0	31	0	0	34	0	0	65	65	Seed production (VB)
17	Paddy seed production technology	Seed Production	22/6/22	1	PF	1	ON	2	0	42	0	0	1	2	0	43	45	Seed production (VB)
18	Paddy seed production technology	Seed Production	23/6/22	1	PF	1	ON	0	0	32	0	0	27	0	0	59	59	Seed production (VB)
19	Paddy seed production technology	Seed Production	24/6/22	1	PF	1	ON	36	0	23	7	0	1	43	0	24	67	Seed production (VB)
20	Paddy seed production	Seed Production	25/6/22	1	PF	1	ON	8	0	36	2	0	39	10	0	75	85	Seed

SN	Title	Thematic Area	Month/Date	Duration	Client (PF/RY/EF)	No. of course	Venue	Male			Female			Total				Sponsored
								Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
	technology																	production (VB)
21	Improved production technology of Finger millet	ICM	19/07/22	1	PF	1	ON	0	0	2	2	0	25	2	0	27	29	JSLPS
22	Natural Farming	Natural Farming	29/07/22	1	PF	1	ON	9	0	0	11	0	0	20	0	0	20	Natural Farming
23	Management of rice under seed production programme	Seed Production	3/8/2022	1	PF	1	On	3	0	29	0	0	0	3	0	29	32	Seed production
24	Management of rice under seed production programme	Seed Production	4/8/2022	1	PF	1	ON	0	0	49	0	0	4	0	0	53	53	Seed production
25	Natural farming	Natural farming	11/8/2022	1	PF	1	ON	0	0	20	0	0	5	0	0	25	25	Natural farming
26	Traditional herbal garden	Medicinal cultivation	13/09/22	1	PF	1	ON	4	0	1	10	0	1	14	0	2	16	Sponsored
27	Niger cultivation	ICM	16/09/22	1	PF	1	ON	4	0	16	2	0	2	6	0	18	24	CFLD
28	Pig vaccination and feed management	Pig farming	23/09/22	1	PF	1	ON	0	0	7	0	0	3	0	0	10	10	ARYA
29	Micro irrigation (Jal shakti Abhiyan)	Micro irrigation	24/09/22	1	PF	1	ON	3	0	35	1	0	13	4	0	48	52	Jal shakti
30	Medicinal plant and herbal garden	Medicinal cultivation	18-20/10/22	3	PF	1	ON	2	0	4	5	0	21	7	0	25	32	JSLPS
31	Mango Plantation	Mango Plantation	03/11/22	1	PF	1	ON	0	0	29	0	0	14	0	0	43	43	
32	Pig Farming	Pig Farming	01/11/22	1	PF	1	ON	0	0	5	0	0	5	0	0	10	10	
33	Post harvest management of Ragi	PHM	03/11/22	1	PF	1	ON	0	0	2	4	0	40	4	0	42	46	
34	Scientific cultivation of Mustard	ICM	04/11/22	1	PF	1	ON	1	0	16	0	0	10	1	0	26	27	
35	Scientific cultivation of Mustard	ICM	07/11/22	1	PF	1	ON	5	0	24	3	0	11	8	0	35	43	
36	Scientific cultivation of Mustard	ICM	16/11/22	1	PF	1	ON	3	0	5	1	0	8	4	0	13	17	
37	Scientific cultivation of Mustard	ICM	21/11/22	1	PF	1	ON	0	0	8	0	0	6	0	0	14	14	
38	Natural Farming	Natural Farming	30/11/22	1	PF	1	ON	1	0	7	0	0	0	1	0	7	8	

SN	Title	Thematic Area	Month/Date	Duration	Client (PF/RY/EF)	No. of course	Venue	Male			Female			Total				Sponsored
								Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
39	Management of rai/ Mustard crop	ICM	16-17/12/22	1	PF	1	ON	3	0	21	0	0	6	3	0	27	30	DRMR
40	Lac cultivation	Lac cultivation	13/12/22	1	PF	1	ON	5	0	12	0	0	1	5	0	13	18	ARYA
41	Lac cultivation	Lac cultivation	14/12/22	1	PF	1	ON	0	0	27	0	0	0	0	0	27	27	ARYA
42	Lac cultivation	Lac cultivation	15/12/22	1	PF	1	ON	1	0	14	0	0	0	1	0	14	15	ARYA
43	Lac cultivation	Lac cultivation	17/12/22	1	PF	1	ON	0	0	10	0	0	11	0	0	21	21	ARYA
	Total					**43**	**0**	**153**	**7**	**727**	**86**	**3**	**398**	**239**	**10**	**1125**	**1374**	
1	Mushroom Production	Mushroom Production	7/1/2022	1	PF	1	OFF	0	0	0	0	0	10	0	0	10	10	Bio Tech
2	Backyard poultry farming	Poultry farming	3/1/2022	1	PF	1	OFF	1	0	13	0	0	0	1	0	13	14	ARYA
3	Goat farming and management	Goat farming	25/01/22	1	PF	1	OFF	20	1	3	10	0	6	30	1	9	40	ARYA
4	Natural farming	Natural farming	21/02/22	1	PF	1	OFF	4	0	17	0	0	2	4	0	19	23	Natural farming
5	Goat farming	Goat farming	3/2/2022	1	PF	1	OFF	0	0	10	1	0	8	1	0	18	19	ARYA
6	Natural farming	Natural farming	4/3/2022	1	PF	1	OFF	1	0	22	0	0	4	1	0	26	27	Natural farming
7	Natural farming	Natural farming	14/4/22	1	PF	1	OFF	0	0	19	0	0	0	0	0	19	19	Natural farming
8	Natural farming	Natural farming	9/5/2022	1	PF	1	OFF	0	1	10	0	0	13	0	1	23	24	Natural farming
9	Nutritional Garden	Nutritional Garden	14/05/22	1	PF	1	OFF	0	0	0	0	0	9	0	0	9	9	NARI
10	Organic Rice Cultivation	Organic farming	14/05/22	1	PF	1	OFF	0	0	7	0	0	9	0	0	16	16	Organic rice
11	Swine Fever Vaccination in Pig	Pig farming	25/05/22	1	PF	1	OFF	1	0	18	0	0	0	1	0	18	19	ARYA
12	Natural farming	Natural farming	8/6/2022	1	PF	1	OFF	0	0	19	0	0	4	0	0	23	23	Natural farming
13	Organic rice production technology	Organic farming	23/6/22	1	PF	1	OFF	1	0	17	0	0	5	1	0	22	23	Organic cultivation
14	Goat Vaccination	Goat farming	20/07/22	1	PF	1	OFF	0	0	26	0	0	1	0	0	27	27	ARYA
15	PPR Goat vaccination	Goat farming	23/07/22	1	PF	1	OFF	0	0	31	0	0	0	0	0	31	31	ARYA
16	Improved production technology of Finger millet	ICM	6/7/2022	1	PF	1	OFF	2	0	5	11	1	32	13	1	37	51	JSLPS

SN	Title	Thematic Area	Month/Date	Duration	Client (PF/RY/EF)	No. of course	Venue	Male			Female			Total				Sponsored
								Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
17	Improved production technology of Finger millet	ICM	7/7/2022	1	PF	1	OFF	3	0	0	33	0	38	36	0	38	74	JSLPS
18	Improved production technology of Finger millet	ICM	8/7/2022	1	PF	1	OFF	3	0	1	21	1	14	24	1	15	40	JSLPS
19	Improved production technology of Finger millet	ICM	9/7/2022	1	PF	1	OFF	0	0	0	11	0	15	11	0	15	26	JSLPS
20	Improved production technology of Finger millet	ICM	11/7/2022	1	PF	1	OFF	1	0	3	5	0	28	6	0	31	37	JSLPS
21	Improved production technology of Finger millet	ICM	12/7/2022	1	PF	1	OFF	1	1	1	18	0	13	19	1	14	34	JSLPS
22	Improved production technology of Finger millet	ICM	13/07/22	1	PF	1	OFF	0	0	0	33	1	45	33	1	45	79	JSLPS
23	Improved production technology of Finger millet	ICM	14/07/22	1	PF	1	OFF	0	0	1	6	0	43	6	0	44	50	JSLPS
24	Improved production technology of Finger millet	ICM	18/07/22	1	PF	1	OFF	1	0	1	5	0	13	6	0	14	20	JSLPS
25	Improved production technology of Finger millet	ICM	21/07/22	1	PF	1	OFF	1	0	6	0	2	31	1	2	37	40	JSLPS
26	Improved production technology of Finger millet	ICM	22/07/22	1	PF	1	OFF	0	0	0	1	0	33	1	0	33	34	JSLPS
27	Scientific Lac cultivation	Lac cultivation	1/7/2022	1	PF	1		0	0	45	0	0	5	0	0	50	50	ARYA
28	Empowerment of women through medicinal crop production	Women empowerment	23/8/22	1	PF	1	OFF	2	0	3	2	0	22	4	0	25	29	Mushroom
29	Natural farming	Natural farming	20/09/22	1	PF	1	OFF	5	0	1	14	0	0	19	0	1	20	Natural farming
30	Ginger cultivation	ICM	21-22/09/22	2	PF	1	OFF	0	0	33	0	0	10	0	0	43	43	DHO
31	Mango Plantation	Mango cultivation	1/9/2022	1	PF	1	OFF	0	0	8	0	0	6	0	0	14	14	NICRA
32	Orchard management	ICM	3/9/2022	1	PF	1	OFF	0	0	10	0	0	3	0	0	13	13	NICRA
33	FPO management	FPO	20/10/22	1	PF	1	OFF	1	0	3	1	0	36	2	0	39	41	FPO
34	FPO management	FPO	17/10/22	1	PF	1	OFF	12	0	6	13	0	8	25	0	14	39	FPO
35	FPO management	FPO	19/10/22	1	PF	1	OFF	0	0	0	15	4	5	15	4	5	24	FPO
36	FPO management	FPO	28/10/22	1	PF	1	OFF	4	0	8	1	1	13	5	1	21	27	FPO
37	Post harvest technology of Ragi	PHM	04/11/22	1	PF	1	OFF	4	0	0	0	1	27	4	1	27	32	DAD

SN	Title	Thematic Area	Month/Date	Duration	Client (PF/RY/EF)	No. of course	Venue	Male			Female			Total				Sponsored
								Others	SC	ST	Others	SC	ST	Others	SC	ST	Total	
38	Post harvest technology of Ragi	PHM	05/11/22	1	PF	1	OFF	0	0	0	1	0	33	1	0	33	34	DAD
39	Post harvest technology of Ragi	PHM	09/11/22	1	PF	1	OFF	0	0	0	36	0	18	36	0	18	54	DAD
40	Post harvest technology of Ragi	PHM	10/11/22	1	PF	1	OFF	0	0	0	6	0	18	6	0	18	24	DAD
41	Post harvest technology of Ragi	PHM	11/11/22	1	PF	1	OFF	0	0	3	2	0	17	2	0	20	22	DAD
42	Post harvest technology of Ragi	PHM	12/11/22	1	PF	1	OFF	0	0	1	18	2	16	18	2	17	37	DAD
43	Post harvest technology of Ragi	PHM	14/11/22	1	PF	1	OFF	0	0	0	5	0	21	5	0	21	26	DAD
44	Post harvest technology of Ragi	PHM	16/11/22	1	PF	1	OFF	1	0	1	13	1	16	14	1	17	32	DAD
45	Post harvest technology of Ragi	PHM	18/11/22	1	PF	1	OFF	0	0	0	5	0	27	5	0	27	32	DAD
46	Post harvest technology of Ragi	PHM	17/11/22	1	PF	1	OFF	1	0	0	19	1	12	20	1	12	33	DAD
47	Cattle farming	Cattle farming	02/11/22	1	PF	1	OFF	0	0	5	0	0	15	0	0	20	20	
48	Post harvest technology of Ragi	PHM	19/11/22	1	PF	1	OFF	2	0	2	12	0	13	14	0	15	29	DAD
Total						**48**	**0**	**72**	**3**	**359**	**318**	**15**	**717**	**390**	**18**	**1076**	**1484**	
1	Skill training on medicinal and aromatic and NTFP of medicinal plant professional	Medicinal and aromatic and NTFP	24-26/03/2022	3	EF	1	ON	14	1	7	3	0	5	17	1	12	30	Medicinal project
Total						**1**	**0**	**14**	**1**	**7**	**3**	**0**	**5**	**17**	**1**	**12**	**30**	
Grand Total						**100**	**0**	**249**	**12**	**1218**	**416**	**18**	**1158**	**665**	**30**	**2376**	**3071**	

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops	20	50	44	94	213	131	344	263	175	438
Commercial production of vegetables	1	1	0	1	7	8	15	8	8	18
Production and value addition	7	49	9	58	242	106	348	291	115	406
Fruit Plants	0	0	0	0	0	0	0	0	0	0
Ornamental plants	0	0	0	0	0	0	0	0	0	0
Spices crops	0	0	0	0	0	0	0	0	0	0
Soil health and fertility management	5	2	0	2	96	63	159	98	63	161
Production of Inputs at site	0	0	0	0	0	0	0	0	0	0
Methods of protective cultivation	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	**33**	**102**	**53**	**155**	**558**	**208**	**866**	**660**	**361**	**1023**
Post harvest technology and value addition	0	0	0	0	0	0	0	0	0	0
Processing and value addition	2	0	0	0	32	0	32	32	0	32
Other	0	0	0	0	0	0	0	0	0	0
Total	**2**	**0**	**0**	**0**	**32**	**0**	**32**	**32**	**0**	**32**
Farm machinery	0	0	0	0	0	0	0	0	0	0
Farm machinery, tools and implements	1	13	5	18	2	22	24	15	27	42
Other	2	0	0	0	21	12	33	21	12	33
Total	**3**	**13**	**5**	**18**	**23**	**34**	**57**	**36**	**39**	**75**
Livestock and fisheries	0	0	0	0	0	0	0	0	0	0
Livestock production and management	6	26	26	52	66	21	87	92	47	139
Animal Nutrition Management	0	0	0	0	0	0	0	0	0	0
Animal Disease Management	0	0	0	0	0	0	0	0	0	0
Fisheries Nutrition	0	0	0	0	0	0	0	0	0	0
Fisheries Management	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	**6**	**26**	**26**	**52**	**66**	**21**	**87**	**92**	**47**	**139**
Home Science	0	0	0	0	0	0	0	0	0	0
Household nutritional security	4	1	9	10	11	47	58	12	66	78
Economic empowerment of women	0	0	0	0	0	0	0	0	0	0
Drudgery reduction of women	1	0	0	0	0	0	21	0	21	21
Other										
Total	**5**	**1**	**9**	**10**	**11**	**47**	**79**	**12**	**87**	**99**
Agricultural Extension	0	0	0	0	0	0	0	0	0	0
Capacity Building and Group Dynamics	0	0	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grant Total	**47**	**142**	**93**	**235**	**658**	**310**	**1121**	**832**	**534**	**1368**

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
Kisan Mela participated											
Field Day	30	329	180	509	**80**	**05**	-		329	180	509
Kisan Mela organized	0								0	0	0
Kisan Ghosthi	10	296	402	698	**80**				296	402	698
Exhibition	0								0	0	0
Film Show	5	67	28	95	**80**				67	28	95
Method Demonstrations	10	112	59	171	**80**				112	59	171
Farmers Seminar	0								0	0	0
Workshop Training of soil health card beneficiary and kharif workshop	12	409	109	518	**80**				409	109	518
Group meetings	5	62	22	84	**80**				62	22	84
Lectures delivered as resource persons	1	50	0	50	**80**				50	0	50
Advisory Services	59	413	179	592	**80**				413	179	592
Scientific visit to farmers field	160	548	148	696	**80**				548	148	696
Farmers visit to KVK	100	908	286	1194	**80**				908	286	1194
Diagnostic visits	0								0	0	0
Exposure visits	7	141	63	204	**80**				141	63	204
Ex-trainees Sammelan	3	0	45	45	**75**				0	45	45
Soil health Camp	3	96	31	127	**75**				96	31	127
Animal Health Camp	20	281	42	323	**80**				281	42	323
Agri mobile clinic		0	0	0					0	0	0
Soil test campaigns	2	77	36	113	**85**				77	36	113
Farm Science Club Conveners meet	0								0	0	0
Self Help Group Conveners meetings	5	0	50	50	**70**				0	50	50
Mahila Mandals Conveners meetings	0								0	0	0
Special Programmes (specify)	0								0	0	0
Sankalp Se Siddhi	0								0	0	0
Swatchta Hi Sewa	0								0	0	0
Any Other (Specify)	0								0	0	0
Any Other (Specify)	**0**								0	0	0
Help line	612	871	90	961	**65**				871	90	961
Clinical service	169	143	31	174	**65**				143	31	174
FAP conducted	30	652	497	1149	**75**				652	497	1149
Swachchta Programme	7	86	81	167	**80**				86	81	167
Farmer scientist interaction	3	201	82	283	**75**				201	82	283
FLD Training	20	155	152	307	**75**				155	152	307
Swachchta Mah	10	379	180	559	**75**				379	180	559
TSP input distribution	20	597	240	837	**80**				597	240	837
Crop cutting	12	23	222	245	**80**				23	222	245
Natural farming awareness	24	535	329	864	**90**				535	329	864

Nature of Extension Activity	No. of activities	Farmers				Extension Officials			Total		
		M	F	T	SC/ ST (% of total)	M	F	T	M	F	T
Agriculture knowledge at rural school	1	13	19	32	**65**				13	19	32
Input distribution under DBT	1	10	5	15	**65**				10	5	15
Input distribution under DRMR	2	37	27	64	**75**				37	27	64
Stall exhibition in kisan mela	2	263	72	335	**80**				263	72	335
Rabi workshop	5	244	21	265	**75**				244	21	265
FPO meeting	10	89	37	126	**75**				89	37	126
Krishi chaupal	8	424	277	701	**75**				424	277	701
ICAR student READY programme	1	11	14	25	**80**				11	14	25
RAWE programme	2	15	16	31	**80**				15	16	31
Live telecast programme	1	433	379	812	**90**				433	379	812
Workshop on solar energy	1	37	5	42	**75**				37	5	42
Baseline survey	3	40	54	94	**75**				40	54	94
Soil sample testing	1	9	7	16	**80**				9	7	16
Live telecast of PM programme	1	23	17	40	**80**				23	17	40
Jal shakti abhiyan	2	192	109	301	**90**				192	109	301
Technology week	1	344	237	581	**75**				344	237	581
Har ghar tiranga	1	12	19	31	**80**				12	19	31
National campaign on poshan abhiyan and tree plantation (17 sep)	1	61	70	131	**75**				61	70	131
Extention literature distributed	17	331	373	704	**72**				331	373	704
Total	**975**	**10019**	**5342**	**15361**					**10019**	**5342**	**15361**

B. Other Extension activities

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Newspaper coverage	51									
Radio talks	03									
TV talks	12									
Popular articles	-									
Extension Literature distributed	17									
Extension Literature Published	-									
mKisan portal	12	290935	0	290935				290935	0	290935
Bulletine issued	104	29045	0	29045				29045	0	29045
Daily weather forecast	264	20945	0	20945				20945	0	20945
Whatsapp advisory	19	7729	344	8073				7729	344	8073

C. Celebration of important days

Celebration of Important Days	No. of activities	Farmers				Extension Officials			Total		
		M	F	Total	SC/ ST (% of total)	M	F	Total	M	F	Total
Kisan samman diwas-23 Dec (Online)	1	72	150	222	78				72	150	222
National girl child day (24 jan)	1	0	43	43	78				0	43	43
Republic Day (26 Jan)	1	41	10	51	78				41	10	51
World pulse day (24 feb)	1	32	6	38	78				32	6	38
Bharat bharti bhasha mahotsawa (22 feb)	1	28	2	30	78				28	2	30
World Women Day (8 Mar)	1	8	168	176	78				8	168	176
World water day (22 mar)	1	30	0	30	78				30	0	30
National lac day (16 may)	1	8	17	25	78				8	17	25
World bee day (20 may)	1	21	24	45	78				21	24	45
International Yoga day (21 June)	1	80	69	149	78				80	69	149
World Environment day (5 June)	1	22	27	49	78				22	27	49
ICAR foundation day (16th July)	1	102	231	333	78				102	231	333
Vishwa Aadiwasi diwas (9th Aug)	1	22	13	35	78				22	13	35
Parthenium awareness week (16-22 Aug)	1	48	8	56	78				48	8	56
Independence day (15 aug)	1	40	60	100	78				40	60	100
Nutrition week (1-7 sep)	5	10	154	164	78				10	154	164
Mahila kisan diwas (15th Oct)	1	3	18	21	78				3	18	21
World food day (16th October)	1	14	6	20	78				14	6	20
World soil day (5 Dec)	1	40	63	103	78				40	63	103
Krishi shiksha diwas (3 dec)	1	0	51	51	78				0	51	51
Total	**24**	**621**	**1120**	**1741**					**621**	**1120**	**1741**

D. Interaction/Live telecast programme of Hon'ble PM/Hon'ble AM

Sl.	Date of event	Name of Event/Programme	Interaction of Hon'ble PM/AM	Participants			
				Farmers	Staffs	VIP/Others	Total
1	01/01/22	PM Kisan Samman Nidhi Fund Release Programme	PM	51	4		55
1	31/05/22	Garib kalian samman	PM	812	14		812
2	17/10/22	Inaugural function of Agri-Startup Conclave and Kisan Sammelan. Nutrition and Plantation Programme	PM	322	12		322

3.5 a Production and supply of Technological products

Village seed

SL	Name of Group	Crop	Variety	Total Production (Q)	Area (ha)
1	-	-	-	-	

KVK farm

Crop	Variety	Quantity of Seed (q)	Tentative Value (Rs)	Number of farmers provided
Rabi 2021-22				
Mustard	PM-30	2.51	27390.00	Income & Farm use
Redgram	Rajiv Lochan	2.33	25300.00	
Wheat	Sabour nirjal, HD-3110, K-8027, DBW-187, HD-2967	8.62	31360.00	
Total		**13.46**	**84050.00**	
Kharif 2021-22				
Paddy	Shabhagi	74.0	148000.00	Stock in hand
Paddy	Rajendra Kasturi	2.0	4000.00	
Paddy	Swarna shreya	6.0	12000.00	
Ragi	BM-3	1.0	3500.00	
Dhaincha	Local	2.08	10400.00	
Niger	Birsa niger-3	1.96	19600.00	
Sesame	Kanke safed	0.70	7000.00	
Total		**87.74**	**204500.00**	
Grand Total		**101.20**	**288550.00**	

Production of planting materials by the KVKs

Crop	Variety	No. of planting materials	Value (Rs)	Provided to number of farmers
Vegetable seedlings				
Tomato	Rukmani (Hybrid)	2250	450.00	Used in farm
Tomato	Swarna Sampada (Hybrid)	2550	510.00	Distribution among 13 ST farners & Farm use
Brinjal	VNR-218	1625	325.00	Used in farm
Brinjal	Swarna Pratibha	2010	402.00	Used in farm
Cauliflower	Bishop RZ F1 (Hybrid)	1250	250.00	Used in farm
Cabbage	Wonder ball	1525	305.00	Used in farm
Total		**11210**	**2242.00**	**13 ST Farmers**
Fruits				
Papaya	Ranchi Papaya	1400	7000.00	Sell and distributed among 117 farmers (STM-55,ST F -55, OthF-02, OthM-3, SCF-1, SCM-1)
Mango	Amrapali	-	-	350 plants Distributed among 240 farmers through convergence of vikas bharti (STM-64,ST F -151, OthF-11, OthM-13, SCM-1)
Mango rootstock	Local	4000	20000	Stock
Dragon	Red American Benty	200	1000.00	Stock
Total		**5600**	**28000.00**	**357 farmers**
Ornamental plants				
Medicinal and Aromatic				
Lemongrass	Krishna	4500 slip	2250.00	Stock
Pamarosa	PRC-1	1500 slip	750.00	Stock
Total		**6000**	**3000.00**	
Plantation				
Spices				
Chilli	F1 Anu	1050	210	Used in farm
Total		**1050**	**210**	
Tuber				
Flower				
Fodder crop saplings				
Napier	Pusa Jaint	2000	1000	Sell & Stock
Total		**2000**	**1000**	
Forest Species				
Total		**25860**	**34452**	

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity	Value (Rs.)	No. of Farmers
Bio Fertilizers	Vermicompost	161 Q	161000.00	Sell & Farm sue
Bio-pesticide	Jeevamruth	8600 lit	129000.00	Sell & farm use
	Ghanjeevamrth	3.0 q	3000.00	Used in natural farming plot
	Beejamruth	60 lit	900.00	
Total		**164.0 q 8660 lit**	**293900.00**	

Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animal	Cross breed	06	140000.00	Stock in hand
Cow	-			
Buffalos	-			
Claves (She Cow)	Cross breed	09	90000.00	Stock in hand
Male claves (Cow)	-	04	18000.00	Stock in hand
Others (Pl. specify)	-			
Poultry	-	11	3000.00	Stock in hand
Broilers	-			
Layers	-			
Duals (broiler and layer)	-			
Japanese Quail	-			
Turkey	-			
Emu	-			
Ducks	Indian runner	10	2400.00	Sell (08) Mortality (02)
Others	-			
Piggery	Jharsook	14	112000.00	Stock in hand (14)
Piglet		34	136000.00	Stock in hand(01) Sell (25) Mortality (08)
Others (Pl. specify)	-			
Goat	Black Bengal	12	120000.00	Stock in hand
Goat (kid)		10	50000.00	Sell
Fisheries	Composite fish	0.16 Q	1920.00	Used in village (Salam)
Indian carp	-			
Exotic carp	-			
Others (Pl. specify)	-			
Grand Total		**80 & 0.16q**		

3.5. b. Seed Hub Programme-*"Creation of Seed Hubs for Increasing Indigenous Production of Pulses in India" :* NOT APPLICABLE

i) Name of Seed Hub Centre:

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

ii) Quality Seed Production Reports

Season	Crop	Variety	Production (q)			
			Target	Area sown (ha)	Production	Category of Seed (F/S, C/S)
Kharif 2017						
Rabi 2017-18						
Summer/Spring 2018						

iii) Financial Progress

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

iv) Infrastructure Development

Item	Progress
Seed processing unit	
Seed storage structure	

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

Item	Title	Authors name	Number	Circu-lation
Research paper	Resilience through water conservation and adoption of drought tolenant crop variety in NICRA Gunia, Gumla, Jharkhand	Sanjay Kumar, Atal Bihari Tiwari, Subhyan Das	1	
Seminar/conference/ symposia papers				
Research paper				
Books				
Bulletins	GKMS	Dr. Sanjay Kumar, Yogesh Kumar	1	
Bulletins				
News letter	KVK News letter	Sanjay Kumar, Atal Bihari Tiwari, Sweta Viswakarma	500	
Popular Articles				
Book Chapter				--
Extension Pamphlets/ literature	Distribution 1. Aam Bagicha prabandhan 2. Oal ki kheti 3. Mushroom		500 each	
Technical reports	1. Annual report ARYA 2. Annual report NICRA 3. Annual Report KVK 4. Report Bio Tech KISAN 5. Report GKMS Project 6. Annual report CFLD		01 each	
Electronic Publication (CD/DVD etc)	Success story in ARYA project		01	

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

S. No.	Name of programme	Name of KVK personnel and designation	Date and Duration			Organized by
			From	To	Duration	
1	NICRA Workshop at CRIDA	Dr. Sanjay Kumar, Senior Scientist & Head	22/07/22	24/07/22	03	CRIDA Hyderabad
2	NICRA Workshop at CRIDA	Atal Bihari Tiwari, SMS Plant Protection	22/07/22	24/07/22	03	CRIDA Hyderabad
3	NICRA Workshop at CRIDA	Shubhayan Das, SRF NICRA	22/07/22	24/07/22	03	CRIDA Hyderabad
4	OFT Finalization workshop on Agriculture Engineering at DRPCAU Pusa	Er. Eno Rai, SMS Ag. Eggg	13/09/22	-	01	ATARI Patna
5	OFT Finalization workshop on Plant Protection at ICAR-ATARI, Patna	Atal Bihari Tiwari, SMS Plant Protection	29/09/22	30/09/22	02	ATARI Patna
6	OFT Finalization workshop on Veterinary/ Fishries Science at BASU, Patna	Dr. Binod Kumar, SMS Ani. & Vet. Science	27/09/22	28/09/22	02	ATARI Patna
7	OFT Finalization workshop on Agronomy/ Soil Science at BAU Sabour	Dr. Sanjay Kumar, Senior Scientist & Head	01/09/22	03/09/22	03	ATARI Patna
8	OFT Finalization workshop on Agronomy/ Soil Science at BAU Sabour	Dr. Neeraj Kumar Vaishya, SMS Soil Science	01/09/22	03/09/22	03	ATARI Patna
9	OFT Finalization workshop on Home Science at DRPCAU Pusa	Dr. Nisha Tiwari, SMS Home Science	14/09/22	15/09/22	02	ATARI Patna
10	OFT Finalization workshop on Horticulture at BAU Sabour	Sunil Kumar, SMS Horticulture	23/09/22	24/09/22	02	ATARI Patna
11	International Conference on Reimagining Rainfed Agroecosystems: Challenges & Opportunities at CRIDA Hyderabad	Dr. Sanjay Kumar, Senior Scientist & Head	22/12/22	24/12/22	03	ISDA along with ICAR-CRIDA
12	International Conference on Reimagining Rainfed Agroecosystems: Challenges & Opportunities at CRIDA Hyderabad	Atal Bihari Tiwari, SMS Plant Protection	22/12/22	24/12/22	03	ISDA along with ICAR-CRIDA

S. No.	Name of programme	Name of KVK personnel and designation	Date and Duration			Organized by
			From	To	Duration	
13	International Conference on Reimagining Rainfed Agroecosystems: Challenges & Opportunities at CRIDA Hyderabad (Online)	Shubhayan Das, SRF NICRA	22/12/22	24/12/22	03	ISDA along with ICAR-CRIDA
14	National workshop on Natural Farming held at RVSKVV, Gwalior	Dr. Neeraj Kumar Vaishya, SMS Soil Science	03/12/22	-	01	
15	Two days Training programme at Gurukul, Kurukshetra on (8-9/12/22)	Dr. Neeraj Kumar Vaishya, SMS Soil Science	08/12/22	09/12/22	02	

3.7. Success stories/Case studies

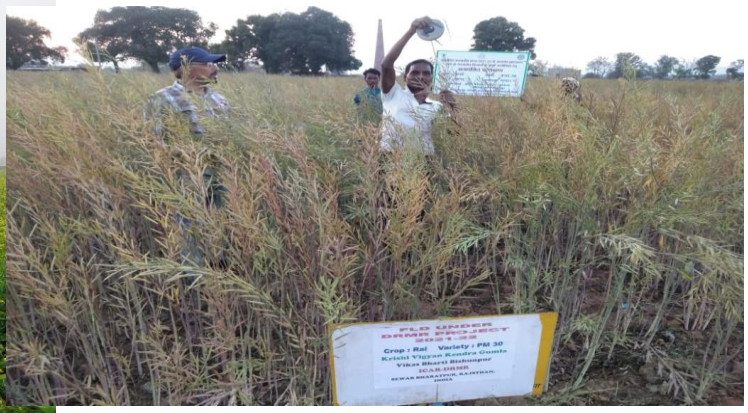
Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Dr. Neeraj Kumar Vaishya, SMS, Soil Science
Title – Sustainable income through mustard Cultivation

Name of Farmer	:	Shobha Devi	
Address	:	Village : Khatanga, Block : Ghaghra, District : Gumla (Jharkhand)	
Contact details (Phone No. & email ID)	:	8292666648	
Landholding (in ha)	:	1.2	
Name and description of the farm/enterprise	:	Mrs. Shobha Bhagat is a 38-year-old Scheduled Tribe woman from Khatanga village of Ghaghra block. She has studied till matriculation, after that she got married, coming to her in-laws house and joining Mahila Mandal, she built a shed for rearing 1000 chickens per batch to run her group well as well as join self-employment. Started poultry farming, 1000 chickens per batch are reared, in this way 5-6 batches of chickens are done in a year, which gives them a net profit of 115000 -125000 in a year, they organized the women of their village and started new Keeps searching for new dimensions that how to improve the economic condition of the people. In this direction, in the Rabi season of the year 2021-22, from Krishi Vigyan Kendra Gumla Vikas Bharti Bishunpur, the women of their village will be given D.R.M.R. While giving training under the project, PM-30 species of mustard crop was observed. The farmers of this village used to do mixed farming of mustard, but under demonstration only mustard crop was swoned in their fields with balanced fertilizer management, then they got good production from their fields, seeing that they used only mustard sowing in other years.	
Economic impact	:	Shobha Devi had planted the only mustard crop in 1 acre in the year 2021-22, in which she got 6.25 quintal production, keeping it for her requirement, sale the remaining 5 quintal mustard to the market at rupees 6500 per quintal, which earned additional total income of 32500. She was very happy by selling it, as well as she got the privilege of eating pure mustard oil in her house for years.	
Environmental impact	:	In today's time, the demand of mustard oil is increasing day by day. The farmers of Gumla district mainly used to do mixed farming of mustard, but under the FLD and DRMR project of Krishi Vigyan Kendra, Gumla, and every year 200 to 250	

		farmers in the district do only mustard crop in 100 hectares. Seeing this, the farmers are increasing the mustard crop, as well as their income is also getting better and the cost is also coming down. Farmers are earning up to 1:3.5 from mustard cultivation.
Horizontal/vertical spread	:	After seeing the successful Mustard crop only, maximum farmers are inspired and start it in their land also. And many farmers in their village have also started Mustard farming only. Farmers are also realizing that supply of edible oil is not possible in future without cultivation of mustard only.



Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Dr. Neeraj Kumar Vaishya, SMS, Soil Science
Title – Balanced use of fertilizer in Ragi production proved to be a boon for the farmer

Name of Farmer	:	**Shiv Sankar Singh**
Address	:	**Village : Kamta, Panchayat : Salegutu Block : Kamdara, District : Gumla (Jharkhand)**
Contact details (Phone No. & email ID)	:	**7258096799**
Landholding (in ha)	:	1.4
Name and description of the farm/enterprise	:	The village of Shiv Shankar Singh is 65 km away from district office and 115 km from Krishi Vigyan Kendra office. Due to the large amount of Tand land in their village, the farmers here cultivate Maduva in large quantities, but their production (8-10 quintals) per hectare is much less than the national and state average production. The scientists of Krishi Vigyan Kendra in his village went to the farmers under the program on the farmer's farm and got the experience of the farmers cultivating Mahua, after that the scientists of the KVK decided that the farmers should be shown to the farmers by doing On Farm Trial (OFT) in this village. That balanced nutrient management will increase crop production which is essential for crops. At the same time, the fertility of the soil will also increase.
Economic impact	:	In Kharif-2020, field trials were conducted on the field of Shiv Shankar Singh by Krishi Vigyan Kendra Gumla, Vikas Bharti Bishnupur. In which two more treatments were taken along with farmer's method, in which treatment number - 1 with farmer's method + foliar spray of potassium nitrate was done on 20 days 40 days and in treatment number - 2, the

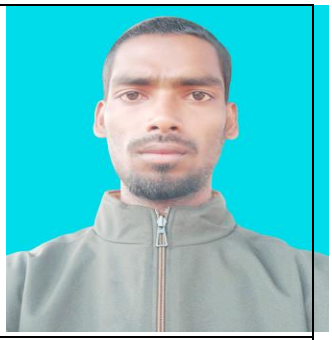
		recommender quantity of fertilizer (40:30:20) per N: P_2O_5:K_2O the On Farm Trial was completed by getting it delivered at the rate of hectare. Under which the best production came at the rate of 18.68 quintals per hectare in treatment number - 1 and 17 quintals per hectare in treatment number - 2, which was 6 quintals per hectare more than the farmer's yield, due to which the farmer got additional income Rs. 18000 per hectare more.
Environmental impact	:	The farmers adopted the suggestion given by the KVK scientist during On Farm Trial conducted in the year – 2020. The farmers consider both treatment 1st and 2nd better than the farmer technology. Managing the balanced amount of nutrients in the crop, its production cane be increased if we do the 4R approach by the farmer. At the same time the fertility of the soil will also remain.
Horizontal/vertical spread	:	Impact of balance use of fertilizer encourage more farmers of village kamta/salegutu. Many farmers of the village were excited to see the result of balance use of fertilizers done in ragi crop on Shiv Sankar Singh field and expressed their happiness to adopt this technology to implement this balanced nutrient management for summer and rabi crop used in due to which his yield was huge, he remained close to state and the national, which increased his income as well as helped a lot in the livelihood. Farmers are coming forward to advance balance nutrient management technology.

Krishi Vigyan Kendra Gumla

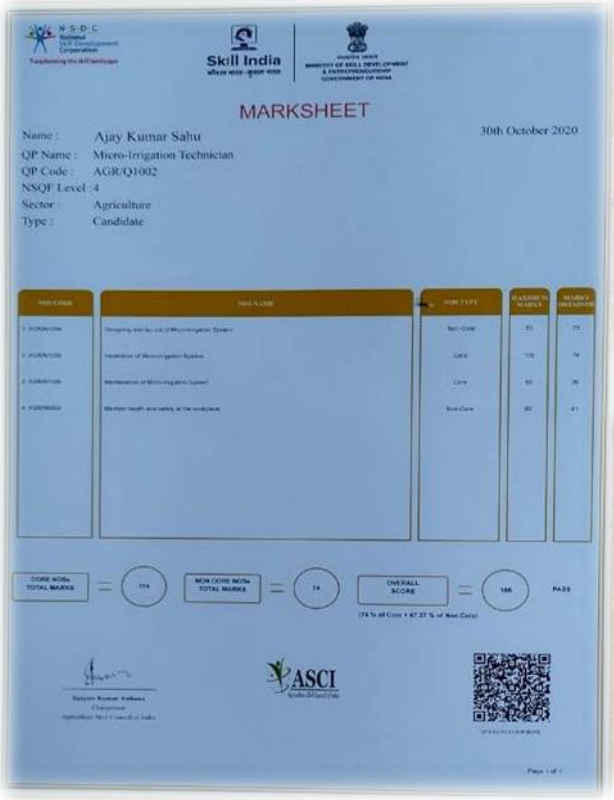
Vikas Bharti Bishunpur

Name of Documenter – Er. Eno Rai, SMS, Agriculture Engineering
Title – Empowerment of Rural youth through Micro Irrigation

Name of Farmer	:	Mr. Ajay Kumar Sahu
Address	:	Fasiyabartoli, Block Gumla, District Gumla (Jharkhand)
Contact details (Phone No. & email ID)	:	8789947723 ajay75848@gmail.com
Landholding (in ha)	:	0.4
Name and description of the farm/enterprise	:	Mr. Sahu, 24 years old inter pass from Gumla district. In March 2019 he got training from Krishi Vigyan Kendra Gumla, Vikas Bharti Bishunpur under Micro Irrigation Technician, Agriculture Skill Council of India, New Delhi and in October 2021, Flora Tech Pvt. Ltd contacted with KVK for those youths, who got training on Micro Irrigation technicians from KVK in past years. Mr. Sahu willing to work as a technician not on salary basis but on contract basis. At the beginning, he was started only Rs.2000 per acre for drip irrigation system installation in farmers field at Ranchi district. Within two years he successfully installed micro irrigation system in more than 200 acres at farmers field of Kuthi, Lohardaga, Ranchi and Gumla district.
Economic impact	:	Within 5-6 moths he understand the entire system and he started charging Rs. 4000 to Rs. 5000 thousand per acre and now he is experience and capable to install micro irrigation system in 12 to 15 units in a month it means he is earning money Rs.60000 to 70000 thousand per month for 8 to 10 months in a year. On an average his monthly gross earning is Rs.45000 thousand. With his inner confidence he is target to open his own shop of irrigation system at Gumla town by 2024.
Environmental impact	:	Now a days, day by day irrigation water scarcity is increasing drastically in the world. Farmers of Gumla district has been also depending on the ground water resources like open wells but it is not possible to irrigate the 2-3 acres by single well. In this case the micro irrigation system technique is most suitable to irrigate in large area with the help of finite irrigation water source. Now all farmers are aware of that micro irrigation system is not only save



		water but its saves fertilizer also with fertigation system. It's not only helps to reduce irrigation water but its helps to reduce chemicals pollution in the soil also.
Horizontal/vertical spread	:	After seeing the successful farming system on micro irrigation base at farmers field, maximum farmers are motivated and started same in his own land also and the remaining many farmers has also applying application at agriculture office for micro irrigation system under Pradhanmantri Krishi Sichai Yojana. The farmers are also realizing that in future agriculture farming is not possible without micro irrigation.



MARKSHEET

30th October 2020

Name : Ajay Kumar Sahu
QP Name : Micro-Irrigation Technician
QP Code : AGR/Q1002
NSQF Level : 4
Sector : Agriculture
Type : Candidate

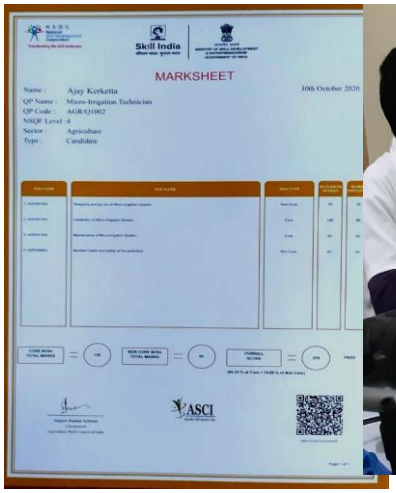
Krishi Vigyan Kendra Gumla

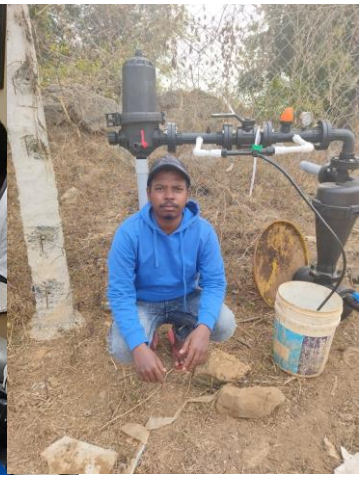
Vikas Bharti Bishunpur

Name of Documenter – Er. Eno Rai, SMS, Agriculture Engineering
Title – Empowerment of Rural youth through Micro Irrigation

Name of Farmer	:	Mr. Ajay Kerketta	
Address	:	Umra Nawatoli, Block Gumla, District Gumla (Jharkhand)	
Contact details (Phone No. & email ID)	:	7479415653 ajay75848@gmail.com	
Landholding (in ha)	:	0.8	
Name and description of the farm/enterprise	:	Mr. Kerketta, 27 years old inter pass from Gumla district. In March 2019 he got training from Krishi Vigyan Kendra Gumla, Vikas Bharti Bishunpur under Micro Irrigation Technician, Agriculture Skill Council of India, New Delhi and in October 2021, Flora Tech Pvt. Ltd contacted with KVK for those youths, who got training on Micro Irrigation technicians from KVK in past years. Mr. Kerketta willing to work as a technician not on salary basis but on contract basis. At the beginning, he was started only Rs.2000 per acre for drip irrigation system installation in farmers field at Ranchi district. Within two years he successfully installed micro irrigation system in more than 200 acres at farmers field of Kuthi, Lohardaga, Ranchi and Gumla district.	
Economic impact	:	Within 5-6 moths he understand the entire system and he started charging Rs. 4000 to Rs. 5000 thousand per acre and now he is experience and capable to install micro irrigation system in 12 to 15 units in a month it means he is earning money Rs.60000 to 70000 thousand per month for 8 to 10 months in a year. On an average his monthly gross earning is Rs.45000 thousand. With his inner confidence he is target to open his own shop of irrigation system at Gumla town by 2024.	
Environmental impact	:	Now a days, day by day irrigation water scarcity is increasing drastically in the world. Farmers of Gumla district has been also depending on the ground water resources like open wells but it is not possible to irrigate the 2-3 acres by single well. In this case the micro irrigation system technique is most suitable to irrigate in large area with the help of finite irrigation water source. Now all farmers are aware of that micro irrigation system is not only save water but its saves fertilizer also with fertigation system. It's not only helps to reduce irrigation water but its helps to reduce chemicals pollution in the soil also.	

Horizontal/vertical spread	:	After seeing the successful farming system on micro irrigation base at farmers field, maximum farmers are motivated and started same in his own land also and the remaining many farmers has also applying application at agriculture office for micro irrigation system under Pradhanmantri Krishi Sichai Yojana. The farmers are also realizing that in future agriculture farming is not possible without micro irrigation.





Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Dr. Nisha Tiwari, SMS, Home Science

Title – Mushroom Production –A key for success in living a quality life

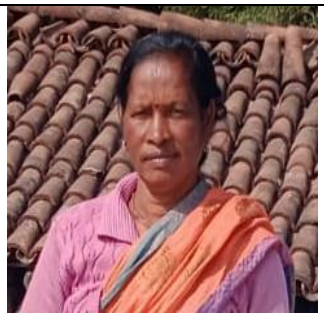
Name of farmer	Mrs. Sangita Devi	
Address	Village -Role, Panchayat- Amtipani Block- Bishunpur, District- Gumla	
Contact details (Phone, mobile, email Id)	9905843677	
Landholding (in ha.)	1.5	
Name and description of the farm/ enterprise	Mrs. Sangita Devi, 42 yrs. old, resident of village- role, Panchayat- Amtipani, Block-Bishunpur was dependent on farming only and earned about Rs 40,000 to Rs. 50,000 in a year which was insufficient to meet her expenses. So she was in search of doing highly remunerative enterprise which can secure her livelihood. In 2013, she started mushroom production but due to unavailability of spawn and lack of knowledge, she did not take it to a sustainable level. One day she contacted to KVK Gumla regarding training on oyster mushroom cultivation. In 2021 she acquired scientific knowledge and skill of mushroom cultivation and its value addition through training and demonstration and again she started her journey with mushroom cultivation to a large scale. In 2021, she prepared 300 mushroom bundles in a season and earned about Rs.70000 from the sale of 350 kg of mushroom. She sold her produce in local Bishunpur market and also to the other SHGs who were selling mushroom pickle.	
Economic impact	Selling fresh and dry mushroom she was getting an income of Rs. 40000/ in a season which makes her quite happy. With this growth in income she was able to provide proper education to her children and living a happy life. Now she is trying of taking Mushroom Production as a main source of income.	
Social impact	Mrs. Sangita is also a member of Chameli Self Help Group and other members were also motivated by her and they were focusing on its value added products. She not only empowered herself but also empowered other farm women of the village which helped her in getting good recognition in the society. For developing marketing channel, she had distributed work among all the members of the SHG like	

	roles for grower, seller, value addition of mushroom and waste management. Empowering women for their development was a major role played by her in defining, challenging and overcoming barriers in the life.
Environmental impact	Mushroom are gradually becoming popular as they are highly nutritious and having good medicinal values. Mushroom cultivation is an ecofriendly activity as it utilizes the waste from agriculture which are available in huge quantities in every villages and in turn it produces fruiting bodies with good nutritional and medicinal attributes. After harvesting of the bundle, the left over straw bundles were used for the vermin compost production by the members of the SHG.
Horizontal/ Vertical spread	Initially She started the journey with 20 mushroom bundles and due to lack of knowledge she skipped this idea in between her journey but after getting regular guidance from KVK Gumla she took it to a 500 bundles which multiplied her income from hundred to thousand. Seeing her success, other farm women of nearby villages were also involved in mushroom cultivation and also started to add it in their diet. Now Mushroom cultivation has adopted by the most of the farm women and SHGs also because of good income security and it has become a well-known enterprise in Gumla district.

Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Dr. Nisha Tiwari, SMS, Home Science
Title – Nutritional Garden brings Nutritional Security

Name of farmer	Mrs. Anjella Kerketta	
Address	Village -Bendi, Panchayat- Amtipani Block- Bishunpur, District- Gumla	
Contact details (Phone, mobile, email Id)	6202169324	
Landholding (in ha.)	01	
Name and description of the farm/ enterprise	Mrs. Anjella Kerketta was a successful Nutritional gardener from Bendi Village within Bishunpur block of Gumla District, was doing nutritional gardening in a very small area (0.008 ha). As she did not have prior knowledge of Nutritional gardening was not getting adequate quantity of vegetables around the years. In 2022 she came in contact with the scientist of Krishi Vigyan Kendra Gumla and showed her keen interest in Nutritional gardening and other technical support from the scientist. Being a hard working farm women she grasped the technology faster and adopted it. After getting scientific knowledge of nutritional garden and good quality vegetable seeds like Carrot, Beet, Brinjal, Cauliflower, Green leafy Vegetable, Chili, Coriander, Tomato, Radish, French bean etc, she developed nutritional garden in 300sqm and also planted fruit plants like Guava, Mango, Papaya, Drumstick etc.	
Economic impact	Initially she was developing Nutritional garden with constant encouragement because of this she was not able to get vegetables around the year. In 2022 after demonstration on Nutritional Garden and regular follow up by the KVK Scientist at her field, area under Nutritional garden was increased to 300sqm. which was able to full fill food diversity in the diet of her family members. It had also reduced reliance	

	on market for introduced vegetables and fruits. With this Nutritional garden she was happy to enhance Nutritional security and also income security for her family. She earned about Rs. 2500.00 per month from the sale of surplus vegetables.
Social impact	Through Nutritional garden her family members were Nutritionaly secured because of intake of all nutrient's like proteins, vitamins and minerals in their diets and this motivated other family of her village for including balanced and healthy diet in their meal. She was a key person for other farm women in developing Nutritional garden in their land.
Environmental impact	With the adoption of short duration varieties of vegetables and ridge method planting under Nutritional garden, the water saving was found up to 10-15%.
Horizontal/ Vertical spread	By seeing Mrs. Anjella Kerketta's effort almost all the farm women of her surrounding villages have adopted Nutritional garden at their own land for enhance their income and Nutritional securities both.

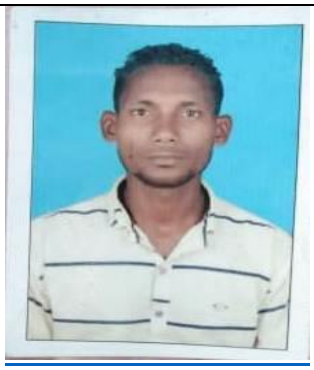
Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Dr. Binod Kumar, SMS, Animal & Vet. Science

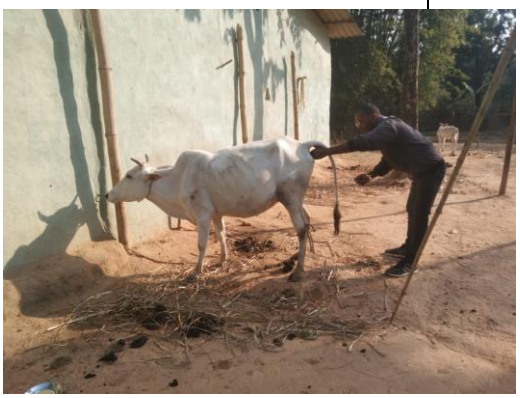
Title – Income enhancement through Para Vet

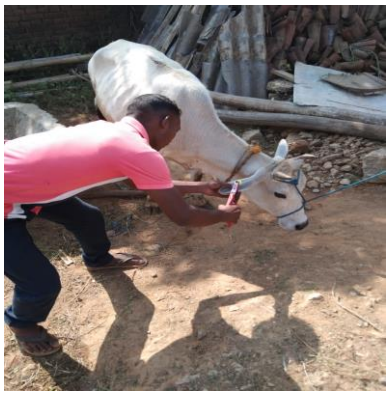
Name of farmer	Lalmohan Oraon
Address	S/O Birsal Oraon Village -Dardag, PS- Ghaghra, Shivrajpur Gumla, Totambi, Jharkhand PIN-835208
Contact details (Phone, mobile, email Id)	7033467371
Landholding (in ha.)	01



Name and description of the farm/ enterprise	Lalmohan Oraon a 26 years old inter belongs to a poor family, He is having very small land holdingand also rearing 2 bullocks, 1 buffalow and 2 cows. It was very difficult to run the family. Sometimes called on Dr. Naresh, a retired veterinary doctor to look after the animals. During the conversation he desired to assist him in his work. Dr. naresh agreed to keep him as his assistant. Dr. Naresh was providing a lump sum amount. Dr. Naresh suggested him to get training of paravet and others related to animal haealh. He contacted to Krishi vigyan Kendra Gumla, Vikas Bharti Bishunpur. Fortunately 7 days training (56 hours) on Animal para vet have been awarded by ICAR to KVK Gumla during the year 2017 and it was going to start. Lal Mohan Oraon was enrolled as one of the trainees and he completed the training programme successfully. Again he got an opportunity to participate in 7 days training programme organized by Animal husbandry department, Goj at Ranchi. After getting two training his confidence build up. Department of Animal husbandry supported him with Cryocan of 20 l and 3 l capacity. AI gun with the accessories as post training support. He purchased a new motor cycle and fit the cryocan and AI gun. Now he started to provide the services as Animal Para vet health worker. Time to time he visits KVK for technical advice. Now Dr.Naresh has became too old as was unable to attend the call and he was referring the case to Mr. Lal Mohan Oraon. He is purchasing inputs like LN-2 and Simen of cattle by private party. In this way he started AI and veterinary first aid to the animals on payment basis. Day by day his practices take off in whole panchayat of shivrajpur of Ghaghra block. Lack of veterinary doctors in the veterinary hospitals was an opportunity for him. He became the first choice of the animal rearers for AI and disease management.

Economic impact	Before his job as an Assistant of a veterinary doctor he was unemployed and struggling for his livelihood. Presently he is earning about Rs. 15000/- per month as net income. He is happy with his earnings. His children are studying in a private public school.
Social impact	He is providing services to the animal rearer of whole shivrajpur panchayat. His success in this field provided him recognition in the society.
Environmental impact	Due to his services the spread of contagious diseases in animals like PPR, FMD, HSBQ etc has reduced.
Horizontal/ Vertical spread	Initially he services from his village i'e Shivrajpur within a span of 2 years he covered the villages like Tunjo, Hutar, Twajadih, SHivrajpur, Chechepath, Dardag, Sehal, Barkadih, Gudadih and Nauni of Ghaghra block of Gumla district. Gradually the number of customers is increasing and his area of services is spreading





Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Mr. Sunil Kumar, SMS, Horticulture

Title – Income enhancement through Commercial Cultivation of Tomato

Name of farmer	Sukhram Bhagat
Address	Village – Tapkara, Post- Tapkara Block – Palkot, Dist – Gumla
Contact details (Phone, mobile, email Id)	9939810284
Landholding (in ha.)	1.5 ha

Name and description of the farm/ enterprise	Mr. Sukhram Bhagat, age 29 years of palkot block of Gumla district is a farmer by profession. He has land holding of 1.5 hectare of which 1.0 hectare land is cultivated by paddy crop and 0.5 hectare of land is cultivated by tomato respectively by traditional farming techniques and attain an annual income of rupees 50000-55000. Due to lack of modern techniques of farming he could not achieve high returns from his farming. He was feeling immense problem to look after his family under these circumstances
Economic impact	Mr. Bhagat was trained to commercial vegetable cultivation like tomato crop their varieties, especially disease resilient seed treatment, raised nursery in pro-tray and modern techniques of farming. After receiving training Mr Bhagat cultivated tomato crop in 1.0 ha of his land considering the market situation and achieved a cost benefit ratio of one ratio 3.11 and his net return income was 180000 rupees. After this success Shri Bhagat has become an inspiration for the other farmers of his village.

Economics of the enterprise Income

Income level before KVK intervention

Crop	Area (ha)	Gross expenditure (in Rs.)	Gross return (in Rs.)	Net Profit (in Rs.)	B:C
Paddy	1.0	21000	32500	11500	1.54
Tomato	0.5	32500	75000	42500	2.30

Income level after KVK intervention

Crop	Area (ha)	Gross expenditure (in Rs.)	Gross return (in Rs.)	Net Profit (in Rs.)	B:C
Tomato	1.0	85000	265000	180000	1:3.11

Social impact	Shri Bhagat is having good economic returns and now can look for better education for his children and lead a sustainable livelihood in society and has a Happy family. He is now an inspiration for farmers of his community.

Environmental impact	Short duration tomato variety is save 10 -15% of water and tomato is a low water requiring crop and high income.
Horizontal/ Vertical spread	Shri Bhagat started this new initiative of tomato cultivation in his field which not only proved to be beneficial for his economical amelioration but also brought positive change among the rural villagers of palkot block where 20 hectare of land on which 30 farmers of 3 villages are associated with tomato cultivation. This positive change observed for boosting the economic and social standard among the ruler farmers of Gumla district towards vegetable cultivation.

Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Mr. Sunil Kumar, SMS, Horticulture

Title – Income enhancement through Commercial Cultivation of Brinjal

Name of farmer	Gosner Guria
Address	Village – Orbenga Chapatoli, Block – Palkot, Dist – Gumla
Contact details (Phone, mobile, email Id)	6201635671
Landholding (in ha.)	1.0 ha

Name and description of the farm/ enterprise

Mr. Gosner Gudiya, age 41 years of palkot block of Gumla district is a farmer by profession. He has land holding of 1.0 hectare of which 0.5 hectare land is cultivated by paddy crop and 0.5 hectare of land is cultivated by brinjal respectively by traditional farming techniques and attain an annual income of rupees 45000-50000. Due to lack of modern techniques of farming he could not achieve high returns from his farming. He was feeling immense problem to look after his family under these circumstances.

Economic impact

Mr. Gosner Gudiya was trained to commercial cultivation like brinjal crop their varieties, short duration, disease resistant, seed treatment, raised nursery in pro-tray and modern techniques of farming. After receiving training Mr Gudiya cultivated brinjal crop in 1.0 ha of his land considering the market situation and achieved a cost benefit ratio of 1:3.14 and his net return income was 150000 rupees. After this success Shri Gosner has become an inspiration for the other farmers of his village.

Economics of the enterprise Income

Income level before KVK intervention

Crop	Area (ha)	Gross expenditure (in Rs.)	Gross return (in Rs.)	Net Profit (in Rs.)	B:C
Paddy	0.5	11500	16900	5400	1.46
Brinjal	0.5	35000	80000	45000	2.28

Income level after KVK intervention

Crop	Area (ha)	Gross expenditure (in Rs.)	Gross return (in Rs.)	Net Profit (in Rs.)	B:C
brinjal	1.0	70000	220000	150000	3.14

Social impact

Shri Gosner is having good economic returns and now can

	look for better education for his children and lead a sustainable livelihood in society and has a Happy family. He is now an inspiration for farmers of his community.
Environmental impact	Short duration brinjal variety and ridge method planting is save 25-30% of water and brinjal is a low water requiring crop and high income.
Horizontal/ Vertical spread	Shri Gosner started this new initiative of brinjal cultivation in his field which not only proved to be beneficial for his economical amelioration but also brought positive change among the rural villagers of palkot block where 30 hectare of land on which 45 farmers of 5 villages are associated with brinjal cultivation. This positive change observed for boosting the economic and social standard among the ruler farmers of Gumla district towards vegetable cultivation.

Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Mr. Atal Bihari Tiwari, SMS, Plant Protection

Title – Introduction of improve Groundnut variety (TG-51) & ICM.

<table>
<tr><td>Name of KVK</td><td>Gumla</td></tr>
<tr><td>Crop and variety</td><td>Groundnut, Variety – TG-51</td></tr>
<tr><td>Name of farmer & address</td><td>Smt. Tijan Devi
Village – Kesipara
Block – Gumla
District – Gumla
Mobile - 7740016239</td></tr>
<tr><td>Background information about farmer field</td><td>Field selected for implementation of CFLD of Smt. Tijan Devi was rainfed upland. The soil status was low in Nitrogen, Phosphorous and medium in Potash and acidic Soil. The previous cropping system was Blackgram-Mustard.</td></tr>
<tr><td>Details of technology demonstrated</td><td>Improved variety TG-51 and ICM</td></tr>
<tr><td>Institutional involvement</td><td>Groundnut is one among the major oilseeds crop cultivated in Kesipara village of Gumla block of Gumla district during Kharif season in an area of 30 ha. The productivity of the crop was low due to less awareness towards high yielding varieties, non-availability of quality seed and non adoption of Integrated crop management practices in Groundnut. The average yield obtained by farmers was 10.20q/ha which was lower than the potential yield, and the income of the farmers was not satisfactory.

To address these problems faced by the farmers, The KVK Gumla had implemented CFLD on Groundnut in Kesipara village. The scientist of KVK analyzed the problem of farmers through group meetings in Kesipara village prior to the implementation of CFLD programme. The KVK had selected 02 progressive farmers for implementing the CFLD. The KVK has demonstrated the improved variety TG-51 and accordingly 70 kg seed/ha was provided to the participants farmers.
The details of various activities carried out are detailed herewith
<table>
<tr><th>SN</th><th>Particular</th><th>Title</th><th>Total</th></tr>
<tr><td>1</td><td>Training</td><td>ICM in Groundnut</td><td>01</td></tr>
<tr><td>2</td><td>Method demonstration</td><td>Seed treatment & IPM</td><td>01</td></tr>
<tr><td>3</td><td>Advisories</td><td>Field visit and advisory services</td><td>03</td></tr>
<tr><td>4</td><td>Literature</td><td>Literature on Moongfali ki unnat kheti</td><td></td></tr>
</table>
</td></tr>
<tr><td>Success point</td><td>To organize on campus training on Improve Production technology of Groundnut with availability of improve seed TG-51 and field days was also conducted on farmer’s field by KVK, in 2022-23. Smt. Tijan Devi getting very interest for adoption of this technology. His field was prepared by Cultivator & rotavator and then line sowing was done with the help of cultivator. The fertilizer applied was 100 kg N: 60 kg P: 40 kg K with 4500 kg organic manure (FYM). Weed management through manual after 30 DAS .</td></tr>
</table>

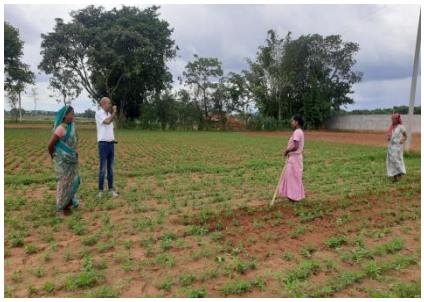
Farmer feedback	Farmer feedback about the demonstrated technology was very encouraging and shows their willingness to adopt this variety and ICM in right way.

Used Practice	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	13.50	44110.00	78975.00	34865.00	1.79
Demonstration	19.20	49010.00	109395.00	60385.00	2.23
% Increase	42.22	11.10	38.52	73.19	24.58

Yield (q/ha) - Potential yield of variety - District average (Previous year) - State average (Previous year)	: 27.00 q/ha : 13.35 q/ha : 8.80 q/ha

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

Photographs:



Field follow-up by Dr. Sanjay Kumar (Senior Scientist & Head, KVK, Gumla)

Groundnut field visit by Dr. Sukumar Mandi (Joint Director, Directorate of Rice Development, Patna)

Field day on Groundnut (TG-51)

Krishi Vigyan Kendra Gumla

Vikas Bharti Bishunpur

Name of Documenter – Mr. Atal Bihari Tiwari, SMS, Plant Protection

Title – Enhancement of income through introduction of new crop variety

Season (Rabi) : 2021-22

Name of KVK	Krishi vigyan Kendra Gumla, Vikas Bharti Bishunpur
Crop and Variety	Mustard & PM-30
Name of farmer & Address	Name:- Balbhadra Gope Vill:- Jargatoli Block:- Ghaghra Dist:- Gumla Mobile no. – 6203001311
Background information about farmer field	Keeping the objectives of Frontline Demonstration in the centre, farmer's field was selected, which was on roadside and approachable to other adjoining villages. Field condition of demonstration plot was low in Nitrogen and Phosphorous while high in potassium. Previously the cropping system of the respective farmer's field was Rice-Wheat and the farmer had to manage 8-10 no. of irrigation for wheat, which leads high production cost. Keeping the constraints of managing water, crop Mustard (variety – PM-30) was introduced in the existing system with an objective to minimize the cost and maximize the judicious utilization of available natural resources.
Details of technology demonstrated	Quality seed (PM-30), line sowing, proper irrigation (3 No) along with INM & IPM
Institutional Involvement	1. BAU, Ranchi 2. NSC, Ranchi 3. ATMA, Gumla 4. PRI members
Success Point	Average seed yield of this variety is 22.38 q/ha with 37.7% oil content & high market price. It variety bold seeds and matures in about 137 days. Use of Sulfex 80 WP through **Drone** at the time of flowering stage helped to reduce the emergence of powdery mildew disease.
Farmer Feedback	Good plant height and more no of branch

Outcome Yield (q/ha)	
- Demonstration	18.20
- Potential yield of variety/technology	22.38
- District average (Previous year)	9.68
- State average (Previous year)	8.25

Performance of 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	10.50	27500.00	53025.00	25525.00	1.93
Demonstration	18.20	32000.00	91910.00	59910.00	2.87
% Increase	73.33	16.36	73.33	134.71	

Photographs:

Pesticide spray through Drone

Mustard field visit

Field day on mustard

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

i. Tube method seeding for early cultivation of cucurbitaceous plant.
ii. Use of fresh cow-dung 1% solution with water is very effective to check the BLB in paddy.
iii. DPOG method of nursery raising (Paddy) an innovative technology demonstrated during this year.
iv. Nursery raising for SRI.
v. Demonstration of paddy seeding through drum seeded.
vi. Protective raising of vegetable nursery specially in rainy season.
vii. Water harvesting tank (Jalkund) for orchard and off season vegetable cultivation.
viii. Micro Irrigation system (sprinkler & Drip)
ix. Borabandi a low cost water conservation methodology is very effective approach,which has enhances the area under wheat and other crop in 50 ha.
x. Demonstration on mechanization viz.conoweeder, multicropplanter, wheat thresher, effective in labour, time and value addition especially of animal feed security
xi. Community nursery raising on staggered date.
xii. Promotion of resilient crop varieties.
xiii. Scape furrow method of irrigation in potato.
xiv. Raised bed shelter management in goat.
xv. Aerobic rice cultivation with tractor drawn cultivator.
xvi. Cost effective opening method of mustard in open line of cultivator (tractor drawn).
xvii. Centre opening technique in mango
xviii. Plastic mulching in vegetables crop
xix. Rejunivation in guava.
xx. Assembling of winnowing fan on water lifting pump.

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)**

S. No.	Crop/ Enterprise	ITK Practiced	Purpose of ITK
1	Cow	Farmers feed their cow green leaves of Bamboo after parturition.	For expulsion of placenta
2	Wheat	Leaf of sindwar kept in grain house storage.	To minimize storage loss from pest or insects
3	Paddy	Stem of sindwar sticking in paddy field	To protect from pest & dieases
4	Tobacco extract	Panting or Washing animals with Tobacco extract	To Control Ecto parasites in animal
5	Bullock	Boiled water of Mahuwa is used harassment relief.	To relief from harassment especially in kharif season.
6	Ghato plant leaf	Ghato plant lesf is boiled with water & after cooling used in brinjal.	To protect against stem & fruit borer

S. No.	Crop/ Enterprise	ITK Practiced	Purpose of ITK
7	Paddy	Farmer using Sali@1kg/decimel for smooth and safe uprooting of paddy seedling	For easy uprooting
8	Paddy	Farmer using small stool for uprooting of seedling to avoid drudgery in knee and wrist	Drudgery reduction
9	Paddy	Farmer using dry paddy strw with compost in pond for better fish production	For good recovery of fish
10	Fish	When pH of pond increases the fish farmer put the bundles of leaves of tamrind in the pond and when level of pH become normal then they takes out leaves bundles from pond.	For reducing the pH of water.
11	Paddy	Young bamboo is crushed and extracted juice to put into water inlet in the paddy field. That juice is spread into the field and is absorbed by the paddy plants which help to control the disease like blast.	Control Blast Disease
12	Termite control	Extract of custard apple leaf is used in controlling termite.	Termite control
13	Wheat	Safe grain of wheat by using the dust of bricks and putting 2-3 onion in a bag.	Pest Control
14	Pig	Oil extracted from Raptile mixed with karanj oil and camphor. After mixing boil it and filter, Ready material is used to control skin disease in pig	Skin disease treatment
15	Cattle	Laping of Aloevera pulp on the tounge of animal to protect FMD	Prevention from FMD
16	Cattle	Outer layer of onion i'e epidermal cell used to feed cattle against ticks.	Ticks Control
17	Rice	Bamboo (New bud) is cut in small pieces, mixed in water or direct in field for control of GLH manager	Green Leaf Hopper management
18	Mustard	Seed of mustard first broadcasted then use tractor drawn cultivator making line sowing. After ploughing small ridge and forrow developed. 20-25 days after sowing farmers uprooted the tenders mustard crop open lines and sell it as leafy vegetables.	Purpose of ITK is making irrigation in furrow and line sowing.
19	Beekeeping	Cow urine spray near bee box for managing the wasps and hornets insects.	Dataya insect management
20	Pig	Application of lime in curing of wound in pig	wound curing
21	Vegetable cultivation	Planting of cauliflower in close spacing to reduce the size of curd and make it marketable	To make marketable
22	Cauliflower	Covering of seedling with leaf cup (Dona)	To protect from cold wave

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)
1	Rice	25 ha (Banalat)	435.5 q	68	Y
2	Rice	30 ha (Helta, Rehetoli, Karamtoli, Range)	246.75	30	Y

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

Sl. No.	Brief details of the tool/ methodology followed	Purpose for which the tool was followed
1	Farmer scientist interaction	
2	Kisan gosthi	
3	PRA & Benchmark survey	
4	Demonstration	
5	Class room lecture	
6	AV aids	

Identification of courses for farmers/farm women

- ❖ PRA & Benchmark survey are done to identify the need & problems of Farmers.
- ❖ Farmers training are need based, location specific and problem solving.

-Rural Youth

- ❖ Rural youth of the area are enthusiastic and they are inspired by us to adopt new technologies and farming procedures.
- ❖ Need based long duration Training programme are formulated so that they can establish their own enterprise

-Inservice personnel

- ❖ With the prior meeting with the extension functionaries. We identify their knowledge regarding latest technology, needs and space specific problems in farmer's field. That gap of knowledge imparted by different training programme.
- ❖ Demonstration of new technology/class room lecture should be made through AV aids interaction with progressive farmer.

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

List attached in ANNEXURE

Sl. No	Name of the Equipment	Qty.

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			
-	92	92	43	05	

3.11.c Detail of Soil, Water and Plant analysis at KVK

Sl.	Analysis	No. of Samples analyzed	No. of Villages	No. of Farmers	Amount realized (Rs.)
1.	Soil	92	05	43	
2.	Water				
3.	Plant				
4.	Fertilizers				
5.	Manures				
6.	Food				
7.	Others (if any)				

3.11.d. Details on World Soil Day (05/12/22)

Sl. No.	Activity	No. of Participants	No. of VIPs	Name (s) of VIP(s)	Number of Soil Health Cards distributed	No. of farmers benefitted
1	1.Training cum awareness programme about soil sampling and importance of soil health cards	103	-	-	50	50

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

No of training programme	No of demonstrations	No. of plant material produced	Visit by the farmers	Visit by the officials
05	03 (Micro irrigation) 01 (Rain water harvesting structure)	Mango orchards, Medicinal units, water use in mango orchard	360	10

3.13 Technology week celebration: From 24-30th March 2022

	Type of activities			No. of activities	Number of participants	Related crop/ livestock technology
Date	Activity	Coordination	Village			
24/03/22	Inauguration of 3 days State level Medicinal, Aromatic and NTFP training for resource persons (24-26 march 2022)		KVK HQ	1	54	Crop, livestock technology
25/03/22	Field visit of Resource persons (7 district) under Medicinal, Aromatic and NTFP project "Focus Area :- Climate Smart Integrated Farming System Model"		KVK Farm	1	25	Crop, livestock technology
26/03/22	Workshop on "Climate Smart Farming" in new NICRA village Shivrajpur		Shivrajpur (Ghaghra)	1	156	Crop, livestock technology
27/03/22	Field day on Wheat variety DBW-187		Phori Jungatoli (Gumla)	1	481	Wheat
28/03/22	Field day and Joint visit of Micro irrigation unit with ATMA Ghaghra		Icha (Ghaghra)	1	135	Micro irrigation
29/03/22	Enterprenures Meet under ICAR-ARYA		KVK HQ	1	135	Enterprenurial activity
30/03/22	Farm visit by school children o see the agricultural technology displaed at KVK instructional farm		KVK Farm	1	137	Agricultural technology

3.14. RAWE/ / FETprogramme programme - is KVK involved? : YES

No. of student trained	No of days stayed
25 Students of ICAR-READY Programme of Fishries Students	15 Days (23/02/2022-17/03/2022)
16 Students of 7th Semester Students of Sai Nath University	30 Days (30/8/2022- 28/9/2022)

ARS trainees trained	No of days stayed
--	--

3.15. List of VIP visitors including the officials of ZPD and DEE

Date	Name of the person	Purpose of visit
26/02/22	Dr. Ranjay Kumar Singh, Senior Scientist & Head, KVK Chatra	As a Resource person in RAWE Programme
26/02/22	Dr. Dharma Oraon, SMS, Plant Protection	As a Resource person in RAWE Programme
24/03/22	Dr. Anil Kumar Singh, BAU Ranchi	As a Resource person in State level medicinal training programme (24-26/03/22)
25/03/22	Dr. Jai Kumar, BAU Ranchi	As a Resource person in State level medicinal training programme (24-26/03/22)
26/03/22	Dr. A. K. Singh, Former VC BAU Sabour	Climate change farming workshop at Shivrajpur, Ghaghra
29/03/22	Dr. A. K. Singh, Former VC BAU Sabour	ARYA Enterprenures Meet
29/03/22	Dr. Nirmal Kumar Singh, IINR&G	ARYA Enterprenures Meet
30/03/22	Dr. Santosh Kumar Singh, Principal, Netarhat Residential School	Closing ceremony of technology week
05/04/22	Shri Sushant Gourav (IAS), DC Gumla	Progressive farmer-Scientist Interface Programme
04/08/22	Shri Hemant Sati (IAS), DDC Gumla	To Visit KVK farm
09/09/22	Dr. A. K. Singh, Director, ICAR-ATARI, Zone-IV, Patna	SAC Meeting
09/09/22	Dr. R. P Singh 'Ratan' Former DEE, BAU Ranchi	SAC Meeting
09/09/22	Regional Director, NCDC Ranchi	SAC Meeting
09/09/22	Dr. Vikas Das, Proncipal Scientist, ICAR-RCER, Plandu Ranchi	SAC Meeting
25-26/11/22	Dr. V. K. Singh Director CRIDA, Hyderabad	Zonal Level NICRA KVKs Review Workshop
25-26/11/22	Dr. A. K. Singh, Director, ICAR-ATARI, Zone-IV, Patna	Zonal Level NICRA KVKs Review Workshop
25-26/11/22	Dr. J V N S Prasad, National Coordinator, NICRA	Zonal Level NICRA KVKs Review Workshop
25-26/11/22	Dr. M. S. Kundu, DEE, Dr. RPCAU, Pusa	Zonal Level NICRA KVKs Review Workshop
25-26/11/22	Dr. Amrendra Kumar, Principal Scientist, ICAR-ATARI, Zone-IV, Patna	Zonal Level NICRA KVKs Review Workshop

4.0 IMPACT

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

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Scientific lac cultivation	80	72.50	22000/ha	65000/ha
Bee keeping	20	50	2160/hive	5040/hive
Use of bio inputs	110	34.55	8000/ha	20000/ha
Vermicompost production	51	72% (37)	2500-3000/annum	7000-14000/annum
Mushroom production	46	21.7% (10)	2000-3000/annum	6000-7000/annum
Cutting & tailoring	40	87.5% (35)	1000-1500/annum	6000-7000/annum)

4.2 Cases of large scale adoption

SN	Horizontal spread of technologies	
	Technology	Horizontal spread
1	Participatory Seed production programme	80 ha
2	Bora Bandh (Water conservation)	1125 no.
3	Improved varieties	
	Paddy – Var. Lalat, Anjali, Sahbhagi, Pusa 1612	5360 ha
	Maize (Hybrid)	4300 ha
	Ragi – Var. GPU 28	660 ha
	Niger - Var. Birsa Niger 1, 2 & 3	920 ha
	Groundnut – Var. TG-22, BG-3, K-6, TG-51	ha
	Wheat – Var. K-9107, HD-2733, HD-2967, DBW-187	1250 ha
	Field pea - Var. GS-10	820 ha
	Bottle gourd (Hybrid)	250 ha
4	Mushroom Production	280 farmer
5	Vermicomposting	150 farmer
6	T & D breed of Pig (Jharsuk)	180 farmers
7	Beetle breed of Goat (Beetel)	100 farmers
8	Boron application on cauliflower	150 ha
9	Pest management in lac	220 farmers
10	Dolomite application	380 ha
11	Vaccination	7500 animal
12	Protected nursery	35 farmer
13	Paddy community nursery on staggered date	450 ha
14	Farm mechanization especially of Paddy thresher, Wheat thresher and Rotavetor	Paddy thresher-85, Wheat thresher-35, Rotavator-180
15	Canopy management in orchard	20 ha
16	Drip irrigation	80 ha
17	Orchard development (Wari)	200 ha
18	Application of bio-pesticides	200 ha

4.3 Details of impact analysis of KVK activities carried out during the reporting period (2022)

Name of specific technology/skill transferred	No. of participants	% of adoption	Change in income (Rs.)	
			Before (Rs./Unit)	After (Rs./Unit)
Lac cultivation	55	69% (38)	4800/tree	12000/tree
Bee keeping	18	66.66% (12)	1260/hive	6600/hive
IPM	70	60% (42)	16000/ha	30000/ha
Installation and maintainance of Micro irrigation system	30	33.33%	-	4000-8000/month
Vermicompost production	85	57.64% (47)	3500-4200/annum	12000-25000/annum
Cutting & Tailoring	30	66.6% (20)	2000-2500/month	7000-8000/month

4.4 Details of innovations recorded by the KVK

Innovative Vegetable farmer's Gumla

Specific Technology : Commercial vegetable cultivation during summer.

Crop and Variety : Pumpkin (Var: Vishal) and Bottle guard (Var:Anokhi)

Name of Farmer and Address : Shri Vijay Oraon
S/o Shri Mahendra Bhagat
Village :Bhawargani
Block : Bishunpur
Distt : Gumla
Mobile No :

Background and Information about Farmer Field : 34 Year old farmer Vijay Oraon is a Graduate of village Bhawargaani under Bishunpur Block has become an inspiration for youth shying away from agriculture. Vijay, who is into vegetable cultivation from last 03 years has made farming lucrative affair and is reaping a profit of Rs. 1.50 per annum from 3 acre of land. Before he ventured into farming his family was solely concentrating on paddy and maize cultivation. Vijay took up vegetable cultivation as it paves good return.

The Field situation of Vijay Oraon was low in Nitrogen, Phosphorous and medium in potash. Soil depth was very low. No any assured irrigation facilities was exist there, however he has managed the irrigation facilities from flowing river through lift.

Details of Technology :- Vijay took up vegetable cultivation especially inRabi and Summer season. While in Kharif season, he used to grow maize + Okra and also consider to choose low water requiring crop during Rabi and summer. He preferred potato var. Kufri Ashoka during Rabi season while Pumpkin (Var:Vishal) and Bottle guard (Var: Anokhi)during summer season. He focused to maintain the plant population as per the land area for whom he always keep pot raised seedling for gap filling. He used to balanced fertilizer management viz. FYM+NPK. Need based plant protection measures has also been used and also follow the weather forecast for crop management and better return.

The yield (Avg. 03 years) and economic details are given below:-

S. No	Crop	Variety	Yield (q/ha)	Cost of Cultivation	Gross Income	Net Income	B:C ratio
1	Potato	Kufri Ashoka	19.2	85000	192000	107000	2.25
2	Bottle guard	Anokhi	16.8	105000	252000	147000	2.40
3	Pumpkin	Vishal	18.0	90000	144000	54000	1.60
Total			**54.00**	**280000**	**588000**	**308000**	

Innovativeness: - Mr. Vijay Oraon is a hard working farmer and he is able to grasp the technology faster and adopt it. He is actually involved in all day to day working of the farm and marketing. After seeing the potential of new variety, Mr. Oraon has taken up seed production. The seeds is generated were supplied to the neighboring farmers.

Use of organic Formulations: - In Case of Bottle guard and pumpkin he is now using Panchagavya during flowering stage.

Success Point :- This farm success has been possible only because of availability of proper irrigation facility from Koel river through Lift irrigation. Mr. Vijay said he faces some times problem in selling his yield.

Field View of Mr. Vijay during Summer

Innovative Farmer

1. **Name of the Farmer**:**Bandha Brijiya (Primitive Tribes)**
2. **Marital Status &Gender** : Male
3. **Date and place ofbirth**: Year 1960, Langratandof Bishunpur Block , Gumla (Jharkhand)
4. **Postaladdress**:-Village : Langratand
   Panchayat : Narma
   Block : Bishunpur
   Dist : Gumla (Jharkhand)
5. **EducationalQualification:**-Middle
6. **Resources owned or leased in byFarmer**
   i. Land (ha):- 1.2
   ii. Irrigated area(ha.):- 0.4
   iii. Water bodies with irrigationcapacity:- Water bodies "Well" is available with farmer's in his field area from which he is succeeded to provide irrigation(1.0 acre) during Rabi and summer season and achieved 300 percent cropping intensity in 1.0 acre of Bari land
   iv. Animal resources :- As the farmer 'Bandha Brijiya' belong to **vulnerable tribal group (earlier name as Primitive Tribe group**) is having cattle (07No.) including of 02 No. of ox and 05 No. of Desi breed cow, Goat (24No.) and Backyard Poultry (15 No.), which is a additional source of income (25000-30000/annum)
   v. Farm machinery: Bandha Brijiya is marginal farmer and have a small farm equipment like Bullock drawn Iron Plough, Conoweeder, Electric pump set, Spray machine

7. Information about agriculture and allied activities (area / nos. along with variety /breed)

As he is having a 1.2ha (3acre) of land and got a training from KVK on regular basis, because village is situated 12km away from KVK. So he is in regular touch of KVK since 2016-17 for improved technological input. He is cultivated the crop in following manners and getting double income (2020-21)

i. Fieldcrops

Crop	Variety	Area (acre)
Kharif		
Rice	Lalat	1.0
	Jeeraphool	0.50
Blackgram	PU 30	0.75
Maize	Suwan 1	0.25
Finger Millet	GPU 28	0.50
Rabi		
Rice-Wheat	HD 2967	0.50
Linseed	Priyam	1.0
Blackgram-Potato	Lalgulab	0.25
Mustard	PM 30	0.85

Maize-Brinjal	Pusa Purple Lung	0.15
Finger Millet-Pea	Golden 10	0.25

ii. Horticulturalcrops

Crop	Variety	Area (acre)
Maize-Brinjal	Pusa Purple Lung	0.15
Finger Millet-Pea	Golden 10	0.25
Blackgram-Potato	Lalgulab	0.25
Mango	Langra	10 Plant

iii. Agro-forestry : He havesTamarind, Myrobalan, Terminalia bellirica, Madhuca Longifolia and Teak plant

iv. Livestock

Particulars	Breed	Number
Dairy	Desi Cow	05
Poultry	Back yard Poultry	15
Goat	Goat (Blackbengal)	24

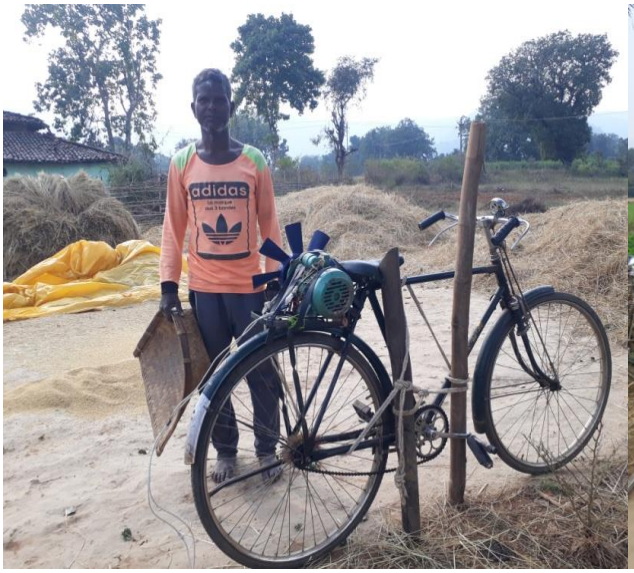
v. Any other: -He use to collectChakor **(***Salvia Lanata*)and incorporated it into field for soil health management.

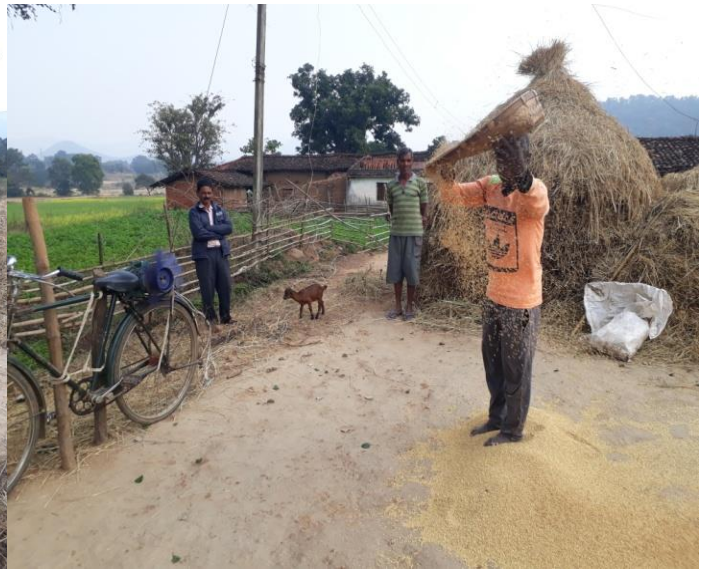
8. Innovative technologies *: Assembling of winnowing fan on water lifting pump*

iii) Developed:

Brief of his Innovation: -

For winnowing of rice quickly he tried to develop by set a radiator fan of unused tractor and assemble it , for which the removed the water lifting device from the water pump motor and install radiator fan for winnowing purpose. By this way he has succeeded in using a water lifting pump for multipurpose. His innovation is assessed by the KVK scientist on his field with operation and found that it was very effective in saving the time as well as labour cost. His innovation succeeded with in winnowing rice 1q in 15-20 minutes reducing cost of Rs.1000/6hr. (Labour charges)

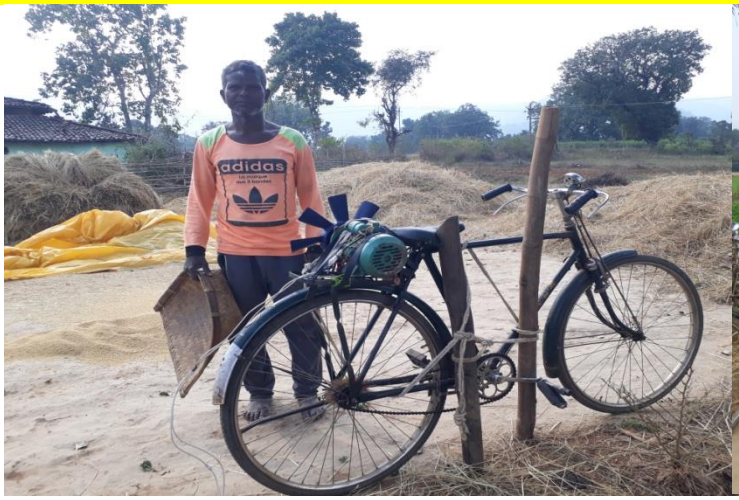
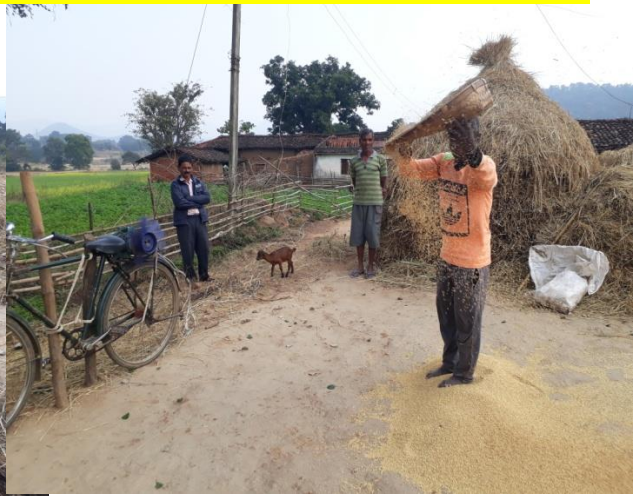


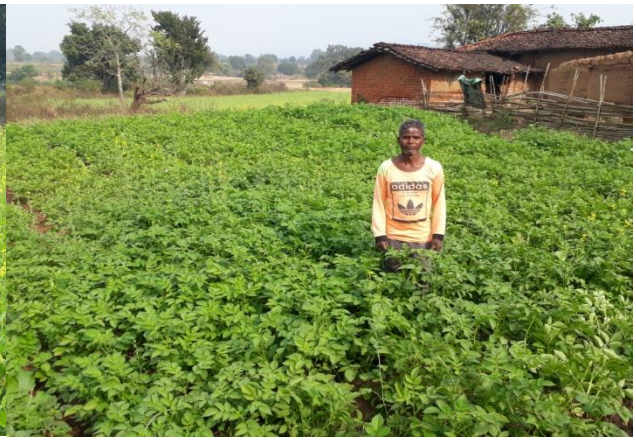


9. Activity-wise income, cost-benefit ratio, gross and netincome

Components	Names	Area (Acre)	Production (Q.)	Expenditure (Rs)	Gross Income (Rs.)	Net Income (Rs.)	B:C Ratio
Field Crops							
Field Crop 1	Paddy (Improved Var. Lalat)	1.00	13.80	15000.00	25778.40	10778.40	1.72
Field Crop 2	Paddy (Var. Jeera phool)	0.50	4.10	4500.00	7658.80	3158.80	1.70
Field Crop 3	Black Gram (Var. PU 30)	0.75	3.04	8850.00	18234.00	9384.00	2.06
Field Crop 4	Maize (Var. Suwan 1)	0.25	3.42	3650.00	6327.00	2677.00	1.73
Field Crop 5	Finger Millets (Var. A 404)	0.50	3.50	5130.00	11532.50	6402.50	2.25
Field Crop 6	Paddy - Wheat (Var. HD 2967)	0.50	6.36	6900.00	12561.00	5661.00	1.82
Field Crop 7	Linseed (Var. Priyam)	1.00	5.00	10000.00	22500.00	12500.00	2.25
Field Crop 8	Mustard (Var. PM30)	0.85	5.42	10370.00	25216.95	14846.95	2.43
Horticulture Crops							
Horti.Crop 1	B/G - Potao (Var. Lal Gulab)	0.25	16.50	9500	19800.00	10300.00	2.08
Horti.Crop 2	Maize - Brinjal (Var.PusaPurpal Long)	0.15	9.90	3900	9900.00	6000.00	2.54
Horti. Crop 3	Finger Millets - Pea (Var. Golden - 10)	0.25	8.75	7250	21875.00	14625.00	3.02
Horti Crop 4	Mango	10 Plant	5.00	3000	11000.00	8000.00	3.67
Livestock&Any other							
Livestock 1	Goat	24 No	3.60	45600	144000.00	98400.00	3.16
Livestock 2	Backyard Poultry	15-20No.	0.12	600	3600.00	3300	6.0
Income Through Forest Produce Collection		15 Plant	9.00	5500	16200.00	10700.00	2.95

Innovation, news and activities photographs



4.5 Details of entrepreneurship development (Star farmers of Seed production programme)

Entrepreneurship development			
Name of the enterprise	Seed Production		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Mahabir Bhagat	Sato	Bishunpur
	Dhuri Bhagat	Sato	Bishunpur
	Santost Oraon	Sato	Bishunpur
	Bindeshwar Munda	Sato	Bishunpur
	Laldeo Oraon	Sato	Bishunpur
	Deolal Munda	Sato	Bishunpur
	Lal Sai Tana Bhagat	Sato	Bishunpur
	Mahipal Tana Bhagat	Sato	Bishunpur
	Hirmal Munda	Sato	Bishunpur
	Sudhir Bhagat	Sato	Bishunpur
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2020		
Technical Components of the Enterprise	Certified seed		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Average	Very Good	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

Entrepreneurship development			
Name of the enterprise	Seed Production		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Etwari Oraon	Belagarha	Ghaghra
	Basi devi	Belagarha	Ghaghra
	Sukhram Oraon	Belagarha	Ghaghra
	Bandhan Oraon	Belagarha	Ghaghra
	Tuna Oraon	Belagarha	Ghaghra
	Jitrai Bhagat	Belagarha	Ghaghra
	Jageshwar Oraon	Belagarha	Ghaghra
	Soma Oraon	Belagarha	Ghaghra
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2020		
Technical Components of the Enterprise	Certified seed		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Average	Very Good	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

Entrepreneurship development			
Name of the enterprise	Seed Production		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Manoj Kumar Manjhi	Gunia	Ghaghra
	Gayatri devi	Gunia	Ghaghra
	Baiju Oraon	Gunia	Ghaghra
	Charwa Oraon	Gunia	Ghaghra
	Chanda Oraon	Gunia	Ghaghra
	Soma Oraon	Gunia	Ghaghra
	Ramjit Manjhi	Gunia	Ghaghra
	Pandey Oraon	Gunia	Ghaghra
	Kande Oraon	Gunia	Ghaghra
Role of KVK with quantitative data support:	Technical backstopping & Market Linkage		
Timeline of the entrepreneurship development	2020		
Technical Components of the Enterprise	Certified seed		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Average	Very Good	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	Spread but very slow		

Entrepreneurship development			
Name of the enterprise	Pig Farming		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Machan Bek	ManjhaToli	Raydih
	Sarita Devi	Silam	Raidih
	sangitaMinz	Silam	Raidih
	Rajni KantaTirkey	semla Bartoli	Chainpur
	Jitnay Devi	Silam	Raidih
	Shankar Mahli	Rehekubatoli	Bishunpur
	Ravinder Oraon	Rehekubatoli	Bishunpur
	Suraj Oraon	Bishunpur	Bishunpur
	Pradip Munda	Bendi	Bishunpur
	Krishna Oraon	Bishunpur	Bishunpur
	Runa Oraon	Bishunpur	Bishunpur
	jugender Bhagat	Arangloya	Bishunpur
	PanchamJorjKuraj	KoynarToli	Bishunpur
	sanjaykujar	KoyanarToli	Bishunpur
	BhikhariOraon	ChapatToli	bishunpur
	Sunil Oraon	Chapa Toli	Bishunpur
	Chandresh Bhagat	Chapa Toli	Bishunpur
	Sanjay bara	Dipadih	Bishunpur
	Virender Bara	Dipadih	Bishunpur
	Ram Brech Bara	Chirodih	Bishunpur
	Raju Oraon	Chirodih	Bishunpur
	Sunil Toppo	NarmadarToli	Bishunpur
	Suman Oraon	KoynarToli	Bishunpur
	RamchanderOraon	Chapa Toli	Bishunpur
	Upender Bhagat	Bishunpur	Bishunpur
	Shiv Kumar Baraik	SarangoPokharToli	Ghaghra
	Shiv Nath Oraon	Gutii	Ghaghra
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2021		
Technical Components of the Enterprise	Pig Farming		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Low	High	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

Entrepreneurship development			
Name of the enterprise	Goat Farming		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Tileshwari singh	Kishi	Kamdara
	Bimla Devi	Kisni	Kamdara
	Laxmi Devi	Kisni	Kamdara
	Hiramani Devi	Kisni	Kamdara
	SanjiwanTopno	Kisni	Kamdara
	Rajesh Sahu	Samal	Gumla
	Narayan Barla	Samal	Gumla
	Manju Baa	Tangarjariya karamtoli	BasyaGumla
	Neera Devi	Kudhamar	Gumla
	Sanjay Bhagat	Manjira	Bishunpur
	Deepak Lohra	Manjira	Bishunpur
	Surender Oraon	Manjira	Bishunpur
	Ramesh Bhagat	Manjira	Bishunpur
	Sanju Bhagat	Manjira	Bishunpur
	Kalli Devi	Manjira	Bishunpur
	Viri Bhagat	Manjira	Bishunpur
	Birendra Oraon	Manjira	Bishunpur
	AshwariOraon	Manjira	Bishunpur
	Rajbihar Bhagat	Manjira	Bishunpur
	Lavtinatirki	Telgaon	Gumla
	DiweshMinj	Telgaon	Gumla
	Sanjay Oraon	Telgaon	Gumla
	Laxmi Kumari	Telgaon	Gumla
	Mina Devi	Telgaon	Gumla
	Devmait Devi	Telgaon	Gumla
	Sirso Kumari	Telgaon	Gumla
	Binod kumar	Telgaon	Gumla
	Filo Oraon	Telgaon	Gumla
	Asusti Kumari	Telgaon	Gumla
	Sewti Gyani Tandi	Telgaon	Gumla
	Vivek Kumar Gope	Telgaon	Gumla
	Alka Kumari	Telgaon	Gumla
	Devanti Devi	Telgaon	Gumla

Entrepreneurship development			
Name of the enterprise	Goat Farming		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Sunita devi	Telgaon	Gumla
	SomraMinj	Telgaon	Gumla
	Sulochana Kumari	Telgaon	Gumla
	Jushpin Tikka	Telgaon	Gumla
	Deepak Ekka	Telgaon	Gumla
	Sita Munda	Telgaon	Gumla
	ManjniTigga	Telgaon	Gumla
	Sundari Kumari	Telgaon	Gumla
	Urimla Devi	Telgaon	Gumla
	Manjeet Oraon	Telgaon	Gumla
	Jyoti Beck	Telgaon	Gumla
	PunamTirkey	Telgaon	Gumla
	Chandra Oraon	Telgaon	Gumla
	Sulekhakerketta	Telgaon	Gumla
	Mala Kumari	Telgaon	Gumla
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2021		
Technical Components of the Enterprise	Goat Farming		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Low	High	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

Entrepreneurship development			
Name of the enterprise	Lac Farming		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Satish Oraon	Lalmati	Sisai
	BandiOraon	Lalmati	Sisai
	JagarnathChikBadaik	Lalmati	Sisai
	SalikramOraon	Lalmati	Sisai
	BandhuOraon	Lalmati	Sisai
	Anita Devi	Lalmati	Sisai
	JagarnathBarla	Lalmati	Sisai
	TetruOraon	Lalmati	Sisai
	Gopal Oraon	Jarhponi	Sisai
	Sanjay Oraon	Lalmati	Sisai
	Praveen Kumar Bhagat	Lalmati	Sisai
	BindeswarOraon	Lalmati	Sisai
	Nishant Kumar Oraon	Lalmati	Sisai
	Sibu Oraon	Lalmati	Sisai
	GoindaOraon	Lalmati	Sisai
	Mangna Bhagat	Lalmati	Sisai
	Jitu oraon	Lalmati	Sisai
	Palho Devi	Lalmati	Sisai
	JaimanGop	Kusuktoli	Sisai
	Laxman Oraon	Lalmati	Sisai
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2021		
Technical Components of the Enterprise	Lac Cultivation		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Low	High	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

Entrepreneurship development			
Name of the enterprise	Lac Farming		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Rabi Oraon	Kataidamar	Sisai
	Mahli Tana Bhagat	Kataidamar	Sisai
	Etwari Devi	Kataidamar	Sisai
	Vijay Oraon	Kataidamar	Sisai
	Mani Devi	Kataidamar	Sisai
	Karmila Devi	Kataidamar	Sisai
	Sanjay Bhagat	Kataidamar	Sisai
	Ramesh Oraon	Kataidamar	Sisai
	Birsu Tana Bhagat	Kataidamar	Sisai
	Dasmi Bhagat	Kataidamar	Sisai
	AndashOraon	Kataidamar	Sisai
	Karam Chandra Tana Bhagat	Kataidamar	Sisai
	Ekandra Tana Bhagat	Kataidamar	Sisai
	Bohri Devi	Kataidamar	Sisai
	Sukro Devi	Kataidamar	Sisai
	Charitri Devi	Kataidamar	Sisai
	Somro Devi	Kataidamar	Sisai
	Parwati Devi	Kataidamar	Sisai
	Sandeep Oraon	Kataidamar	Sisai
	Rameshwar Oraon	Kataidamar	Sisai
	MandashOraon	Kataidamar	Sisai
	Ramesh Oraon	Kataidamar	Sisai
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2021		
Technical Components of the Enterprise	Bee Keeping		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Low	High	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

Entrepreneurship development			
Name of the enterprise	Lac Farming		
Name & complete address of the entrepreneur	**Name**	**Village**	**Block**
	Manu Munda	Lalmati	Sisai
	Shibu Oraon	Lalmati	Sisai
	Tejmanmunda	Lalmati	Sisai
	Jagar Nath Oraon	Lalmati	Sisai
	Etwari Devi	Lalmati	Sisai
	TetruOraon	Lalmati	Sisai
	KabindarOraon	Lalmati	Sisai
	Suresh Oraon	Lalmati	Sisai
	Janak Bhagat	Lalmati	Sisai
	Somra Munda	Lalmati	Sisai
	BudheswerOraon	Lalmati	Sisai
	RankaOraon	Lalmati	Sisai
	Atwa Munda	Lalmati	Sisai
	Sohadri Devi	Lalmati	Sisai
	Karma Munda	Lalmati	Sisai
	SanicharwaOraon	Lalmati	Sisai
	Balak Ram Oraon	Lalmati	Sisai
	Pursottam Bhagat	Lalmati	Sisai
	Prem Chandra Oraon	Lalmati	Sisai
	BandiOraon	Lalmati	Sisai
	Kabir Banda	Lalmati	Sisai
	SanikaOraon	Lalmati	Sisai
	KujaOraon	Lalmati	Sisai
	Karma Oraon	Lalmati	Sisai
	Bishamber Tete	Lalmati	Sisai
	Praween Bhagat	Lalmati	Sisai
	Jitendra Munda	Lalmati	Sisai
	MarvariOraon	Lalmati	Sisai
	MahabirOraon	Lalmati	Sisai
	Munni Devi	Lalmati	Sisai
	Sukarmani Devi	Lalmati	Sisai
Role of KVK with quantitative data support:	Technical backstopping		
Timeline of the entrepreneurship development	2021		
Technical Components of the Enterprise	Bee Keeping		
Status of entrepreneur before and after the enterprise	**Before**	**After**	
	Low	High	
Present working condition of enterprise in terms of raw materials availability, labour availability, consumer preference, marketing the product etc. (Economic viability of the enterprise):	Production part is good but marketing part is tedious		
Horizontal spread of enterprise	--		

4.6 Any other initiative taken by the KVK

i. Participatory Seed Production through seed village
ii. Breed chain development of pig
iii. Breed chain development of Goat
iv. Vermi village development with the support of NFSM/RKVY
v. Bora Bandi "A low cost water conservation method" at Village-Gunia (Ghaghra)
vi. Awareness for wheat threshing by thresher machine for feed safety
vii. Coping strategies towards climate change.
viii. Popularization of zero tillage machine
ix. Lac seed production
x. Swachch Bharat Abhiyan
xi. Technological backstopping in adoptive village of MP.
xii. Adoption of village by PC and SMS.
xiii. Agricultural knowledge at rural school
xiv. IARI Post office linkage programme.
xv. Soil health card
xvi. Crop insurance
xvii. Rain water harvesting (Dobha model)
xviii. Traditional bee keeping
xix. Safe storage
xx. Renovation of well
xxi. Women empowerment through value addition
xxii. Involvement of SHG in seed production programme
xxiii. Mushroom spawn production
xxiv. Skill training under ASCI
xxv. Haushing management in Goat & Pig
xxvi. Establishment of lac processing unit
xxvii. Ducry unit
xxviii. Micro irrigation system
xxix. Custruction of NADEP unit
xxx. Pramotion of seed drill machine
xxxi. Mango Orchard development
xxxii. Pramotion of meditional and aerometic plants
xxxiii. Promotion of organic rice cultivation
xxxiv. Empowerment of women through mushroom cultivation
xxxv. Biotech Kiasn
xxxvi. Establishment of Nutritional garden
xxxvii. Establishment of bottom mushroom production unit
xxxviii. Establishment of mushroom spawn production unit
xxxix. Van-aushadhi vatika in 18 village with 200 farm women
xl. Establishment of Dargon fruit cultivation unit at farm.
xli. Establishment of solar based water lifting unit at farm.
xlii. Establishment of transformer and electric supply at KVK farm.
xliii. FPO formation.
xliv. New NICRA village survey and work implementation (NICRA – Phase-III)
xlv. Natural farming

5.0 LINKAGES

5.1 Functional linkage with different organizations

SN	Name of the agency	Nature of the Linkage
1.	District agriculture department	Planning and monitoring
2.	SAMETI, Ranchi	Training and Demonstration
3.	District Horticulture deportment	Training and Demonstration
4.	District Animal husbandry deportment	Training and Demonstration
5.	District Fishery deportment	Training and Demonstration
6.	District Soil conservation Deportment	Training and Demonstration
7.	District Forest deportment	Planting material distribution
8.	Integrated Trible Development Agency, Gumla	Project implementation
9.	Banks like BOI, SBI, and PNB etc.	SHG linkage
10.	NABARD	Kisan club , SHG and linkages
11.	NGOs	Capacity building
12.	BAU, Ranchi	Training, Demonstration and Seed availability
13.	ICAR- RCER, Plandu, Ranchi	Training, Demonstration and Seed or planting material availability
14.	CRIDA, Hydarabad	Project implemented
15.	IINR&G, Namkum, Ranchi	Training and Brood lac availability
16.	All KVKs of Jharkhand	Information and seed exchange
17.	IMD, Pune	Metrological data collection
18.	IIWR Karnal	Trial on Wheat
19.	ASCI, New Delhi	Skill Training
20.	Dist. Industrial Department	Market Chain
21.	NSC Patna and Ranchi	Seed
22.	PC Unit Jabalpur	AICRP on Niger
23.	Dist. Cooperative Department	FPO formation
24.	DRMR, Bharatpur, Rajasthan	Training and Demonstration
25.	JSLPS	Training and Demonstration
26.	JTDS	SHG and linkages
27.	CURRS, Hazaribagh	DBT Project Kisan Hub
28.	Davyan Krishi Vigyan Kendra Ranchi	Seed/animals components/ bee box
29.	Regional Fodder Station, Kalayni, WB	Fodder Seed
30.	BARC, Mumbai	Groundnut Seed

5.2. List special programmes undertaken during January to December 2021 by the KVK, which have been financed by ATMA/ Central Govt/ State Govt./NHM/NFDB/Other Agencies (Information of previous year should not be provided)

a) Programmes for infrastructure development: NA

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.) NA

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

6. PERFORMANCE OF INFRASTRUCTURE IN KVK

6.1 Performance of demonstration units (other than instructional farm)

Sl	Name of demo Unit	Year of estt.	Area (Sq.mt)	Details of production				Amount (Rs.)				Remark
				Variety/breed	Produce	Qty.		Cost of inputs		Gross income		
1	Rain water harvesting pond	2007-08	40 m x 30 m	Rohu, Katla, Mrigal	Composit fish	0.16		-		1920.00		Use in village level (Salam)
2	Vermi-compost	2010-11	189 sq. ft	Easenia foetida	Compost	Jan- Mar 22	43 q	Jan- Mar 22	28020.00	Jan- Mar 22	53000.00	138 q Sell 13 q farm use 10 q stock in hand
						Apr-Dec 22	118 q	Apr-Dec 22	56800.00	Apr-Dec 22	85000.00	
						Total	**161 q**	**Total**	**84820.00**	**Total**	**138000.00**	
3	Nursery Unit	2018-19	0.20 ha	Mango root stock	Root stock		4000 no.	47885.00		23500.00		Mango root stock (Stock in hand) Papaya plant – Sell & Farm use Napier- Sell & Stock
				Papaya	Plant		1400 no.					
				Vegetable	Seedling		11220 n					
				Spices	Seedling		1050 no					
				Dragon	Plant		200 no.					
				Medicinal	Slip		6000 no.					
				Napier	Slip		1000 no					
				Total			**24860.00**		**47885.00**		**23500.00**	
4	Goatry	2017-18	0.30 ha	Beetle, Black bangal	Buck & Goat	Jan- Mar 22	17 no	Jan- Mar 22	5900.00	Jan- Mar 22	7500.00	Sell – 10 no. Stock in hand 12 no. Mortality 01 no.
						Apr-Dec 22	06 no	Apr-Dec 22	26500.00	Apr-Dec 22	59500.00	
						Total	**23 no**	**Total**	**32400.00**	**Total**	**67000.00**	
5	Duckry	2018-19	1500 sq ft	Indian runner	Egg	Jan- Mar 22	61 no.	Jan- Mar 22	300.00	Jan- Mar 22	488.00	204 egg sell, 02 duck mortality 08 duck sell
						Apr-Dec 22	143 no.	Apr-Dec 22	300.00	Apr-Dec 22	1144.00	
						Total	**204 no.**	**Total**	**600.00**	**Total**	**1632.00**	
					Duck		**10 no.**				**2400.00**	
6	Pig	2018-19	3600 sq ft	Jharsook	Piglet, Pig	Jan- Mar 22	20 no	Jan- Mar 22	35612.00	Jan- Mar 22	90225.00	16 no. piglet sell Mortality-04 piglet Sell-25 piglet Stock in hand-01
						Apr-Dec 22	30 no	Apr-Dec 22	91518.00	Apr-Dec 22	147900.00	
						Jan- Mar 22	01 no	Jan- Mar 22		Jan- Mar 22	15000.00	
						Total	**316 no.**	**Total**	**127130.0**	**Total**	**253125.00**	
7	Mushroom spawn unit	2015-16	--	Oyester	Spawn	847 Pkt		11180.00		25410.00		
					Mushroom	28.10 kg				5620.00		
										Total	**31030.00**	
Total								**299519.00**		**517157.00**		

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	
Mustard	30/10/21	04/11/21	0.60	PM-30	Seed	2.60	Oct to Dec 21	10239.00	27390.00	Sell & Farm use
							Jan to May 22	2464.00		
							Total	**12703.00**		
Wheat	30/11/21	12/04/22	0.40	Sabour nirjal	Seed	5.0	Oct to Dec 21	8512.00	18080.00	Sell & Farm use
							Jan to May 22	4800.00		
							Total	**13312.00**		
Wheat	03/12/21	16/04/22	0.40	DBW-187	Seed	2.7	Oct to Dec 21	6052.00	9920.00	Sell & Farm sue
							Jan to May 22	2850.00		
							April to Dec 22	8902.00		
							Total			
Ragi	01/08/22-09/08/22	01/11/22	0.06	BM-3	Seed	1.0		5419.00	3500.00	Natural farming plot
Dhaincha	28/06/22	01/11/22-05/11/22	0.30	Dhaincha	Seed	2.08		5919.00	10400.00	
Paddy	22/07/22	04/11/22	0.20	Swarna Shreya	Seed	6.0		9879.00	12000.00	
Paddy	27/07/22-31/07/22	01/12/22-06/12/22	2.30	Sahbhagi	Seed	74.0		111717.00	14000.00	
Paddy	31/07/22	04/12/22	0.10	Rajendra Kasturi	Seed	2.0		1893.00	4000.00	
Niger	27/08/22	13/12/22	1.00	Birsa niger-3	Seed	1.96		8695.00	19600.00	
Redgram	30/06/22-01/07/22	10/05/22	1.00	Rajiv lochan	Seed	2.5	July to Dec 21	26377.00	25300.00	
							Jan to May 22	2000.00		
							Total	37279.00		
Wheat	14/11/22		0.20	Sabour nirjal	Seed	-	-	2619.00	0	Crop standing
Wheat	12/11/22		0.15	DBW-187	Seed	-	-	3939.00	0	Crop standing
Mustard	15/11/22		0.18	PM-30	Seed	-	-	3639.00	0	Crop standing
Gram	25/11/22		0.14	JG-12	Seed	-	-	679.00	0	Crop standing

Vegetables										
Potato	26/10/21	25/01/22	Lalima	Lal Gulab K. Sinduri ----------	Non Seed	3.51	Oct to Dec 21	5200.00	4192.00	Damage due to cold
							Jan to Dec 22	1400.00		
							Total	6600.00		
Cabbage	10/11/21	05/02/22- 28/02/22	0.03	BlueJ	Non Seed	6.69	Nov to Dec 21	1711.00	6846.00	
							Jan to Dec 22	450.00		
							Total	2161.00		
Bottle gourd	14/02/22	24/04/22- 06/05/22	0.04	Anokhi	Non Seed	1.01	Nov to Dec 21	2400.00	1010.00	Damage due to wilting
							Jan to Dec 22	640.00		
							Total	3040.00		
Okra	29/04/22	20/06/22- 22/07/22	0.05	Annu-50	Non Seed	4.29		1600.00	2996.00	
Tomato	12/11/22		0.02	Swarna Sampada	Non Seed		Nov to Dec 21	1841.00	3007.00	
							Jan to Dec 22	200.00		
							Total	2041.00		
Brinjal	15/07/22	12/10/22- 30/11/22	0.01	VNR-218	Non Seed	1.09		800.00	1554.00	
Pea	23/10/22	-	0.03	Golden	Non Seed	-		600.00	-	Crop standing
Tomato	10/11/22	-	0.06	Swarna Sampada	Non Seed	-		1196.00	-	Crop standing
Brinjal	11/11/22	-	0.04	Swarna Pratibha	Non Seed	-		1796.00	-	Crop standing
Cauliflower +Cabbage	12/11/22	-	0.03	Aghani + Blue jay	Non Seed	-		996.00	-	Crop standing
Fruits										
Lemon	08/08/15		0.04	Kagji	Fruit	0.32		946.00	675.00	Plant growth
Orange	28/10/15/ 09/10/18	-	0.09	Nagpur Santra	Fruit	0.27		3206.00	1100.00	Growth stage
HD Guava	21/07/09/ 24/08/17	-	0.50	L-49 KG Guava Allahabad safeda	Fruit	0.87		3200.00	1955.00	Plant pruning work

Mango	21/06/13	16/06/22	2.0	Langra	Fruit	With tree		10744.00	40000.00	Sell
Mango	22/08/17	16/06/22	0.60	Amrapali Langra	Fruit	With tree		3287.00	8000.00	Sell
Mango	20/07/08	16/06/22	2.0	Amrapali/ Himsagar	Fruit	With tree		5102.00	13520.00	Sell
Anola	21/07/09		0.06	NA-7	Fruit	0.18	-	-	360.00	Sell

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

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
1	Vermicompost	161.0 Q	84820.00	138000.00	Sell, Farm sue and stock in hand
	Bio fertilizer				
2	Jeevamruth	8100 lit	34892.00	92850.00	Sell & farm sue
3	Ghanjeevamruth	3 q			Farm use
4	Beejamruth	60 lit			Farm use
	Total	**8160 lit & 164 q**	**119712.00**	**230850.00**	

6.4 Performance of instructional farm (livestock and fisheries production)

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income (value)	
1.	Cow	-	-	-	-		
2.	Goat	Black bangal	Kid	10 no.	32400.00	59500.00	Sell
3	Duck	Indian runner	Egg	204 no	600.00	4032.00	Sell
			Duck	08 no.	-	-	-
4	Fish	Composite	Fish	0.16 q	-	1920.00	Used in village salam
6	Pig	Jharsook	Piglet	34 no.	127130.00	253125.00	Stock -01 no. Sell-25 no. Mortality-08 no.
			Pig	01 no.			
	Total				**160130.00**	**318577.00**	

6.5 **Utilization of hostel facilities**

Accommodation available (No. of beds) : 40

Months	No. of trainees stayed	Trainee days (days stayed)	Reason for short fall (if any)
January 22	20	100	
January 22	40	280	
January 22	30	30	
January 22	40	120	
January 22	30	30	
February 22	40	120	
February 22	21	17	
February 22	10	150	
March 22	01	06	
March 22	01	03	
March 22	11	99	
March 22	25	100	
March 22	25	175	
March 22	17	85	
March 22	29	203	
March 22	23	92	
March 22	20	100	
March 22	18	270	
April 22	12	84	
May 22	12	84	
May 22	17	102	
May 22	18	90	
May 22	15	75	
May 22	18	90	
May 22	16	240	
May 22	08	40	
July 22	01	30	
July 22	01	30	
July 22	01	30	
August 22	18	126	
August 22	17	85	
August 22	17	70	
September 22	20	140	
September 22	09	270	
September 22	15	75	
October 22	30	150	
October 22	20	140	
November 22	20	140	
November 22	03	90	
December 22	50	100	
December 22	06	54	
Total :	**745**	**4315**	

6.6 Utilization of staff quarters

Whether staff quarters has been completed : Completed

No. of staff quarters : 06

Date of completion : 9th March 2008

Occupancy details:

Months	Q I	QII	Q III	QIV	Q V	QVI
January 21	√	√	√	√	√	√
February 21	√	√	√	√	√	√
March 21	√	√	√	√	√	√
April 21	√	√	√	√	√	√
May 21	√	√	√	√	√	√
June 21	√	√	√	√	√	√
July 21	√	√	√	√	√	√
August 21	√	√	√	√	√	√
September 21	√	√	√	√	√	√
October 21	√	√	√	√	√	√
November 21	√	√	√	√	√	√
December 21	√	√	√	√	√	√

7.FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	--	--	--
With KVK	Bank of India	Bishunpur	492210100009600
Revolving fund (KVK)	Bank of India	Bishunpur	492210100009591
Hostel & Staff Quarter (KVK)	Bank of India	Bishunpur	492210100011614

7.2. Utilization of funds under CFLD (2022-23) on Oilseed *(Rs. In Lakhs)*

Item	Area (in ha)	Sanctioned amount (Rs.)	Released by ICAR		Expenditure		Unspent balance as on 31st Dec 2022
			Kharif	Rabi	Kharif	Rabi	
Groundnut	10	120000.00	43200.00		59135.00		(-)15935.00
Niger	20	100000.00	36000.00		100000.00		(-) 64000.00
Sesame	20	100000.00	36000.00		100000.00		(-) 64000.00
Linseed	10	50000.00		18000.00		50000.00	(-) 32000.00
Mustard	40	240000.00		86400.00		240000.00	(-) 153600.00

7.3. **Utilization of funds under CFLD on Pulses (2022-23)*(Rs. In Lakhs) :***

Item	Area (in ha)	Released by ICAR		Expenditure		Unspent balance as on 31st Dec 2021
		Kharif	Rabi	Kharif	Rabi	
Blackgram	20	39600.00		180000.00		(-) 140400.00
Redgram	20	39600.00		180000.00		(-) 140400.00
Lentil	20		39600.00		180000.00	(-) 140400.00

7.4 Utilization of KVK funds during the year 2022 (Not audited) (January to December 2022)

Sl. No.	Particulars	Sanctioned	Released	Expenditure
A. Recurring Contingencies				
1	Pay & Allowances	1,94,29,453.00	1,94,29,453.00	1,94,29,453.00
2	Traveling allowances	1,12,361.00	1,12,361.00	1,12,361.00
3	HRD	26,151.00	26,151.00	26,151.00
4	Contingencies			
A	POL, Stationary, Postage, Repair of vehicle, Telephone etc.	2,46,502.00	2,46,502.00	2,46,502.00
B	TSP (General)	9,81,158.00	9,81,158.00	9,81,158.00
C	Training of farmers (RY & PF)	4,24,202.00	4,24,202.00	4,24,202.00
D	Extension activity, Exhibition, Kisan Mela	58,029.00	58,029.00	58,029.00
TOTAL (A)		**2,12,77,856.00**	**2,12,77,856.00**	**2,12,77,856.00**
B. Non-Recurring Contingencies				
1	TSP (Capital)	20,54,295.00	20,54,295.00	20,54,295.00
TOTAL (B)		**20,54,295.00**	**20,54,295.00**	**20,54,295.00**
C. REVOLVING FUND				
GRAND TOTAL (A+B+C)		**2,33,32,151.00**	**2,33,32,151.00**	**2,33,32,151.00**

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

Year	Opening balance as on 1st January	Income during the year	Expenditure during the year	Net balance in hand as on 31st December of each year (Kind + cash)
2020 (Jan 20 to Dec 20)	35,73,238.37	11,24,508.00	10,13,510.00	36,84,236.37
2020 (Jan 21 to Dec 21)	36,84,236.37	15,91,855.00	11,47,968.19	41,28,123.18
2020 (Jan 22 to Dec 22)	41,28,123.18	12,23,271.00	9,82,935.00	**43,68,459.78**

7.6. (i) Number of SHGs formed by KVKs

(ii) Association of KVKs with SHGs formed by other organizations indicating the area of SHG activities.

(iii) Details of marketing channels created for the SHGs

(i)Association of KVKs with SHGs (2022-23) formed by other organizations : 55

No. of SHGs associated with KVK (2022-23)	Year of formation	Bank Linkage (Yes/No)	Activities
55	-	Yes	1. Lac cultivation, Bee keeping, Groundnut , Organic rice, Mustard and Mushroom cultivation 2. Promotion of Medicinal Aromatic and NTFP

ii) Association of KVKs with SHGs formed by other organization indicating the area of SHGs activities

53 no. of SHG/ Mahila mandals which was formed by other agencies earlier and they are associated with KVK under different activities during 2021-22 are as follows.

SL	Activities	No. of SHG	Village	Block
1	Lac cultivation	02	Kataidamar	Sisai
		03	Lalmati	Sisai
2	Bee Keeping	01	Chainpur	Chainpur
3	Mustard Cultivation	04	Belagarha	Ghaghra
		02	Beti	Ghaghra
		01	Khatanga	Ghaghra
4	Groundnut cultivation	01	Alenkera	Palkot
		01	Sambal	Sisai
5	Organic rice cultivation	04	Banalat	Bishunpur
		02	Sugakata	Raidih
6	Mushroom cultivation	01	Kashitoli	Gumla
		01	Hethadar	Ghaghra
7	Medicinal, Aromatic and NTFP	30		Bishunpur
	Total	**53**		

iii. Details of marketing channels created for the SHGs

SHG associated with KVK during 2022-23 in specific activities for which the KVK has created the market linkage with different processing units viz LAMPS Banari, Common Facility Centre, Vikas Bharti Bishunpur, Mahila mandal and Milinda group oil extracting centre established in NICRA cluster village Gunia and Jargatoli of Ghaghra block.

For smooth accessing the market channels / unit, KVK has organized a field programme and developed a whatsapp group of associated SHG members and accordingly right information has been collecter for further marketing.

Details of market available during 2022-23 for associated SHG and their commodities

SN	Commodity	Quantity (in q)	Access to processing/ sellers point	Value (Rs. In lakh)
1	Lac	60	Lac purchasing centre developed under ARYA in Nagar (Sisai)	56.00
2	Mustard	225	LAMPS, Milinda oil extracting centre & JSLPS	12.37
3	Honey	200	Dabour, CFC Vikas Bharti Bishunpur	32.00
4	Organic scented rice	25	Self, JHARCRAFT	2.0
5	Mushroom	10	Self	2.00
6	Lemon grass oil	85 lit	Rural Service Centre, Banalat, Bishunpur	1.27
	Total	**520 q and 85 lit**		**105.64**

7.7 Joint activity carried out with line departments and ATMA

Sl.No	Name of activity	Number of activity	Season	With line department	With ATMA	Both
1.	District level Rabi workshop at Gumla (12/01/22)	01		√		
2.	Aspiration district programme (18/01/22)	01		√		
3.	Visit to KVK farm and Kisan Gosthi	01			√	
4.	Meet with Dc Gumla towards invitation for Technology week (21/03/22)	01		√		
5.	Farmer Scientist Interaction programme at KVK Gumla (05/04/22)	01				√
6.	SAMETI GB Meeting at Nepal House Ranchi (06/04/22)	01		√		
7.	Fishries department GB meeting at Gumla in DC office (12/04/22)	01				√
8.	District MonitoringCommittee (DMC) meeting of FPOs under chairmanship of Hon'ble DC Gumla (20/04/22)	01				√
9.	Meeting towards Live telecast of Hon'ble PM					√
10.	District MonitoringCommittee (DMC) meeting of FPOs under chairmanship of Hon'ble DC Gumla (21/05/22)	01				√
11.	Live telecast of Hon'ble PM (31/05/22)	01		√		
12.	Soil health card-cum-kharif workshop at chainpur (09/06/22)	01			√	
13.	Soil health card-cum-kharif workshop at palkot (10/06/22)	01			√	
14.	District MonitoringCommittee (DMC) meeting of FPOs under chairmanship of Hon'ble DC Gumla (21/06/22)	01				√
15.	Meeting with ATMA personnel at DAO Chamber and presentation towards Oilseeds and Pulses cultivation (27/06/22)	01				√
16.	Meeting towards oilseeds and pulses presentation in DC office (28/06/22)	01				√
17.	District MonitoringCommittee (DMC) meeting of FPOs under chairmanship of Hon'ble DC Gumla (29/07/22)	01				√
18.	Ragi mission meeting at DC office (01/08/22)					√
19.	Meeting with Agriculture Department staff (Newly recruited) 18/08/22	01		√		
20.	District MonitoringCommittee (DMC) meeting of FPOs under chairmanship of Hon'ble DC Gumla (25/08/22)	01				√
21.	SAC Meeting (09/09/22)	01		√		
22.	Meetong on Phasal Vistar Yojna at DAO Office (23/09/22)	01		√		
23.	District MonitoringCommittee (DMC) meeting of FPOs under chairmanship of Hon'ble DC Gumla (11/11/22)	01				√
24.	District MonitoringCommittee (DMC) meeting of FPOs (19/12/22)	01				√

8. Other information

8.1. Prevalent diseases in Livestock/Crops :

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)
Late blight of Potato	Potato	26/12-14/01/22	220 ha (Bishunpur, ghaghra)	30-35%	117 ha
High temperature	Mustard	25/01-March 22	600 ha (Ghaghra, Gumla, Sisai, Bharno & Bishunpur)	4-5 q/ha	350 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 : NA

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 : NA

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

9.3. *m Kisan*Portal (National Farmers' Portal/ SMS Portal)

Type of message	No. of messages	No. of farmers covered
Crop	06	145425
Livestock	0	0
Fishery	0	0
Weather	01	24248
Marketing	0	0
Awareness	04	96985
Training Information	0	0
Other	01	24277
Total	**12**	**290935**

9.4. *KVK* Portal and Mobile App

Sl. No.	Particulars	Description
1.	No. of Visitors visited to the portal	
2.	No. of Farmers registered in portal	24277
3.	Mobile app Developed by KVK	
4.	Name of App (Farmers Groups)	26 WhatsApp group of (1850 farmers)
5.	Language of the App	
6.	Meant of crop/Livestock/Fisheries/others	All
7.	No. of Times downloaded	

9.5 Kisan Mobile Advisory Services (KMAS)

Sl. No.	Discipline	No. of Advisories	No. of Messages (SMSs)	No. of Farmers
1.	Agronomy	160	12	3702
2	Horticulture	65	0	105
3	Soil Science	52	0	135
4	Plant Protection	75	12	3297
5	Ag. Eng.	28	0	35
6	Vet. Sci	125	0	203
7	GKMS	104 (Bulletin)	264 (Daily weather)	58090
	Total	**609**	**288**	**65567**

9.6 a Observation of Swacha Bharat Programme/ Pakhwara

Date/ Duration of Observation	Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
03/06/22	Awareness programme at KVK		20		
21/07/22	Awareness programme at Kubatoli		17		
24/08/22	Awareness programme at Kurag		21		
24/09/22	Awareness programme at Role		22		
24/11/22	Awareness programme at Gunia		46		
22/12/22	Awareness programme at KVK		22		
24/12/22	Awareness programme at KVK		19		
	Swachchta Mah				
02/10/22	Swachchta Oath at KVK and cleaning of premises	11			11
03/10/22	Orientation of school children at Netarhat School	01		15	16
15/10/22	Microbial based agri waste management at Kubatoli village	01	30		31
16/10/22	Cleaning of office campus	08	20		28
17/10/22	Microbial based agri waste management at Salam Nawatoli village	01	20		21
17/10/22	Awareness programme at KVK	10	322		332
18/10/22	Awareness programme at KVK	04	28		32
20/10/22	Cleaning of public place at	04	23		27

Date/ Duration of Observation	Activities undertaken	No. of Participants			
		Staffs	Farmers	Others	Total
	kubatoli village				
27/10/22	Microbial activity at Salam	02	16		18
28/10/22	Orientation of school children at Jatra Tana Bhagat Vidya Mandir Bishunpur	02	41		43

b. Details of Swachhta activities with expenditure

Activities	Number	Expenditure (in Rs.)
1. Digitization of office records/ e-office	All records are kept digital	
2. Basic maintenance	01	
3. Sanitation and SBM		
4. Cleaning and beautification of surrounding areas	02	
5. Vermicomposting/ Composting of biodegradable waste management & other activities on generate of wealth for waste	02	
6. Used water for agriculture/ horticulture application		
7. Swachhta Awareness at local level	12	
8. Swachhta Workshops		
9. Swachhta Pledge	12	23000.00
10. Display and Banner		
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)		
14. No of Staff members involved in the activities		
15. No of VIP/VVIPs involved in the activities		
16. Any other specific activity (in details)		
Total		

9.7 Observation of National Science day : NA

Date of Observation	Activities undertaken
-	-

9.8.Programme with Seema Suraksha Bal (BSF) : NA

Title of Programme	Date	No. of participants

9.9 Agriculture Knowledge in rural school:

Name and address of school	Date of visit to school	Areas covered	Teaching aids used
Jatra Tana Bhagat Vidya Mandir, Bishunpur	13/05/22	Soil health, water conservation & SAP	Classroom lecture

9.10. Details of '*Pre-Rabi Campaign'* Programme

Date of programme	No. of Union Ministers attended the programme	No. of Hon'ble MPs (Loksabha/ 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 ZilaPanchayat	Distt. Collector/ DM	Bank Officials	Farmers	Govt. Officials, PRI members etc.	Total		

9.11. Details of Swachhta Hi Sewa programme organized

Sl. No.	Date	Activity	No. of villages Involved	No. of Participants	No. of VIPs	Name (s) of VIP(s)
1.						

9.12. 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)
1	Mahila Kisan Gosthi	21	21	-	

9.13. 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
		Village	Block	
1.	Hemanti Devi	Shivrajpur	Ghaghra	Cereal+Vegetable+Mango
2.	Anil Oraon	Lashder	Ghaghra	Cereal+Vegetable
3.	Sukhdeo Sahu	Nawadih	Ghaghra	Cereal+Vegetable
4.	Chhotelal Oraon	Kurag	Ghaghra	Cereal+Vegetable
5.	Arjun Kr. Mahato	Manjira	Bishunpur	Cereal+Vegetable+Goat
6.	Sima Oraon	Shivrajpur	Ghaghra	Cereal+Vegetable
7.	Rambilas Oraon	Kurag	Ghaghra	Cereal+Vegetable
8.	Dropodi Devi	Shivrajpur	Ghaghra	Cereal+Vegetable
9.	Punesh Oraon	Kurag	Ghaghra	Cereal+Vegetable
10.	Syamsundar Prasad	Kemba	Palkot	Cereal+Vegetable+Cowpea
11.	Chakradhari Das	Chainpur	Palkot	Cereal+Vegetable
12.	Chandrika Devi	Kasira Pandrepani	Palkot	Cereal+Vegetable+Goat

Sl. No.	Name of Farmer	Address of the farmer with contact no.		Innovation/ Leading in enterprise
		Village	Block	
13.	Pradip Prasad	Chainpur	Palkot	Cereal+Vegetable+Cow
14.	Rajesh Oraon	Shivrajpur	Ghaghra	Cereal+Vegetable+Goat
15.	Ranjit Prasad	Kemba	Palkot	Cereal+Vegetable+Cow
16.	Shankar Singh	Teliya	Raidih	Cereal+Vegetable
17.	Ramesh Munda	Teliya	Raidih	Cereal+Vegetable+Cow+Goat
18.	Sashi Oraon	Teliya	Raidih	Cereal+Vegetable
19.	Baleshwar Oraon	Teliya	Raidih	Cereal+Vegetable
20.	Lalmohan Oraon	Shivrajpur	Ghaghra	Cereal+Vegetable
21.	Saboor Oraon	Nawadih	Ghaghra	Cereal+Vegetable
22.	Smt. Chumna Oraon	Shivrajpur	Ghaghra	Cereal+Vegetable+Goat
23.	Baleswar Tirki	Chainpur	Palkot	Cereal+Vegetable+Goat
24.	Nandlal Baraik	Kemba	Palkot	Cereal+Vegetable+Goat
25.	Dilip Gope	Solenge	Palkot	Cereal+Vegetable
26.	Jetwesh Gope	Orbenge Chapatoli	Palkot	Cereal+Vegetable
27.	Budheswar Tana Bhagat	Tapkara	Palkot	Cereal+Vegetable
28.	Sukhram Bhagat	Tapkara	Palkot	Cereal+Vegetable
29.	Nandu Prasad	Kemba	Palkot	Cereal+Vegetable+Cow
30.	Goshar Guriya	Orbenge Chapatoli	Palkot	Cereal+Vegetable
31.	Krishna Oraon	Bishunpur	Bishunpur	IFS
32.	Rajkumar Yadav	Titahi	Bishunpur	IFS
33.	Bindeswar Oraon	Titahi	Bishunpur	IFS
34.	Madhura Minz	Simla Bartoli	Chainpur	IFS
35.	Prity Kumar	Bishunpur	Bishunpur	IFS
36.	Thema Bhagat	Belagara	Ghaghra	IFS
37.	Suraj Oraon	Kumbhro	Bharno	IFS
38.	Lal Mohan Oraon	Dardag	Ghaghra	IFS
39.	Rajesh Sahu	Nawadih	Ghaghra	IFS
40.	Sheela Devi	Kokotoli	Bishunpur	Crop+Vermicompost
41.	Mendar Beck	Manjhatoli	Raidih	IFS
42.	Anita Devi	Nawagarh Serka	Bishunpur	Crop+Value addition
43.	Shankar Mahali	Karamtoli	Gumla	Pig Farm
44.	Reena Devi	Kashir	Chainpur	Crop+ Beekeeping
45.	Sheela Devi	Titahi	Bishunpur	IFS
46.	Mahabir Mahto	Narekela	Basia	Crop
47.	Bindeshwar Mahto	Narekela	Basia	Crop
48.	Goutam Mahto	Narekela	Basia	Crop
49.	Jayant Oraon	Kumharo	Bharno	Anima
50.	Jewan Oraon	Hesrag	Bishunpur	Horti
51.	Susil Tana Bhagat	Kokotoli	Bishunpur	Crop
52.	Rajni Kanta Tirkey	Simlabar Toli	Chainpur	Animal
53.	Basu Oraon	Chota Ajyatu	Ghaghra	Vegetable
54.	Tatru Oraon	Chota Ajyatu	Ghaghra	Vegetable
55.	Gandur Oraon	Chota Ajyatu	Ghaghra	Horti

Sl. No.	Name of Farmer	Address of the farmer with contact no.		Innovation/ Leading in enterprise
		Village	Block	
56.	Sulendra Oraon	Chota Ajyatu	Ghaghra	Horti
57.	Janki Oraon	Chota Ajyatu	Ghaghra	Horti
58.	Brajesh Mahto	Chota Ajyatu	Ghaghra	Horti
59.	Dewanti Devi	Nawadih	Ghaghra	Horti
60.	Anil Kharia	Samsera	Gumla	Crop
61.	Budhman Oraon	Raghunathpur	Gumla	Crop
62.	Sabita Minz	Koinartoli	Gumla	Crop
63.	Paduman Singh	Koinartoli	Gumla	Crop
64.	Mangara Pradhan	Koinartoli	Gumla	Crop
65.	Kartik Oraon	Koinartoli	Gumla	Crop
66.	Ranthu Oraon	Koinartoli	Gumla	Crop
67.	Jiteshwar Singh	Koinartoli	Gumla	Crop
68.	Sadho Singh	Koinartoli	Gumla	Crop
69.	Sarvanita Ekka	Satkhari	Palkot	Crop
70.	Dhyan Sahu	Koyanjal	Palkot	Crop
71.	Megnath Sahu	Koyanjal	Palkot	Crop
72.	Sanjay Sahu	Chordar	Palkot	Crop
73.	Sukhram Bhagat	Tapkara	Palkot	Crop
74.	Navin Kindo	Tapkara	Palkot	Animal
75.	Sarita Devi (Oraon)	Silam	Raidih	Animal
76.	Mahesh Kerketta	Majhatoli	Raidih	Horti
77.	Kamala Devi	Silam	Raidih	Horti
78.	Baldeo Gop	Harchara	Kamdara	IFS
79.	Prdeep Kumar	Surhu	Kamdara	Lac Cultivation
80.	Firan Oraon	Mahuatoli	Bishunpur	Beekeeping
81.	Chinta Sahu	Kotbo	Kamdara	Beekeeping
82.	Ram Sahu	Khambhiya	Ghaghra	IFS
83.	Balbhadra Gop	Jargatoli	Ghaghra	IFS
84.	Rabi Oraon	Nagar	Sisai	IFS+Lac Cultivation
85.	Santar Singh	Lawkhamban	Palkot	Beekeeping
86.	Punia Devi	Gunia	Ghaghra	IFS
87.	Pandey Oraon	Gunia	Ghaghra	IFS
88.	Thema Bhagat	Belagara	Ghaghra	IFS
89.	Manoj Kumar Sahu	Saleguttu	Kamdara	Beekeeping
90.	Dularam Khadiya	Semra	Sisai	Agriculture
91.	Jitrai Bhagat	Belagara	Ghaghra	Agriculture
92.	Subhas Oraon	Gunia	Ghaghra	Agriculture+Vegetable Cultivation
93.	Bina Oraon	Gunia	Ghaghra	Agriculture
94.	Viri Oraon	Gunia	Ghaghra	Vegetable Cultivation
95.	Narayan Singh	Lawkhamban	Palkot	Beekeeping
96.	Bandey Ram Oraon	Belagara	Ghaghra	Vegetable Cultivation
97.	Gopal Gop	Burhu	Ghaghra	IFS
98.	Budhman Oraon	Jargatoli	Ghaghra	Agriculture
99.	Gulab Khes	Gara	Kamdara	Lac Cultivation
100.	Rajesh Oraon	Nawatoli	Gumla	Agriculture

Sl. No.	Name of Farmer	Address of the farmer with contact no.		Innovation/ Leading in enterprise
		Village	Block	
101.	Kapil Dev	Phori	Gumla	Vegetable cultivation
102.	Gandur Bhagat	Manjeera	Bishunpur	Agriculture
103.	Surendra Oraon	Manjeera	Bishunpur	Agriculture
104.	Santosh Oraon	Gokhulpur	Sisai	Agriculture
105.	Jainarayan Singh	Belagara	Ghaghra	Agriculture
106.	Brinda Gop	Burhu	Ghaghra	Vegetable Cultivation
107.	Champa Oraon	Belagara	Ghaghra	Vegetable Cultivation
108.	Soma Bhagat	Gunia	Ghaghra	Goat Farming
109.	Banehwar Gop	Pandariya	Sisai	IFS
110.	Manoj Kr. Manjhi	Gunia	Ghaghra	Agriculture
111.	Mahesh Sahu	Duttra	Chainpur	Beekeeping
112.	Sarwan Kr. Manjhi	Gunia	Ghaghra	Vegetable Cultivation
113.	Anil Oraon	Khambhiya	Ghaghra	Agriculture
114.	Ramesh Oraon	Nagar	Sisai	Lac Cultivation
115.	Roshan Kumar	Duttra	Chainpur	Vegetable Cultivation
116.	Shivnath Oraon	Gutti	Ghaghra	IFS
117.	Basanti Devi	Nawagarh Serka	Bishunpur	Lemon Grass based Cultivation
118.	Basmuni Devi	Borang	Bishunpur	Crop Diversification
119.	Kalawati Devi	Nawagarh Serka	Bishunpur	Dairy Based Farming
120.	Malkan Oraon	Banalat Beritoli	Bishunpur	Organic rice grower Farmer
121.	Rambricha Kherwar	Banalat Malang	Bishunpur	Organic rice grower Farmer
122.	Bhaula Oraon	Silam,	Raidih	Dairy Based farming
123.	Jai Mangal Oraon	Silam,	Raidih	Vegetable Grower
124.	Raj Kishor Lal	Narekela	Basia	Vegetable Grower
125.	Kandaru Oraon	Borang	Bishunpur	Vegetable Grower
126.	Dileswar Oraon	Borang	Bishunpur	IFS
127.	Mildev Oraon	Borang	Bishunpur	Goat + Crop Diversification
128.	Naresh Oraon	Borang	Bishunpur	Vegetable Grower
129.	Suresh Bhagat	Role	Bishunpur	Vegetable Grower
130.	Birendra Oraon	Benti	Bishunpur	Vegetable Grower
131.	Digambar Munda	Chatam	Bishunpur	Vegetable Grower
132.	Bahura Oraon	Lawagayi	Sisai	Goat + Crop Diversification
133.	Rama Oraon	Kumharo	Bharno	Vegetable Grower
134.	Sukh dev Sahu	Nawadih	Ghaghra	Crop Diversification
135.	Shiv Nath Oraon	Baharserka	Bishunpur	Vegetable Grower
136.	Nanda Oraon	Nawadih	Ghaghra	Vegetable Grower
137.	Kalwari Oraon	Sehal Banshitoli	Ghaghra	Horticulture Based
138.	Maheswar Bhagat	Tilaih Toli	Jari	Vegetable Grower
139.	Chandra Dev Oraon	Heth Aadar	Ghaghra	Vegetable Grower
140.	Kiran Dev Oraon	Baharserka	Bishunpur	Vegetable Grower
141.	Vijay Kumar Bhagat	Bhawargani,	Bishunpur	Vegetable Grower
142.	Ratia Oraon	Langratand	Bishunpur	Mango + Crop Diversification
143.	Dilwar Kherwar	Range	Bishunpur	Mango + Crop Diversification

Sl. No.	Name of Farmer	Address of the farmer with contact no.		Innovation/ Leading in enterprise
		Village	Block	
144.	Bandha Brijiya	Langratand	Bishunpur	IFS
145.	Dinesh Oraon	Range	Bishunpur	Mango + Crop Diversification
146.	Hari Kherwar	Langratand	Bishunpur	Mango + Crop Diversification
147.	Suresh Oraon	Balatu	Bishunpur	IFS
148.	Budhmania Oraon	Karamtoli	Bishunpur	Goat + Crop Diversification
149.	Philip Bhagat	Arangloya	Bishunpur	Vegetable Grower
150.	Bindeswar Mahto	Narekela	Basia	Vegetable Grower
151.	Jeevan Bhagat	Khatanga	Ghaghra	Vegetable Grower
152.	Sandeep Oraon	Ratu Jamtoli	Chainpur	Goat + Crop Diversification
153.	Karmu Baraik	Ratu Jamtoli	Chainpur	Goat + Crop Diversification
154.	Kiran Dev Oraon	Karamtoli	Bishunpur	Vegetable Grower
155.	Mandeep Yadav	Titahi	Bishunpur	IFS
156.	Birendra Mahto	Narekela	Basia	Vegetable Grower
157.	Soma Khariya	Semra Pakartoli	Sisai	Buffalo based cultivation
158.	Atwa Khariya	Semra Pakartoli	Sisai	Crop Diversification
159.	Parasmunni Oraoin	Titahi	Bishunpur	Goat Farming
160.	Mandeep Devi	Titahi	Bishunpur	Goat Farming
161.	Bhikhram Oraon	Kataidamar	Sisai	Lac cultivation
162.	Damodar Singh	Nagar	Sisai	Lac cultivation
163.	Ramesh Oraon	Kataidamar	Sisai	Lac cultivation

9.14. Revenue generation

Sl.No.	Name of Head	Income(Rs.)	Sponsoring agency
1.	Swachatta Action Plan	100000.00	ATARI-Patna
2.	District Agromet Project (GKMS)	3206.00	
3.	Kisan Bhagidari Prathmikta Hamari	81656.00	
4.	Garib Kisan Sammellan	225000.00	
5.	RKVY Drone Project	1750000.00	
6.	Natural farming project	267000.00	
	Total	**2426862.00**	

9.15. Resource Generation:

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

9.16. Performance of Automatic Weather Station in KVK

Date of establishment	Source of funding i.e. IMD/ICAR/Others (pl. specify)	Present status of functioning
2012-13	CRIDA (ICAR)	Not Working
2021	IMD	Working

9.17. 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
Jharkhand	Gumla	Contingent crop			
		Contingent crop and animals			
		Contingent crop and animals			
		Lac cultivation			

10. Report on Cereal Systems Initiative for South Asia

a) **Year: 2020**
b) **Introduction / General Information: Introduction / General Information: Survey work was conducted up to Feb.2020 After that work has been discontinue due to COVID – 19. Unspent money has already been transferred to ATARI, Patna**

	Title	Objective	Treatment details	Date of sowing	Replication	Result with photographs
Experiment 1						
Experiment 2						
Experiment 3						
…						
..						
Others (If any)						

11. Details of TSP

a. Achievements of physical output under TSP during 2022

Sl.	Activities	Physical Achievement	
1)	Trainings	**No. of Trainings/Demos**	**No. of beneficiaries**
a.	Farmer	213	3542
b.	Women		3416
c.	Rural Youths	30	558
d.	Extension Personnel	12	160
2)	OFT	**No. of OFTs**	**No. of beneficiaries**
		10	118
3)	FLD	**No. of FLDs**	**No. of beneficiaries**
		1055	1265
4)	Mobile agro- advisory to farmers	**No. of advisory**	**No. of beneficiaries**
		399	328093
5)	Other activities		
a.	Participants in extension activities (No.)	17102	
b.	Production of seed (q)	103.09	
c.	Production of Planting material (No. in lakh)	0.24910	
d.	Production of Livestock strains (No. in lakh)		
e.	Production of fingerlings (No. in lakh)	0	
f.	Testing of Soil, water, plant, manures samples (Nos.)	92	
g.	Asset creation (Number; Sprayer, ridge maker, pump set, weeder etc.)		
	1. Sewing Machine	15 pc	
	2. Mango plans	1500 no.	
	3. Gardening tools	80 pc	
	4. Nursery kit (Jharna-100 pc, Panja-50, Khurpa-50)		
	5. LDPE Delivery pipe	20 no.	
	6. Digital weighing machine	11 pc	
	7. Looper	24 pc	
	8. Spade	741 pc	
	9. Vegetable carate	200 pc	
	10. Plastic drum (100 lit)	42 pc	
	11. Plastic Bucket (5 lit)	42 pc	
	12. Winnowing fan	10 pc	
	13. Tripal	40 pc	
h.	No. of other programmes (Swachha Bharat Abhiyaan, Agriculture knowledge in rural school, Planting material distribution, Vaccination camp etc.)		

b. Fund received under TSP in 2022-23 (Rs. In lakh): **2,33,32,151.00**

c. Achievements of physical outcome under TSP during 2022

Sl. No.	Description	Unit	Achievements
1	Change in family income	%	75
2	Change in family consumption level	%	70
3	Change in availability of agricultural implements/ tools etc.	No. per household	72

d. Location and Beneficiary Details during 2022

District	Sub-district	No. of Village covered	Name of village(s) covered		ST population benefitted (No.)		
					M	F	T
Gumla	Gumla, Chainpur, Basia		Serka, Banari, Amtipani, Helta, Deepadih, Chapatoli, Dardag, Rehe kubatoli, Banalat, Titahi, Borang, Manjeera, Cheda, Mahuwatoli, Tumse, Bishunpur, Jori, Longa, Katia, Bhawargani, Langratanr, Kumhro, Tusrukona, Jalim, Oreya, Podhetoli, Baghmara, Bartoli, Kodhi, Landuwa, Tetarpani, Kathgaon, Lattatoli, Jitiyatoli, Dahkul damgarha, Range, Serka siyartoli, Chandali, Chhota ajiyatu, Podha panari, Bendi, Bada ajiyatu, Roke tenga, Orbenga chapatoli, Orbenga dipatoli, Nagru patratoli, Tapkara, Kenba dumartoli, Koinjali, Chainpur, Kurumtolsera, Kurum, Kurum Dolse, Tokedenga, Sijan, Sijan Katadanr, Kodekera, Telgaon, Basdih, Kasira, Kolebira, Kulabira, Patiya, Sikiriyatoli, Koinjara, Konatoli, Bhawari, Bhurso, Kathuwapani, Shivrajpur, Belagarha, Gunia, Jargatoli, Khambhiya, Sugakanta, Sikoi, Karamtoli, Sirkot, Badari, Oreya, Chirodih, Dewargani, Titahi, Chatam, Chapatoli, Koynartoli, Tusrukona, Holang, Jahup, Salgi, Kugaon, Karanjtoli, Katanga, , Borang, Konatoli, Ghaghra, Barwenagar, Sehal Bansitoli, Kokotoli, Role, Tumse, Phori, Chipri, Harhatoli, Bendi, Kota, Kechki barapath, Sato, Sakhuwatoli, Lundari, Bankir, Sato, Nawatoli, Sato bagichatoli, Jahup kokotoli, Chingri nawatoli, Jehan gutuwa, Balatupath, Bimarla, Sato kota, Bimarla sarnatoli, Bheetar serka, Bansitoli, Ruki, Gungatoli, Hisir, Dardag Chilampokhar,	Asset creation	593	610	1203
				OFT	52	44	96
				FLD	645	365	1010
				Training	3010	2542	5552
				Extension Activities	8596	5620	14216
				`Total	**12896**	**9181**	**22077**

12.Details of SCSP : NA

Sl.	Activities	Physical Achievement	
1)	Trainings	No. of Trainings/Demos	No. of beneficiaries
a.	Farmer		
b.	Women		
c.	Rural Youths		
d.	Extension Personnel		
2)	OFT	No. of OFTs	No. of beneficiaries
3)	FLD	No. of FLDs	No. of beneficiaries
4)	Mobile agro- advisory to farmers	No. of advisory	No. of beneficiaries
5)	Other activities		
a.	Participants in extension activities (No.)		
b.	Production of seed (q)		
c.	Production of Planting material (No. in lakh)		
d.	Production of Livestock strains (No. in lakh)		
e.	Production of fingerlings (No. in lakh)		
f.	Testing of Soil, water, plant, manures samples (Nos.)		

13. **PROGRESS REPORT OF NICRA KVK** (Technology Demonstration component) 2022

Natural Resource Management

In-situ moisture conservation measures

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Summer ploughing	43	-	25	-	-	14	23	2	4	16	27	43	By farmers

2: *Ex-situ* moisture conservation measures (Water harvesting and efficient use/critical/supplemental irrigation)

Name of intervention undertaken	Nos under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Outlet & Inlet cleaning at Shivrajpur	02	02	-	-	-	-	-	-	-	-	-	13	2 Pond
Cleaning of Canal at Nawatoli	02	02	-	-	-	-	-	-	-	-	-	16	250 meter
Cleaning of Canal at Shivrajpur	01	01	-	-	-	-	-	-	-	-	-	10	100 meter

3: Soil health improvement interventions

Name of intervention undertaken	Numbers under taken	No of units	Area (ha)	No of farmers covered / benefitted									Remarks
				SC		ST		Other		Total			
				M	F	M	F	M	F	M	F	T	
Sunnhemp (Green manuring)	8	-	3.0	-	-	3	5	-	-	3	5	8	To improve soil health and crop productivity
Promotion of Natural farming	20	20	4.0	-	-	10	8	2	-	12	8	20	
Compost enrichment	20	20	-	-	-	7	10	2	1	9	11	20	
Regular ploughing of mango orchard to incorporate the plant litter in soil	25	25	10.8	-	-	11	14	-	-	11	14	25	

Crop Management:-

Name of intervention undertaken		Area (ha)	No of farmers covered / benefitted									Avg. Yield (Q/ha)	Remarks
			SC		ST		Others		Total				
			M	F	M	F	M	F	M	F	T		
Drought tolerant/improved crop varieties	Paddy Var.Swarna Shreya	36.4	-	-	14	17	-	-	14	17	31	36.2	Drought tolerance crop variety.
	Paddy CR Dhan 320	0.40	-	-	2		-	-	2		2	37.7	
	Groundnut Var.- TG-51	1.0	-	-	3	2	-	-	3	2	5	19.4	
	Ragi Var.-BM-3	8.5	-	-	8	6	-	-	8	6	14	13.5	
	Blackgram GPU-28	2.0	-	-	4	1	-	-	4	1	5	10.86	
	Sesame Var.- Suprava	2.0	-	-	4	-	-	-	4	-	4	10.37	
	Red Gram Var.Rajeev Lochan	2.25	-	-	6	6	-	-	6	6	12	Pod development stage	Tolerance YMV & Wilt.
	Mustard Var.PM-30	12	-	-	12	18	-	-	12	18	30	-	Bio-fortified variety
Advancement of planting dates of *rabi* crops in areas with terminal heat stress (10-12 days advancement in date of sowing)	Wheat Sabour Nirjal	3.5	-	-	7	7	-	-	7	7	14	-	Less water requiring variety
	Wheat HD3118	0.35	-	-	1	-	-	-	1	-	1	-	Heat tolerant crop variety
	Wheat Birsa Gehu 4	1.0	-	-	1	3	-	-	1	3	4	-	High yielding & stress tolerance crop variety.
	Wheat DBW252	1.2	-	-	2	1	-	-	2	1	3	-	
	Wheat K8027	0.50	-	-	1	1	-	-	1	1	2	-	
	Lentil Var.-IPL-220	2.0	-	-	4	1	-	-	4	1	5		
	Linseed Var.- JLS-95	2.0	-	-	4	1	-	-	4	1	5	-	
Nutrient Management	Sunnhemp	0.50	-	-	5	-	-	-	5	-	5	-	To improve soil health and crop productivity
Introduction of Heat tolerant crop for higher income & nutritional security	Okra-Anukranti (F_1)	3.0	-	-	9	7	-	-	9	7	16	92.3	• Cropping strategy for higher income. • Heat tolerate crop.
	Summer Moong Var.- IPM 2-3	3.4	-	-	7	9	-	-	7	9	16	8.7	

Intervention under Integrated Farming Systems	Mango Var.-Malda	3	-	-	3	15	-	-	3	15	18	-	Increase in Economic Yield
	Litchi Var.-Shahi litchi	2	-	-	6	4	-	-	6	4	10	-	

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	
PPR Vaccination in Goat through convergence	318 No	28	-	-	-	10	18	-	-	10	18	28	Immunization against PPR small ruminants
FMD Vaccination in Cattle through convergence	69 No.	16	-	-	-	6	10	-	-	6	10	16	Immunization against FMD

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	
Custom Hiring Centre	01 (03 Implements)	10 ha	-	-	13	12	-	-	-	-	25	Farmers has succeeded in accessing the implements from custom hiring center
Climate literacy through a village level weather station	01		-	-	-	-	-	-	–	–	1024 household	Two in a week
Fodder Bank	140	140 unit	-	-	13	-	-	-	13	-	140	Establishment of wheat fodder storage at farm.
Seed Bank	-	63 ha			63	28			63	28	91	Establishment of Rice seed bank at NICRA villages through Beej Gram Program

Capacity building :-

Thematic area	No of Courses	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Vermicompost Production	1	-	-	8	14	-	-	8	14	22
Scientific Cultivation of Summer Moong	1	-	-	6	10	-	-	6	10	16
Application of mulch in okra & tomato	1	-	-	-	10	-	-	-	10	10
Integrated Nutrient Management	1	-	-	8	24	0	1	8	25	33
Scientific Cultivation of Rice	1	-	-	14	15	1	-	15	15	30
Scientific technique of Fish cum duck farming	1	-	-	24	1	-	-	24	1	25
Integrated Nutrient Management	1	-	-	22	4	-	-	22	4	26
Insect Pest Management in mango plant	1			9	-	1	-	10	-	10
Compost Enrichment	1	-	-	27	0-	-	-	27	-	27
Scientific Cultivation of Mustard	2	-	-	25	22	-	-	25	22	47
Scientific Cultivation of Wheat	1	-	-	12	12	-	-	12	12	24
Back Yard Poultry Farming	1	-	-	6	5	-	-	6	5	11
Total	**13**									**281**

Extension activities:-

Thematic area	No of activities	No of beneficiaries								
		SC		ST		Other		Total		
		M	F	M	F	M	F	M	F	T
Field days	3	-	-	45	47	8	2	53	49	**102**
Kisan Gosthi	5	-	-	37	94	-	-	37	94	**131**
Farmer Scientist Meet	2	-	-	80	131	11	21	91	152	**243**
Agriculture Drone Technology Demonstration	1			23	13	9	-	32	13	**45**
RAWE Programs	2	-	-	6	12	12	10	18	22	**40**
NICRA Workshop	1	-	-	59	77	4	-	63	77	**140**
Agriculture Education Day	1	-	-	-	51	-	-	-	51	**51**
World Soil Day celebration	1			39	63	1		40	63	**103**

14. a. Awards/Recognition received by the KVK in year 2022

Sl. No.	Name of the Award	Year	Conferring Authority	Amount (Rs.)	Purpose
01.	State level samman	2012	Dainik Jagran Group	--	Water conservation
02.	Best NICRA KVK – Zone-II	2014	ICAR	100000.00	
03.	Best NICRA KVK – Zone-IV	2019	ICAR	-	
04.	NITI Aayog ranking KVK under Grade A	2017-18	NITI Aayog		
05	Pt. Deen Dayal Upadhyay Rastriya Krishi Vigyan Protsahan Puraskar	2019	ICAR	750000.00	
06	**Outstanding KVK Award by Outlook group**	**2022**	**Outlook Group**		
07	**Certificate of appreciation by ATARI Patna**	**2022**	**ATARI- Patna**		**Transfer of technology under NICRA Project**

b. Award received by Farmers from the KVK district

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
1.	SARAS MELA (National level award at New Delhi)	Smt. Shakuntala Devi Vill- Serka Block – Bishunpur Dist – Gumla Mob No. – 9334326522	2009-10	Ministry of Rural Development Govt. of India (CAPART)		SHG Capacity Building
2.	District level best farmer award under Mukhyamantri Kisan Khushali Yojna (MKKY)	Ranjeet Prasad Vill – Kaimba Post – Tengaria Block – Palkot Dist – Gumla Mob. No. – 7488537806	2010-11	District agriculture department, Gumla		Commercial vegetable cultivation
3.	District level best farmer award under Mukhyamantri Kisan Khushali Yojna (MKKY)	Kailash nag Vill – Telgaon Block – Gumla Dist – Gumla Mob. No. – 9955457732	2010-11	District agriculture department, Gumla		Commercial vegetable cultivation
4.	State level felicitation at BAU Agrotech Kisan Mela	Smt. Lalita Devi Vill- Banari Post- Banari Block – Bishunpur Dist – Gumla Mob No. –	2010-11	BAU Ranchi		SHG Capacity Building
5.	Felicitated Best farmer	Chinta Sahu Vill- Kutbo Gaunghutola Block – Kamdara Dist – Gumla Mob No. –	2010-11	Vikas Bharti Bishunpur		Bee Keeping

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
6.	National Level felicitation in Farmers Innovator's meet at Suttur)	Sagar Bhagat Vill- Karanjtoli Block – Ghaghra Dist – Gumla Mob No. – 9835678057	2010-11	ICAR, New Delhi		Community mobilization towards ensuring irrigation facilities
7.	State Level award at Ranchi (Udyog Mela)	Maheshwar Bhagat Vill- Dahudar Block – Jari Dist – Gumla Mob No. – 9608488247	2011-12	Ministry of Industries, Govt. of Jharkhand		SHG Capacity Building
8.	State level best farmer award at BAU Agrotech Kisan Mela	Kailash Nag Vill – Telgaon Block – Gumla Dist – Gumla Mob. No. – 9955457732	2012-13	BAU Ranchi		SRI
9.	Zonal level felicitation under (Innovative farmers meet)	Gopal Gope Vill- Burhu Block – Ghaghra Dist – Gumla Mob No. – 8292757047	2012-13	ZPD, Zone-II, Kolkat		Plastic cup for raising vegetable seedlings
10.	Zonal level felicitation under (Innovative farmers meet)	Purnima Devi Vill- Hethadar Block – Ghaghra Dist – Gumla Mob No. – 9304511864	2012-13	ZPD Zone-II, Kolkata		Mushroom production
11.	Zonal level felicitation under (Innovative farmers meet)	Beerbal Oraon Vill-Salam Nawatoli Block – Bishunpur Dist- Gumla	2012-13	Zonal Project Directorate, Zone-II		Innovation
12.	Gujrat vibrant Farmers awards	Raju Oraon Vill. Kurag Block: Ghaghra Dist. Gumla Cont. 8877007741	2013-14	Govt. of Gujrat	51000/-	Integrated farming
13.	Best women farmer Awarded by Kalraj Mishra Minister GOI	Mrs. Punia Devi Vill- Gunia Block – Ghaghra Dist- Gumla	2015-16	Vikas Bharti Bishunpur		Improved farming
14.	Best farmer Awarded by Kalraj Mishra Minister GOI	Samsai Oraon Vill- Belagarha Block – Ghaghra Dist – Gumla	2015-16	Vikas Bharti Bishunpur		IFS
15.	Best women farmer Awarded by Kalraj Mishra Minister GOI	Sheela Oraon Vill – Deepa Bagicha Block – Bishunpur Dist – Gumla Mob – 9386802615	2015-16	Vikas Bharti Bishunpur		Vermicompost production

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
16.	Entrepreneurial activity (Pashu Mitra) Awarded by Kalraj Mishra Minister GOI	Jitram Bhagat Vill – Balatu Block – Bishunpur Dist – Gumla Mob – 7488223287	2015-16	Vikas Bharti Bishunpur		Pashu Mitra
17.	Entrepreneurial activity (Pashu Mitra) Awarded by Kalraj Mishra Minister GOI	Shambhu Toppo Vill – Lawagai Block – Sisai Dist – Gumla Mob – 9939319861	2015-16	Vikas Bharti Bishunpur		Pashu Mitra
18.	Entrepreneurial activity (Seed Production) Awarded by Kalraj Mishra Minister GOI	Rajkishore Lal Vill – Narekela Block – Basia Dist – Gumla Mob – 9934871850	2015-16	Vikas Bharti Bishunpur		Seed production
19.	Entrepreneurial activity (Seed Production) Awarded by Kalraj Mishra Minister GOI	Bindeshwar Mahato Vill – Narekela Block – Basia Dist – Gumla Mob – 9693258719	2015-16	Vikas Bharti Bishunpur		Seed production
20.	Best innovative farmer awards of the district in Agro tech kisan mela, BAU Ranchi	Rajesh Sahu vill+post – Nawdiha Dist – Gumla	2015-16	BAU, Ranchi		Innovation
21.	1. Khadi and Sars award In national level khadi awareness saras mela at ranchi 2. Best SHG award	Mrs. Anita Devi Vill – Serka Block – Bishunpur Dist – Gumla Mob – 9386601065	2015-16	1. Khadi Gyamodyog 2. BAU, Ranchi		Value addition
22.	Progressive farmer award of the district in Agro tech kisan mela, BAU Ranchi	Phul kuwari Bhagat	2017-18	BAU Ranchi		Commercial cultivation of Mushroom
23.	Progressive farmer	Shila Devi Vill –Dipatoli Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vermicompost
24.	Progressive farmer	Nanda Oraon Vill –Nawadih Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vegetable Nursery
25.	Progressive farmer	Birendra Oraon Vill –Beti Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Medicinal and Vegetable production
26.	Progressive farmer	Philip Bhagat Vill –Arangloya Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vegetable cultivation
27.	Progressive farmer	Narayan Bhagat Vill –Belagarha Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Pulses production

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
28.	Progressive farmer	Manju Devi Vill –Bahar Serka Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Goat and Pig rearing
29.	Progressive farmer	Premchand Oraon Vill –Borang Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Organic farming
30.	Progressive farmer	Lalmohan Oraon Vill –Shivrajpur Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vegetable cultivation
31.	Progressive farmer	Chamu Oraon Vill –Shivrajpur Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Commercial mango production
32.	Progressive farmer	Ravi Oraon Vill –Sato Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Seed production
33.	Progressive farmer	Balka Oraon Vill –Jhargaon Block - Gumla	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vegetable cultivation
34.	Progressive farmer	Bhikhu Oraon Vill –Sawariya Block - Gumla	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vegetable culivation
35.	Progressive farmer	Balbhadra Gope Vill –Jargatoli Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Oilseed production
36.	Progressive farmer	Etwari Devi Vill –Belagarha Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Pig rearing (IFS)
37.	Progressive farmer	Phul Kumari Vill –Helta Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Mushroom cultivation
38.	Progressive farmer	Manoj Sahu Vill –Garai Block - Kamdara	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Bee keeping
39.	Progressive farmer	Gulab Khes Vill –Gadha Block - Kamdara	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Lac cultivation
40.	Progressive farmer	Rajesh Kumar Sahu Vill –Nawadih Block - Ghaghra	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Nursery Raising, Vegetable cultivation
41.	Progressive farmer	Champa Bhagat Vill –Rehe Kubatoli Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Cash Crops
42.	Progressive farmer	Ramesh Bhagat Vill –Gadha Block - Kamdara	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Lac cultivation
43.	Progressive farmer	Sukhram Oraon Vill –Bahar Serka Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Vegetable cultivation
44.	Progressive farmer	Mahabir Bhagat Vill –Sato Block - Bishunpur	2018-19	Host Organisation (Vikas Bharti Bishunpur)	4000	Seed production
45.	Progressive farmer	Ajay Kumar Sahu Vill – Nawadih Block - Ghaghra	2018-19	Under ARYA Project		Goat farming
46.	Progressive farmer	Lal Mohan Oraon Vill – Dardag Block – Ghaghra	2018-19	Under ARYA Project		Goat farming

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
47.	Progressive farmer	Tetla Oraon Vill – Bahar Serka Block - Bishunpur	2018-19	Under ARYA Project		Goat farming
48.	Progressive farmer	Surendra Oraon Vill –Manjeera Block - Bishunpur	2018-19	Under ARYA Project		Goat farming
49.	Progressive farmer	Rama Sahu Vill –Rehe Kubatoli Block - Bishunpur	2018-19	Under ARYA Project		Goat farming
50.	Progressive farmer	Naresh Kumar Sahu Vill –Chapka Block - Ghaghra	2018-19	Under ARYA Project		Pig Farming
51.	Progressive farmer	Phulmani Devi Vill –Serka Chatti Block - Bishunpur	2018-19	Under ARYA Project		Pig Farming
52.	Progressive farmer	Gorti Khess Vill –Beti Block - Bishunpur	2018-19	Under ARYA Project		Pig Farming
53.	Progressive farmer	Sukhdeo Oraon Vill –Narma Danr toli Block - Bishunpur	2018-19	Under ARYA Project		Pig Farming
54.	Progressive farmer	Rabindra Oraon Vill –Rehe Kubatoli Block - Bishunpur	2018-19	Under ARYA Project		Pig Farming
55.	Progressive farmer	Roshan Gulab Khes Vill- Gara Block - Kamdara	2018-19	Under ARYA Project		Lac cultivation
56.	Progressive farmer	Ravi Oraon Vill- Katai Damar Block - Sisai	2018-19	Under ARYA Project		Lac cultivation
57.	Progressive farmer	Goida Oraon Vill- Gokhulpur Block - Sisai	2018-19	Under ARYA Project		Lac cultivation
58.	Progressive farmer	Pradeep Kumar Sahu Vill- Surhu Block - Kamdara	2018-19	Under ARYA Project		Lac cultivation
59.	Progressive farmer	Shiv Shankar Munda Vill- Gara Block - Kamdara	2018-19	Under ARYA Project		Lac cultivation
60.	Progressive farmer	Chinta Sahu Vill- Kotabo Block - Kamdara	2018-19	Under ARYA Project		Bee Keeping
61.	Progressive farmer	Manoj Sahu Vill- Kotabo Block - Kamdara	2018-19	Under ARYA Project		Bee Keeping
62.	Progressive farmer	Narayan Singh Vill- Kotabo Block - Kamdara	2018-19	Under ARYA Project		Bee Keeping
63.	Innovative Farmer	Shri Rajesh Sahu Village + Post – Nawdiha Block – Ghaghra	2019	ICAR		Innovation

Sl. No.	Name of the Award	Name of the Farmer	Year	Conferring Authority	Amount	Purpose
64.	Jal Nayak	Shri Soma Oraon Vill- Gunia Block – Ghaghra	2019	Zee News		Water conservation
65.	Jal Nayak	Shri Dileshwar Kherwar Vill- Banalat Block – Bishunpur	2019	Zee News		Water conservation
66.	Jal Nayak	Shri Champa Bhagat Village – Kubatoli Block – Bishunpur	2019	Zee News		Water Conservation
67.	Jal Nayak	Shri Sudhir Oraon Village – Sato Block – Bishunpur	2019	Zee News		Water conseravtion
68.	Progressive Farmer	Shri Ravi Oroan Village – Kataidamar Block – Sisai	2019	Host Organisation (Vikas Bharti Bishunpur) By Hon'ble Cabinet Minister, Government of India Shri Arjun Munda		Lac Production
69.	Progressive Farmer	Shri Santar Singh Vill – Lawkhambhan Block - Palkot	2019	Host Organisation (Vikas Bharti Bishunpur) By Hon'ble Cabinet Minister, Government of India Shri Arjun Munda		Bee Keeping
70.	Women Farmer Samman	Smit Rupmati Devi Village – Nawaghar Serka Block – Bishunpur	2020	Vikas Bharti Bishunpur by Shri Ram Nath Kovind, Honorable Presedent of India		Leman Grass Cultivation
71.	Women Farmer Samman	Smit Anita Devi Village – Bishunpur Block – Bishunpur	2020	Vikas Bharti Bishunpur by Shri Ram Nath Kovind, Honorable Presedent of India		Value Addition
72.	Women Farmer Samman	Smit Sayamuni Devi Village – Salamnawatoli Block – Bishunpur	2020	Krishi Vigyan Kendra Gumla by Shri Sameer Oraon Honorable M.P. Raj Shabha, Govt. of India		Mango cultivation
73.	Women Farmer Samman	Smit Sila Devi Village – Salamnawatoli Block – Bishunpur	2020	Krishi Vigyan Kendra Gumla by Shri Sameer Oraon Honorable M.P. Raj Shabha, Govt. of India		Goat Farmimg
74.	Women Farmer Samman	Smit Fagni Devi Village – Salamnawatoli Block – Bishunpur	2020	Krishi Vigyan Kendra Gumla by Shri Sameer Oraon Honorable M.P. Raj Shabha, Govt. of India		Mango cultivation
75.	Agrotech Kisan Mela	Kishore Kujur Vill-Ratantoli Block –Dumri	2023	BAU Ranchi		Pig farming

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

Enhancing Livelihood Security of Tribal farmers of village Banalat of Gumla (Jharkhand) through promotion of mustard crop in Rice-Follow System

Background

Gumla (Jharkhand) is a tribal dominated district. About 68.94 percent of population is comes under tribal community. The farming situation of the district is rainfed and the farming system is monocropping based in general. 90 percent farmers are small and marginal land holder groups. Bleassed with nature's beauty, the district of Gumla is covered with dense forest, hills and rivers. It is situated in the South west portion of the Jharkhand. The farmers of the district is practicing Rice-Follow, Maize-Follow, Oil seed-Follow and Pulses-Follow in general. In very limited area they go for double or multiple crops. The only barrier is open grazing, default farming practices and lack of awareness. Keeping all these facts at micro level, KVK has decided to developed the Banalat (Previously this area is known for LWE area) area as hub of mustard cultivation.

Process

In the mean time DRMR Bharatpur identified KVK Gumla through ATARI Patna for promotion of mustard crop. For whom 100 acre of FLD was sanctioned in year 2018-19. And accordingly the FLD plan was conducted in Bishunpur, Ghaghra and Sisai block of Gumla. Keeping the constraint viz, open grazing, limitation of irrigation water and community mobalization in the centre village. Banalat was identified for demonstration of mustard. The selection of the village was done by seeing availability of irrigation water (Ghaghra river flowing across the village) approachability of the field from village, existing cropping system (i.e. Rice-Follow) and interest of the farmers with keeping the resource availabilities in the village Banalat. It was decided to conduct FLD on mustard in 40 acres and approach was cluster. Proper on and off campus training was organized in a regular way. Before conducting the FLD soil sample was collected and fertilizer application was made on STR based. Major critical input support viz, variety Pusa mustard-28, irrigation devices, fertilizer and need based pesticide were provided among the 45 participant farmers. Sowing of the crop was done in between 5-10 Dec. 2019. Regular follow up, advisory services was provided by the concerned scientist. Three irrigation was provided at critical stages, which resulted in bumper crop growth and finally the yield. For wider extension three field day was organized. A documentary was also made by Doordarshan Ranchi. Byback approach was also made with an objective to encourage the farmers towards the adoption of mustard crop in rice based system.

Impact:- The entire 45 participant farmers receives bumper yield in tune of 12-18.5 qha^{-1} and succeeded in earning of Rs 30000 to Rs 52000 net return /ha. From the same field in earlier they were not earn anything during *Rabi* season. This approach of farming is not only open the eyes of the Banalat villagers but the entire areas and different stack holders too for converting the Rice-Fallow system into Rice-Mustard system.

Economics: - Through these interventions 45 participant farmers has succeeded in production of 192 quintal of mustard grain seed which is worth of Rs. 6.33 lakh. For enhancing the profitability, value chain approach has been also undertaken. An oil extraction machine has already been installed under institutional arrangements mechanism with the support of DRMR Bharatpur.

Performance of the technology v/s local check

Used practice in the district	Yield (q ha^{-1})	Gross cost (Rs ha^{-1})	Gross income (Rs ha^{-1})	Net income (Rs ha^{-1})	B: C ratio
Farmer practice	12.8	24000	53760	30160	2.24
Demonstration	18.5	28000	77700	52867	2.77
Percent increase – 44.53					

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 organization/ Society	Trust Deed No.& date	Date of Trust Registration Address	Proposed Activity	Commodity Identified	No. of Members	Financial position (Rupees in lakh)	Success indicator
1	FPO –Nagar, Sisai	--	--	Lac cultivation	Lac	82	--	--
2	FPO – Nawahia, Ghaghra	--`	--	Goat Farming	Goat Farming	91	--	--
3	FPO- Karamtoli, Gumla	--	--	Pig Farming	Pig Farming	60	--	--
4	FPO- Kotbo, Kamdhara	--`	--	Bee Keeping	Bee Keeping	73	--	--
5	FPO- Banalat, Bishunpur	--	--	Organic Rice	Organic Rice	56	--	--
6	FPO- Bishunpur	--`	--	Medicinal & Aeromatic plant	Medicinal & Aeromatic plant	236	--	--
7	**FPO- Raidih Phal utpadak Sahyog Sameti ltd**	--	**03 July 2021**	**Agri based business**	**Mango**	**304**	**155080.00**	--
8	**FPO- Gumla Sabji utpadak Sahyog Sameti ltd**	--`	**13 July 2021**	**Agri based business**	**Tomato**	**301**	**197010.00**	--

17. Integrated Farming System (IFS)

A. 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)	Remarks	No. of farmer adopted practicing IFS	% Change in adoption during the year
1	Rainwater harvesting pond		0.12	0.16 q	-	1920.00			
2	HD Guava		0.50	0.87 q	3200.00	1955.00			
3	Pomegranate		0.31	-	0	0			
4	Vegetable *Rabi & Summer*		0.20	16.59 q	16242.00	19605.00			
5	Crops (*Rabi & Kharif*)		0.20	11.0 q	23191.00	30080.00			
6	Dairy	Milk	0.20	74.5 lit	284023.00	3725.00		25	
		Cow & Calf		02 no.		8000.00			
		Urine		400 lit		2000.00			
		Cowdung		06 trolley		7200.00			
		Vermi compost		122.16 q	0	122160.00			
7	Goatry		0.30	22 no.	32400.00	187000.00			
8	Duck		0.013	10 no. duck 204 eggs	600.00	4032.00			
9	Mushroom		0.0016		0	0			
10	Vermicompost		0.0017	161q	84820.00	138000.00			
	Worm			no.					
10	Jeevamruth		0	8100 lit	34892.00	92850.00			
11	Pig		0.033	Piglet -50 no.	127130.00	253125.00			
				Pig – 15 no.		112000.00			
	Total		**1.8793 & 1 Unit**		**606498.00**	**983652.00**			

* Stock in hand ** Sell only of Rs. 22500.00 rest quantity is in stock

B) Activities under IFS

Sl. No.	Component Name	No. of Components established	Area (ha)	No. of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1.	Rainwater harvesting pond	01	0.12	01	02		
2.	HD Guava	01	0.50	01	02		
3.	Pomegranate	01	0.31	01	01		
4.	Vegetable	01	0.20	01	02		
5.	Crops	01	0.20	01	02		
6.	Dairy	01	0.20	01	0		
7.	Goatry	01	0.30	01	05		
8.	Duck	01	0.013	01	01		
9.	Mushroom	01	0.0016	01	02	20	
10.	Vermicompost	01	0.0017	01	02	05	10
11.	Pig	01	0.033	01	01		

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 the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
1	Seed Production	1. Taken as an enterprise with the involvement of mahila mandal (SHG) 2. KVK has provided the foundation seed to seed growers. 3. Seed growers' produce certified seed with seed norms 4. KVK facilitates in registration process and marketing.	12000-18000/ q Additional income	05 Beej utpadan sameties involved (39 no. of farmers)	
2	Value addition	1. Value adition in Jamun, tamrind, Tomato, Elephant Yam and Medicinal & Aromatic plant through SHG 2. Employement and income generation 3. High B:C ratio	Black berry 9500-12000/q	65	
3	Piggery & Goat	1. Improved breed Pig (T&D) & Goat (Blank Bengal) 2. Lucrative venture among the tribal community 3. Adaptable in this climate 4. Better body weight gain	35000-55000/ annum	100	
4	Lac cultivation (Pest management)	1. Naturally available of Host plant (Ber & Kusum) in abundance. 2. Climate resilient profitable cultivation 3. Proper management of host plant yielded 70-80% better yield.	45000-60000/ha	225	

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 the technology	No. of farmers adopted the technology in the district	One high resolution 'Photo' in 'jpg' format for each technology
5	Beekeeping	1. Naturally available of host plant 2. Lucrative venture among tribal community 3. Oilseed crops (Mustard and Niger) yield increase (20-25%)	30000-45000	85	

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

	Database prepared/ covered for		KVK level Committee		Various activity conducted for farmers
Phase	Total no. of villages	Total no. of farmers	Date of formation	Name of members	
I	41	1621	09/07/2020	Dr Sanjay Kumar, A.B Tiwari, Sunil Kumar, N. K. Vaishya, Dr. Vinod Kumar, Yogesh Kumar	FAP, Mobile Helpline, Mobile advisories, promotion of Maghdoot & Damini app
II	156	3015			

20. Information on Visit of Ministers to KVKs, if any

Date of Visit	Name of Hon'ble Minister	Name of Ministry	Salient points in his/ her observation (2-3 bulleted points)

21. a) Information on ASCI Skill Development Training Programme, undertaken during 2022

Year	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 SDMS Portal (Y/N)	Fund utilized for the training (Rs.)
2022							

21. a) Information on ASCI Skill Development Training Programme, if undertaken during 2017-18, 2019, 2020 and 2021

Year	**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 SDMS Portal (Y/N)**	**Fund utilized for the training (Rs.)**
2016-17	Mushroom Grower	Neeraj Kumar Vaishya	02/03/17	26/03/17	20	Yes	159183.00
	Quality Seed Grower	Atal Bihari Tiwari	01/03/17	26/03/17	20	Yes	158743.00
2017-18	-	-	-	-	-	-	-
2018-19	Quality Seed Grower	Neeraj Kumar Vaishya	08/01/19	01/02/19	20	Yes	167407.00
	Mushroom Grower	Atal Bihari Tiwari	05/12/18	30/12/18	20	Yes	163378.00
2019-20	Micro Irrigation Technician	Er. Eno Rai	01/03/20 to 17/03/20	03/09/20 to 11/10/20	20	Yes	210806.00
2019-20	Animal health worker	Dr Binod Kumar	12/02/20 to 17/03/20	29/09/20 to 03/10/20	20	Yes	304205.00
2020-21	Animal health worker	Dr Binod Kumar	18/02/21	27/03/21	25	Yes	380250.00

b) Information on Skill Development Training Programme (Other than ASCI or less than 200 hrs., if any) if undertaken during 2022

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	
Mali training	Mali training	120	0	0	6	0	2	2	8	2	10	
Enterprenureship development	Cutting and tailoring	120	0	1	0	15	0	2	0	18	18	
Para extension worker	Para extension worker	120	0	0	14	0	2	0	16	0	16	
Enterprenureship development	Cutting and tailoring	240	0	0	0	12	0	0	0	12	12	
Training and Pruning of Litchi & Guava	Training and Pruning of Litchi & Guava	56	0	0	10	2	0	0	10	2	12	
Mali Training	Mali Training	72	0	0	3	2	1	0	4	2	6	
Cow care and management	Cow care and management	56	0	0	11	3	8	7	19	10	29	
Para vet	Para vet	56	0	0	11	0	1	0	12	0	12	
Fish cum Duck farming	Fish cum Duck farming	56	0	0	18	0	0	0	18	0	18	

22. Information on NARI Project (if applicable) :NA

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
-	-	-				

22.a Details of established Nutrition Garden in Nutri-Smart village

Sl.	Name of Nutri-Smart Village	Type of Nutrition Garden	Number	Area (sqm)	No. of beneficiaries
1.	Belagara	Backyard/Kitchen garden	05	80 sq m each	05
2.	Gunia		05		05
3.	Banalat		05		05
4.	Kasitoli		05		05
5	Shivrajpur		05		05
TOTAL			**20**		**20**

22.b. Details of Bio-fortified crops in Nutri-Smart village

Name of Nutri-Smart Village	Season	Activity (OFT/FLD)	Category of crop (cereal/ pulses/oilseed/ fruits & veg./ others	Name of Crop	Variety	Area (ha)	No. of beneficiaries
Belagara, Gunia,Khambhiya, Kataidamar & Jargatoli	Rabi	FLD	Oilseed	Mustard	PM-30	40	67

22.c. Value addition in Nutri-Smart village

Name of Nutri Smart Village	Name of Crop/veg./fruits/other	Name of Value added product	Activity (OFT/FLD)	No. of farmers/ beneficiaries
Belagara & Gunia	Mustard	Mustard oil	CFLD	25

22.d. Training programmes in Nutri-Smart village :

Name of Nutri Smart Village	Area of Training	No of courses	No. of beneficiaries
Shivrajpur	Cutting and tailoring	01	02
Banalat	Organic rice	02	45
Kashitoli	Mushroom production	01	10

22.e Extension activities under NARI Project : NA

Name of Nutri-Smart Village	Title of Activity	No. of activities	No. of beneficiaries

23. Activities under KSHAMTA : NA

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

24. Information on Krishi Kalyan Abhiyan Phase- I/ Phase-II/ Phase-III, if applicable

Krishi Kalyan Abhiyan- I/II

A. Training

Name of programme	*No. of programmes*	*No. of farmers benefitted*									*No. of officials attended the programme*
		SC		*ST*		*Others*		*Total*			
		M	*F*	*M*	*F*	*M*	*F*	*M*	*F*	*T*	
KKA-I											
KKA-II											

B. Distribution of seed/ planting materials/ input/ others

Name of programme	No. of Programme	Total quantity distributed				No. of farmers benefited									No. of other officials (except KVK) attended the programme
		Seed (q)	Planting material (lakh)	Input (kg)	Other (kg/ No.)	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
KKA-I															
KKA-II															

C. Livestock and Fishery related activities

Name of programme	No. of Programme	Activities performed				No. of farmers benefited									No. of other officials (except KVK) attended the programme
		No. of animals vaccinated	No. of animals dewormed	Feed/ nutrient supplements provided (kg)	Any other (Distribution of animals/ birds/ fingerlings) [No.]	SC		ST		Others		Total			
						M	F	M	F	M	F	M	F	T	
KKA-I															
KKA-II															

D. Other activities

Name of programme	Activities	No. of farmers benefited									No. of other officials (except KVK) attended the programme
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	
KKA-I	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										
KKA-II	Soil Health Card Distributed										
	NADEP Pit established										
	Farm implements distributed										
	Others, if any										

Krishi Kalyan Abhiyan- III

No. of villages covered	No. of animal inseminated	No. of farmers benefitted									Any other, if any (pl. specify)
		SC		ST		Others		Total			
		M	F	M	F	M	F	M	F	T	

25. ARYA 2022

KVK	No. of entrepreneurial units established	No. of Training programs organized	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
Gumla						
Pig farming	08	07	112	29	07	01
Goat farming	11	05	76	30	09	02
Lac cultivation	25	06	131	14	25	0
Beekeeping	04	01	13	0	04	0

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

Sl. No.	Name of the programme	Date of the programme	Venue	Purpose	No. of participants
1	Empowerment of Women through Mushroom Cultivation under Aspirational District Project (Gumla)	July 2020 continue	20 village	Empowerment of Women	200
2	Promotion of Organic Rice cultivation under Aspirational District Project (Gumla)	May 2019 continue	01 village	Promotion of Organic Rice	56
3	Promotion of Medicinal, Aeromatic & NTFP	2018-19 continue	32 village	Promotion of Medicinal, Aeromatic & NTFP	1275
4	Bio Tech KISAN	November 2020	03 village	Livelihood	60
5	Natural farming	July 2022	03 village	Promotionof natural farming	08

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

ATTACHED

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