ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2023 (January 2023 to December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No.
				of visitors (hits)
Krishi Vigyan Kendra	Office	FAX	kvk_ndb@yahoo.com	www.kvknandurbar.net
At.Po Kolde,	02564-299315			
Tal.Dist Nandurbar (M.S.)				
425412				

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

Address	Telephone		E mail	Website address
	Office	FAX		
Dr. Hedgewar Seva Samiti,	02564-295201		drhssho@gmail.com	drhssnandurbar.org.in
Nandurbar. B.No 110 Girivihar				
Housing Society, Nandurbar				
425412				

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

Name	Telephone / Contact				
	Office	Mobile	Email		
Shri. Rajendra Sahebrao Dahatonde	02564-299315	9657323334	kvk_ndb@yahoo.com		

1.4. Date and Year of sanction: 19 December 2001

1.5. Staff Position (as on December, 2023)

SI. No.	Sanctioned post	Name of the incumbent	Mobile No.	Discipline	If Permanent, Please indicate		Date of joining	If Temporary,
					Current Pay Band	Current Grade Pay		pl. indicate the consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Shri R.S. Dahatonde	9657323334	Post Harvest technology	147900		14.05.2019	Permanent
2.	Subject Matter Specialist	Vaccant		Horticulture				
3.	Subject Matter Specialist	Shri J.N.Uttarwar	8280227544	Agricultural Engineering	92700		16-08-2002	Permanent
4.	Subject Matter Specialist	Shri P.C. Kunde	9890756141	Plant protection	92700		12-06-2003	Permanent
5.	Subject Matter Specialist	Shri U. D. Patil	8668485726	Crop production	84900		05.06.2008	Permanent
6.	Subject Matter Specialist	Sau. A.H.Deshmukh	9503612702	Home Science	63100		15.05.2019	Permanent
7.	Subject Matter Specialist	Vaccant		Post harvest technology				
8.	Programme Assistant	Vaccant		Veterinary				
9.	Computer Programmer	Shri. V.S.Bagal	9923459461	Computer Programmer	64100		02-02-2005	Permanent
10.	Farm Manager	Shri.R.R.Bhavsar	9922722992	Farm Manager	66000		16-08-2002	Permanent
11.	Accountant/ Superintendent	Ku. G. N. Kadam	9604041798	Assistant	50500		05.11.2011	Permanent
12.	Stenographer	Shri.Rahul R. Nawale	9404749963	Stenographer	44800		01-07-2002	Permanent
13.	Driver 1	Shri. R.S.Rajput	9404749676	Driver 1	36100		01-07-2002	Permanent
14.	Driver 2	Shri.K.Y.Patil	9823976708	Driver 2	36100		01-10-2004	Permanent

15.	Supporting staff 1	Shri. K.C.Marathe	9923364625	Supporting staff 1	29700	 01-07-2002	Permanent
16.	Supporting staff 2	Shri.K.J.Sonawane	9657524930	Supporting staff 2	29700	 01-10-2004	Permanent

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	0.40
2.	Under Demonstration Units	0.05
3.	Under Crops	16.20
4.	Horticulture	1.60
5.	Pond	0.09
6.	Others if any (Specify)	

1.7. Infrastructural Development:

A) Buildings

S.	Name of	Source	Stage					
No.	building	of	(Complet	е		Incomplete	
		funding	Completi	Plinth	Expenditu	Starting	Plinth	Status of
			on	area	re (Rs.)	year	area	construction
			Year	(Sq.			(Sq.	
				m)			m)	
1.	Administrative	ICAR		500				
	Building	TOAK	2004-05	300	2750006			
2.	Farmers		2006-07		1821000			
	Hostel							
3.	Staff Quarters	ICAR	2006-07	400	2148000			
4.	Fencing	ICAR	2005-06	-	1680000			
5	Rain Water							
	harvesting	ICAR	2006-07	-	879000			
	system							
6	Threshing	ICAR	2008-09		200000			_
	floor	10/111	2000 07		20000			
7	Farm Podown							
8	Soil and water	ICAR	2005-06	60	1200000	2005		
	testing lab							
9	Mini soil							
	testing Kit							
10	Sell Contour							
11	Demo unit	ICAR	2005-06	107	418000			
i	ICT lab							
ii	Solar Panel							
12	counter seal							
13	Other pl							
	mention							
14	Administrative	ICAR	2004-05	500	2750006			
	Building	IOAK	2006-07	300	1821000			
15	Other pl							
	mention							

B) Vehicles

Type of vehicle	Year of	Cost	Total kms.	Present
	purchase	(Rs.)	Running	status
Tractor	2002	400000		Said for
				condom
Motor cycle TVS	2004	50000		Not in use
Motor cycle Hero Honda	2006	50000	107996	Good
4 Wheeler Xylo	2014	800000	324334	Said for
				condom

C) Equipment & AV aids

Name of the equipment /	Year of	Cost (Rs.)	Present status
Implements	purchase		
Photocopier	2001 – 2002	90000.00	Not in use
Electronic typewriter	2001 – 2002	13905.00	Working
White Board	2001 – 2002	4150.00	Good
TV – VCD	2002 – 2003	18000.00	Working
Computer & Printer	2002 – 2003	55300.00	Working
Trailer	2002 – 2003	88500.00	Working
Slide Projector	2002 – 2003	15000.00	Not in use
Cupboard	2002 – 2003	5140.00	Good
Agricultural Equipment	2002 – 2003	10000.00	Good
3 HP Pump set	2002 – 2003	8060.00	Working
Fax Machine	2003 – 2004	8500.00	Working
Cupboard	2003 - 2004	19530.00	Good
Office Table	2003 - 2004	19940.00	Good
EPBX Machine	2003 – 2004	18000.00	Working
Revolving Chairs	2003 - 2004	14000.00	Good
Plastic Chairs	2003 – 2004	11000.00	Good
Study Chairs	2003 – 2004	13600.00	Good
Ceiling Fan	2003 – 2004	9300.00	Working
Pedestal Fan	2003 – 2004	3600.00	Working
Computer Table & Chair	2003 – 2004	10000.00	Working
Cooler	2003 – 2004	11000.00	Working
PVC Pipes	2003 – 2004	4735.00	Nil
Rain Gun	2003 – 2004	8010.00	Working
Computer Related Equip.	2003 – 2004	7755.00	Working
White Board	2003 – 2004	11294.00	Good
Black Board	2003 – 2004	436.00	Good
Loud Speaker	2003 – 2004	10800.00	Working
Refrigerator	2003 – 2004	12500.00	Working
Podium	2003 – 2004	1500.00	Good
Sony Hipoint	2003 – 2004	4500.00	Working
Camera Stand	2004 – 2005	1640.00	Good
Curtains	2004 – 2005	8400.00	Good
Dais Chairs	2004 – 2005	5950.00	Good
Digital Camera	2004 – 2005	11300.00	Not in use
Digital Thermometer	2004 – 2005	1507.00	Not in use

Dual Board	2004 – 2005	3240.00	Good
Equipment	2004 – 2005	12613.00	Good
Fixo Graph	2004 – 2005	8849.00	Good
Handy Camera	2004 – 2005	24400.00	Working
Information Board	2004 – 2005	14435.00	Good
Iron Rack	2004 – 2005	5000.00	Good
LCD Screen	2004 – 2005	7800.00	Good
M Hall Panel	2004 – 2005	12405.00	Good
Modular System	2004 – 2005	9800.00	Not in use
Multipurpose Hall Dais	2004 – 2005	15500.00	Good
Notice Board	2004 – 2005	3300.00	Good
Office Cupboard	2004 – 2005	9500.00	Good
Office Table	2004 – 2005	5700.00	Good
Plastic Chair	2004 – 2005	13050.00	Good
Pedestal Fan	2004 – 2005	3500.00	Good
Public Address System	2004 – 2005	7395.00	Good
Revolving Chairs	2004 – 2005	3600.00	Good
Ceiling Fan	2004 – 2005	15080.00	Working
Study Chairs	2004 – 2005	61000.00	Good
T O Table	2004 – 2005	15500.00	Good
Visitors Chairs	2004 – 2005	13836.00	Good
Computer & Accessories	2005 – 2006	100000.00	Working
LCD Projector	2005 – 2006	72000.00	Working
UPS System	2005 – 2006	28000.00	Working
Inverter	2005 – 2006	30000.00	Working
Furnishing of Hostel -	2005 – 2006	44800.00	Cood
Mattresses / Pillows / Shawls			Good
Cots	2005 – 2006	87500.00	Good
Curtains	2005 – 2006	7000.00	Good
Dining Table	2005 – 2006	9000.00	Good
Energy Lamp	2005 – 2006	3050.00	Not in use
Fans	2005 – 2006	17000.00	Working
Gas Burners	2005 – 2006	3560.00	Not in use
Gas Cylinder	2005 – 2006	5100.00	Working
Hostel Table	2005 – 2006	6500.00	Good
Italian Cabinet	2005 – 2006	10200.00	Good
Mirror & Hangers	2005 – 2006	5000.00	Nil
Notice Board	2005 – 2006	4000.00	Good
Plastic Chair	2005 – 2006	14000.00	Good
Solar water heating System	2005 – 2006	22000.00	Working
Steel Cupboard	2005 – 2006	10125.00	Goods
Utensils	2005 – 2006	40000.00	Goods
Utensils	2005 – 2006	5165.00	Goods
Bullock drawn tractor	2006 – 2007	28000.00	Working
Groundnut digger	2006 – 2007	6385.00	Working
Jyoti bullock drawn planter	2006 – 2007	9900.00	Not in use
Seed drill	2006 – 2007	29150.00	Working
Power-weeder	2007-2008	70550.00	Working
Multi crop thresher	2008 - 2009	75000.00	Working

Atomic Absorption Unit	2008 - 2009	1000000.00	Working
Plastic chair	2016-17	50000	Good
I Ball Tablet	2016-17	10000	Good
IT- Laptop , Desktop, Printer	2016-17	95000	Good
E connectivity- GPS	2016-17	15000	Good
Trolly Sprayer	2016-17	38160	Good
Rotavator	2016-17	87000	Good
Rotary Tiller	2016-17	60000	Good
Wheel Trolly	2016-17	8500	Good
Spray Pump	2016-17	6340	Good
Bullock Drawn Implements	2018-19	39200	Good
Small Tractor drawn implements	2018-19	135720	Good
Tractor operated Sprayer	2018-19	75600	Good
Farm Implements – Small tools	2018-19	29944	Good
Bullock drawn	2018-19	6770	Good
Vegetable and paddy	2018-19	37500	
transplanting			Good
Animal feed machine	2018-19	134400	Good
Urea Briquetting Machine	2018-19	200600	Good
Electric motor	2018-19	11900	Good
Leaf shredder and Hand	2018-19	71738	
winch wheel barrows			Good
Neem seed pulverizer	2018-19	62540	Good
Reversible MB plough and	2018-19	79501	0 1
Roller			Good
Multicrop Reaper	2018-19	145040	Good
Mobile Shredder	2018-19	169547	Good
G-Lioyd Split Air Conditioner	2020-21	58500	Good
Sound System	2020-21	33450	Good
Furniture Expences(Table,Cupboard, Table-Top, etc)	2020-21	131000	Good
G-LG- Small Refrigerator	2020-21	15890	Good
Equipments- Linova PC, UPS- Artis, EPSiON LCD Projector	2020-21	91600	Good
Microtek Invertor and Batteries	2020-21	45700	Good
Celling Fan - Crompton	2020-21	23860	Good
Convention Oven	2022-23	82600	Good
6Trays(Electrical)			2 %
Flour Mill(Pukhraj)16"JHBT	2022-23	81000	Good
Mobile Rice Mill with 2HP	2022-23	40540	Good
Rice cum Flour Mill	2022-23	178600	Good
Table Top Huller for all Small Millett	2022-23	102260	Good

1.8. Details of SAC meeting conducted in the year :

Date	Name and Designation of Participants	Salient Recommendations	Action taken
28.12.2023	Shri. K. K. Patil		
	Hon. Shri. Dr. C. D. Dorkar		
	Hon. Shri. U. B. Hole		
	Shri. Patilbhau Mali		
	Shri. Swapnilbhau Patil		
	Shri. P. S. Late		
	Shri. M. P. Pawar		
	Shri. Sachin Gangurde		
	Shri. Y. S. Hizwala		
	Sau. Archnatai Valvi		
	Sau. Ashabai Komalsing Rajput		
	Shri. Suresh Ananda Patil		
	Shri. Ganesh Pathare		

2. DETAILS OF DISTRICT / JURISDICTION AREA OF KVK

2.1. Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise		
1	Crop + Horticulture + Live stock		
2	Crop + Horticulture		
3	Crop + Livestock		
4	Crop + Livestock + Enterprise		

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

S.	Agro-climatic Zone	Characteristics	
No.	(Planning Commission)		
1	Zone – I, East part of	Scarcity zone	
	Nandurbar & Shahada tahsil		
2	Zone – II, Navapur tahsil	Western ghat Zone	
1	Zone – III Akrani & Northern part of Akkalkuwa	Sub Moutain Zone	
	Zone –IV Taloda & southern	Western Maharashtra plain Zone	
	part of Akkalkuwa & western		
	part of Shahada Tahsil		

a) Topography

S.	Agro ecological situation	Characteristics
No.		
1		Rainfall less than 500mm. Very light to medium type soils. Long dry spells, Kharif predominant Cotton, Bajra, Groundnut and Onion are the main crops of the AES.

2	Scarcity Zone AES-2	Rainfall less than 750mm., but more than 500mm.soils are medium to black. Kharif and rabi are predominant seasons. Cotton, Bajra, Mung, Maize, are the main crops. Mung followed by Rabi Jowar is present crop rotation.			
3	Western Ghat Zone AES-3	Average rainfall 750 to 1000mm. Medium to deep soils. Good irrigation potential. Sugarcane, Paddy, Maize, Cotton, Vegetables are the main crops.			
4	Western Ghat Zone AES-4	Average rainfall 1000 mm. light to medium soils. Rice, Sugarcane, finger millets, small millets are main crops			
5	Sub Mountain Zone AES-5	Average rainfall 1700 to 2500mm. Maximum 350 to 450 and minimum 100 to 160 c. temperature. Rice, Maize, Jowar, Bajra, Gr.nut and Small millets are main Kharif crops, while Wheat, Gram and vegetables are important rabi crops.			
6	Western Maharashtra Plane Zone AES-6	Assured rainfall area having average rainfall 950 to 1250mm. Heavy to very heavy soils. Tapi river valley area. jowar, cotton, mung, maize, Bajra are main crops during Kharif. rabi jowar, wheat, gram are crops during Rabi Sugarcane and Banana are also having economic importance			

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Digraj series	Shallow soil depth, Basalt rock is below. The land have low productivity, low water holding capacity and low fertility, restricted plant growth	
2	Tintarvani series	Low water holding capacity, very low productivity	
3	Patoda series	Medium soil depth (50 cm.) contains 5-10 % calcium, medium drainage, hard rock below, found cracks in summer, low water holding capacity and less fertile	
4	Kumbhaphal series	Soils having 25 cm depth, weathered murum is below. Low water holding capacity, difficult to cultivate stony land	
5	llegaon soil series	Having 1-3 % slope, having drainage problem, underground rock is basalt mix with lime.	
6	Phulkalas soil series	Weathered basalt resulted in hard murum is observed below. The soils are difficult to cultivation, medium textured soils.	Nandurbar and
7	Rajani soil series	Soils get cracks and hence plant roots are damaged reducing yield of crop	

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2023)

S. No	Сгор	Area (ha)	Production (MT)	Productivity (q./ha)
	Major Field crop	os		
1	Paddy	30000	360.90	1201.16
2	Wheat	23600	381.80	1615.34
3	Jowar	26800	359.30	1339.20
4	Rabi jowar	8900	108.40	1212.21
5	Pearl millet	6800	45.23	659.48
6	Maize	48500	851.77	1751.40
7	Gram	31000	383.20	1234.27
8	Red gram	22400	78.20	348.00
9	Black gram	9450	35.58	376.330
10	Green gram	4100	9.04	217.10
11	Sunflower	590	00	00
12	Groundnut kh	1800	11.82	653.90
13	Groundnut summer	6300	81.37	1281.14
14	Seasamum	700	0.01	190.90
15	Rabi maize	5017	120.45	24.01
16	Safflower	1420	1.88	1318.70
17	Soybean	29200	370.56	1264.80
18	Cotton	125800	1725.98	233kg lint
	Major Horticultu	ural crops		
19	Mango	8486	-	400
20	Chilli	4000	-	040
21	Onion	2000	-	100
22	Banana	4000	-	500
23	Ber	1221	-	75
24	Guava	1344	-	220
25	Custard apple	1153	-	30
26	Papaya	1400	-	500
27	Watermelon summer	744	-	12

2.5. Weather data (2023)

Month	Normal	Normal Rainy days	Temper	ature (°	Rela	tive
	RF(mm)	(number)	C	:)	Humidi	ty (%)
			Maximu	Minimu	Maximu	Minimu
			m	m	m	m
January	00	00				
February	00	00				
March	36	03				
April	4.5	01				
May	02	00				
June	47	03				
July	131.5	13				

August	58	08			
September	203	09			
October	00	00	34.7	20.6	
November	58	02	31.7	17.9	
December	06	01			
Total	546	40			

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population (No)	Production	Productivity
Cattle			
Crossbred	14533		
Indigenous	322374		
Buffalo	72100		
Sheep	15227		
Goats	272753		
Pigs			
Crossbred	1117		
Indigenous	9543		
Rabbits	1711		
Poultry			
Hens (Crossbred)		_	
Desi	50000	_	
Fish (Reservoir)			

2.7. Details of Operational area / Villages

Taluka /	Name of	Major crops &	Major problem	Identified Thrust Areas
Block	the village	enterprises	identified	
Nandurbar	Junmohida, Kakarda.	Cotton, Chilli, Onion, Gram, Bajara, Wheat, G.Nut. Maize,Banana,Pap aya,watermelon	Inefficient water management, Heavy incidence of pest and diseases, Lack of knowledge regarding IPM & INM Practices, Imbalanced fertilizer application. Lack of knowledge regarding processing	,IPM,INM fertigation, Primary processing
Taloda	Revanagar Shelvai Umarkuva	Sugarcane, Soybean, Gram, Wheat, Cotton, Green gram, Brinjal Okra, Paddy,Jowar	Low productivity, Poor fertilizer management, Labour shortage, Lack of knowledge regarding IPM & INM Practices,	improved farm implement INM, ICM, improve varieties with improved packages

Shahada	Adgaon	Sugarcane, Soybean, Gram, Wheat, Cotton, Papaya, Banana	Low productivity, Poor fertilizer management, Labour shortage, Pest & disease incidence. Lack of knowledge regarding processing	Fertigation techniques improved farm implement INM, IPM, improved varieties with improved packages
Dhadgaon	Kharvad Katri, Bhujgaon	Little millet, Barnyard Millet, Jowar, Bajara, Gr. Nut, Black gram, Green gram, Bengal gram, mango, garlic, custard apple	Low yield due shallow soil, improper fertilizer management, incidence of pest and diseases drudgery in farming operation Lack of knowledge regarding processing	Improved Varieties Water conservation practices IPM INM Farm implements Primary processing
Navapur	Nimboni, Sonpada Palipada Talavipada	Paddy, Rabi Jowar, Soybean , Groundnut, Brinjal, Okra, Cauliflower, Cluster bean, mango	Lack of knowledge regarding seed treatment, Improper fertilizer management, Incidence of pest and disease, Inefficient water management	Improved variety Seed treatment INM IPM , Water management ,Improved farm implements
Navapur	Ninmboni	Paddy, Rabi Jowar , Soybean Brinjal, Okra, Cauliflower, Cluster bean, mango	Improper fertilizer management, Incidence of pest and disease, Water management, Lack of knowledge regarding processing	Improved variety Seed treatment INM, IPM, Water management Honey bee.
Akkalkuva	Bhagdari Bijripati, Debramal	Pulses, Soybean, Jowar, Niger, mango, garlic custard apple, Onion.	Local varieties, Lack of knowledge regarding processing	Improved Varieties, Farm implement, Small scale processing, INM, IPM

2.8. Priority thrust areas:

Crop/Enterprise	Thrust area				
Cotton	Integrated Nutrient Management, Integrated Pest Management				
	Drip irrigation. Integrated crop Management, Improved farm				
	implements				
Paddy	Improved varieties, Improved farm implements, Pest & disease				
	management, Processing and Value Addition				
Ground nut	Integrated crop Management, Improved farm implements				
Sorghum, maize	Soil moisture conservation , Nutrient management, Pest				
	management, Processing and Value Addition				

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Papaya	Raised bed technology, Integrated Nutrient Management, water
	management, Integrated Pest Management, bio control methods
	of pests & diseases.
Rabi sorghum	Improved Varieties ,Improved farm implements, water
	management, Integrated Pest Management, INM
Bengal gram,	Seed treatment, Improved Varieties, cultivation practices, INM,
	Pest and disease management
Summer Ground	Integrated Nutrient Management, pest & disease management,
nut	ICM, Improved farm implements
Mango	Integrated Nutrient Management, pest & disease management,
	Processing and Value Addition
Banana	Integrated Nutrient Management, pest & disease management,
	improved farm implements, fertigation techniques, Processing and
	Value Addition
Onion	Integrated Nutrient Management, water management, Integrated
	Pest and disease Management, storage
Chilli	Integrated Nutrient Management, water management, Integrated
	Pest and disease Management
Brinjal	Integrated Nutrient Management, water management, Integrated
Dilijai	Pest and disease Management, ICM
Okra	Integrated Crop management, Improved varieties
Cluster bean	Integrated Crop management, Improved varieties
Watermelon	Integrated Crop management
Soybean	Improved Varieties Integrated Nutrient Management, pest &
Dod gram	disease management
Red gram	Improved Varieties, Integrated Nutrient Management, Pest
Croop grom	management, Processing and Value Addition
Green gram	Seed treatment, Improved Varieties, cultivation practices,
	Integrated Nutrient Management, pest & disease management,
Diode grows	ICM, Processing and Value Addition
Black gram	Seed treatment, Improved Varieties, cultivation practices,
	Integrated Nutrient Management, pest & disease management,
Mhoot	ICM, Processing and Value Addition
Wheat	Integrated Nutrient Management, pest & disease management
Onion seed	Honey bee, integrated crop management
production	Cultivation and concernation of final 2 for 1
Veterinary/Livestock	Cultivation and conservation of feeds & fodders.
production	Importance of mineral mixtures & additives in the feeds
	Clean milk production
	Profitable dairy farming
	Back yard poultry
Post Harvest	Awareness creation on harvesting, drying and storage of agril.
Technology	Produce.
	Awareness creation on cleaning and grading of grains.
	Quality improvement in Amchur preparation from Mango.
	Processing and value addition of pulses and oilseeds
	Reduction of wastage and shelf life enhancement.
	Value addition of Minor millets.

3. TECHNICAL ACHIEVEMENTS

3.1. A. Details of target and achievements of mandatory activities

OFT					FL	.D	
	1				2	2	
Numb	lumber of OFTs		Number of farmers		Number of FLDs		mber of irmers
Targe	Achievem	Targe	Achievem	Targe	Achievem	Targe	Achievem
ts	ent	ts	ent	ts	ent	ts	ent
	4		52		2		26
	3		36		4		56
	2		26		3		56

Training				Extension Programmes			
	;	3	4				
	Number of Courses		Number of Participants		Number of Programmes		mber of ticipants
Targe	Achievem	Targe	Achievem	Targe	Achievem	Targe	Achievem
ts	ent	ts	ent	ts	ent	ts	ent
	42		1364				
	27		907				
	36	1618					

Seed Pro	oduction (Qtl.)	Planting r	materials (Nos.)	
	5		6	
Target	Achievement	ement Target Achievem		

-	oultry strains and rlings (No.)	Bio-pr	roducts (Kg)
	7		8
Target	Target Achievement		Achievement

3.1. B. Operational areas details during 2023

S.No.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Intervention (OFT, FLD, Training, extension activity etc.)*
1	Little millets	 Unawareness about seed treatment Low productivity Use of local variety 	150	Dhadgaon	FLD/Training, Demonstration
2	Foxtail millet	 Unawareness about seed treatment Low productivity Use of local variety 	100	Dhadgaon	FLD/Training, Demonstration
3	Cotton	Attack of sucking pests.	60000	Nandurbar block & Navapur tahsil	FLD/Training
		INM, Balance Nutritional managenet	50000	Shahada blaock, Nandurbar block & Navapur tahsil	OFT/FLD/Training
		Attack of pink bollworm	65000	Eastern part of Nandurbar &	Demonstration
		Integrated nutrient management	25000	Nandurbar block	FLD/Training
		Less conservation of rain water	42000	Eastern part of Nandurbar	Training
		Low productivity and increased cost of cultivation of Rain fed Bt cotton	55000		Training & Extension activities
2	Soybean	Nutrient management & Pest management	20000	Dhadgaon,Nandurbar & Navapur block	Cluster FLDs/OFT
3	Vegetables	Pest Management & Nutrient Management	5000	Navapur tahsil	FLD/OFT
		Seed availability	5000	Navapur tahsil	Seed production pragramme
4	Banana	Nutrient	2500	Shahada & Taloda	FLD/Trainings

		Managanant		hlask	
		Management & Sigatoka		block	
		disease			
		management			
		Pest	6000	Navapur block &	Cluster FLDs
		Management &	0000	Dhadgaon block	ordstor 1255
5	Groundnut	Nutrient]	
		Management			
		Non availability			FLD/Trainings/OFT
	F	of single			
6	Farm	implement for			
	implement	various			
		operations			
		 Unawareness 			Training &
7	Kharif crops	about seed			Extension
		treatment			activities
		• Low	10000	Nandurbar &	
		productivity of		Dhadgaon block	/Trainings/OFT
		Bengal gram			
8	Bengal gram	due to pod			
		borer &			
		Nutrient			
		management	2000	November of	FLD /Trainings
	Summer	Pest	3000	Navapur block	FLD/Trainings
9	Summer	Management & Nutrient			
	groundnut	Management			
		Low yield of	1800	Dhadgaon &	Demonstration
		mango	.000	Akkalkuwa block	/Trainings
		Improper			,
4.0		quality and low			
10	Mango	yield of mango			
		Blackening of			
		amchur			
11	Red gram	IPM & INM	9000	Navapur Block	Cluster FLDs
	3 1				/Trainings/OFT
		Available oils		Akkalkuwa tahsil	Training and
12	oil expeller	are blended, Demand for			Demonstation
		Demand for quality oils.			
		Home scale		Akkalkuwa tahsil	FLD/Trainings
		processing,		ANNAINAVVA (AITSII	. LD, Hairinigs
13	Mini Dal mill	More broken,			
	I will bar i iii	Lower quality			
		of dal			
		Time and		Akkalkuwa tahsil	FLD/Trainings
	Grain	labour			
14	cleaner	consuming,			
	Cicariei	Less market			
		price			
		Fertiliser	2500	Navapur tahsil	FLDs/Trainings
15	Rabi Jowar	Management &			
		Pest .			
		management			

16	Soil and water conservation	Low productivity of rainfed crops, Low productivity of kharif crops			Trainings & demonstration
17	Processing and value addition	Less knowledge about post harvest technology and value addition			Trainings & demonstration
18	Chilli	Low productivity of chilli Seedling mortality, Nutrient management & pest, disease management	3000	Nandurbar & shahada tahsil	FLD/Trainings/OFT
19	Bee keeping	Poor pollination Unavailability of honey		Navapur, Akkalkuva block	Training / Demonstrations
20	Sericulture	Unavailability		Navapur, Nandurbar block	Training / Demonstrations
21	Vermi composting	Unavailability of organic fertilizer & poor organic carbon in soil		Navapur, Dhadgaon,Nandurbar block	Training / Demonstrations
22	Watermelon	Low productivity of watermelon due to nutrient & pest managent	1000	Nandurbar & shahada tahsil	FLD/Trainings/OFT
23	Fodder crop	Lower productivity and poor nutritional status			FLD/Trainings/OFT
24	Fodder – Maize	Unavailability of green fodder in summer season			FLD/Trainings/OFT

3.2. Technology Assessment (Kharif 2023, Rabi 2022-23, Summer 2023)

A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Integrated Nutrient	_							3.3 [2.3		
Management	1			1						
Varietal Evaluation	2									
Integrated Pest	1				1					
Management	1				1					
Integrated Crop										
Management										
Integrated Disease					1					
Management					ı					
Small Scale Income										
Generation										
Enterprises										
Weed Management										
Resource										
Conservation										
Technology										
Farm Machineries				2						
Integrated Farming										
System										
Seed / Plant										
production										
Value addition										
Drudgery Reduction										
Storage Technique										
Mushroom										
cultivation										
Total										

A2. Abstract on the number of technologies assessed in respect of livestock enterprises

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds						
Nutrition Management						
Disease of Management						
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating						
enterprises						
TOTAL						

B. Achievements on technologies Assessed

B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	of far	Area in ha (Per trial coveri ng all the Techn ologic al Optio ns)
	n	To assess the Split application of Nitrogen fertilizer schedule of Bt. Cotton.	13	13	3
Management	Rabi Jowar	To assess the effect of Potassium Nitrate (13:00:45) on Yield of <i>Rabi</i> Sorghum	13	13	3
Varietal Evaluation	Millet	Varietal performance of Little millet (Phule Ekadashi) in satpuda ranges of Dhadgaon tahasil.	13	13	3
	I	Varietal performance of Foxtail millet (suryanandi) in satpuda ranges of Dhadgaon tahasil	13	13	3
Integrated Pest		Management of Fall Army Worm	13	13	5
Management		Management of White grub in onion	13	13	5
Integrated Crop Management					
Integrated Disease Management	Okra	Management of leaf curl virus	10	10	2.5
Small Scale Income Generation Enterprises					
Weed Management					
Resource Conservation Technology					
Farm Machineries	Cotto n	Hand push seeder	13	13	5
		Bullock drawn twin blade hoe with fertilizer applicator	13	13	5
Integrated Farming System					
Seed / Plant					
production					
Value addition					

Thematic areas	Crop	Name of the technology assessed	No.	Nu	Area
			of	mb	in ha
			trials	er	(Per
				of	trial
				far	coveri
				me	ng all
				rs	the
					Techn
					ologic
					al
					Optio
					ns)
Drudgery Reduction					
Storage Technique					
Mushroom					
cultivation					
Total					

B. 2. Technologies assessed under Livestock & fishery assessment

Thematic areas	Name of	Name of	No.	No. of
	the	the	of	farmers
	livestock	technology	trials	
	enterprise	assessed		
Evaluation of breeds				
Health Management				
Dairy Management				
Nutrition management				
Disease management				
Feed and fodder management				
Processing & Value addition				
Production and management				
Composting fish culture				
Small scale income generating enterprises				
Fish production		_		
Other				
Total		·		

B.3 Technologies assessed under other enterprises

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Mushroom			
Apiary			
Vermicompost			
Tailoring			
Nutrition Garden			

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Nursery Management			
Production and Management			
Eentrepreneurship development			
Engegy consrvation			
storage techniques			
House hold food security			
organic farming			
mechanization			
Bee keeping			
Seed production			
post-harvest management			
other			

B 4.Technologies assessed under Women empowerment assessment

Name of Enterprises	Name of the technology assessed	No. of trials	No. of farmers
Drudgery Reduction			
Entrepreneurship development			
Health and Nutrition			
value addition			
Kitchen gardening			
nutrition security			_
other	·		

C. 1. Results of Technologies Assessed

Results of On Farm Trial:

Crop production: 1

Crop/ enterpri	Farmin g	Problem definitio	Title of OFT	No. of	Technolo gy	Paramet ers of	Data on the	Results of	Feedback from the	Any refineme	Justificati on for
se	situatio	n	0	trial	Assessed	assessm	paramet	assessm	farmer	nt	refineme
	n			S		ent	er	ent		needed	nt
1	2	3	4	5	6	7	8	9	10	11	12
Little	irrigat	Use of	Varietal	1	Use of	Yield	Yield	Yield is	1.Biofertiliz		
millet	ed	traditio	performa	3	Improv	Tillers	T1:	increase	ers seed		
		nal	nce of		е	per	11.17	(41%)	treatment		
		variety,	Little		variety	plant	T2:		found		
		Low	millet		(Phule	C:B	15.24		effective		
		yield	(Phule		Ekadas	ratio			for good		
			Ekadashi)		hi)		Net		germinatio		
			in				return:		n.		
			satpuda				T1:274		2. Variety		
			ranges of				46		performed		
			Dhadgao				T2:		better for		
			n tahasil.				41512		achieving		
									growth		
							B:C		and yield		
							Ratio:		component		
							T1:		S		
							2.83		compared		
							T2: 3.53		to		
									traditional		
									variety.		
									3.Number		
									of		
									productive		
									tillers/plan		
									t (8.67),		

				panicle	
				length	
				(37.6 cm),	
				number of	
				grains/pani	
				cle (397)	
				and test	
				weight	
				(1.93 g) is	
				better than	
				control	
				plot.	
				4.Yield	
				increase	
				36%	

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	B:C Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	Traditional practice	11.17	Qt/ha	27446	2.83
Technology option 2	MPKV Rahuri	15.24	Qt/ha	45512	3.53
Technology option 3					

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

1	Title of Technology Assessed:	Varietal performance of Little millet (Phule Ekadashi) in satpuda ranges of Dhadgaon tahasil.						
2	Problem Definition : for assessment	Use of traditional vari	ety, Low yield					
3	Details of technologies selected	Use of Improve variety (Phule Ekadashi)						
4	Source of technology	MPKV,Rahuri						
5	Production system and thematic area	Varietal performance, Production management and technology						
6	Performance of the Technology with	Performance indicators	Farmers practice T1	Improved practice T2				
	performance indicators	Yield Q/ha	11.17	15.24				
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	1.Biofertilizers seed treatment found effective for good germination 2. Variety performed better for achieving growth and yield components compared to traditional variety. 3.Number of productive tillers/plant (8.67), panicle length (37.6 cm), number of grains/panicle (397) and test weight (1.93 g) is better than control plot. 4.Yield increase 36%						
8	Final recommendation for micro level situation	Variety performed b components compar		_				
9	Constraints identified and feedback for research and developmental departments	36% Yield increased than traditional variety						
10	Process of farmers participation and their reaction	Training and demonstration organized at block leval						

11. Good Quality Photo in JPG (separate with proper caption)



Varietal Performance of Little millet Variety Phule Ekadashi



Flowerng satge of Little millet Variety
Phule Ekadashi

Crop production : 2

Crop/ enterpri	Farmin g	Problem definitio	Title of OFT	No. of	Technolo gy	Paramet ers of	Data on the	Results of	Feedback from the	Any refineme	Justificati on for
se	situatio	n		trial	Assessed	assessm	paramet	assessm	farmer	nt	refineme
	n			s		ent	er	ent		needed	nt
1	2	3	4	5	6	7	8	9	10	11	12
Foxtail	irrigat	Use of	Varietal	1	Use of	Yield	Yield	Yield is	1.Biofertili		
millet	ed	traditio	performa	3	Improve	Tillers	T1:	increase	zers seed		
		nal	nce of		variety	per	12.55	(32%)	treatment		
		variety,	Foxtail		:Survan	plant	T2:		found		
		Low	millet		adi	C:B	16.57		effective		
		yield	(suryana			ratio			for good		
			ndi) in				Net		germinatio		
			satpuda				return:		n.		
			ranges of				T1:		2. Variety		
			Dhadgao				35300		performed		
			n tahasil.				T2:		better for		
							49780		achieving		
									growth		
							B:C		and yield		
							Ratio:		component		
							T1:		S		
							3.37		compared		
							T2: 4.02		to		
									traditional		
									variety.		
									3.Plant		
									height		
									(112),No		
									of tillers/		
									M square		
									(60.90),		
									Earehead		

				lengh (12.30cm)	
				and test	
				weight (3.15 g) is	
				better than	
				control	
				plot. 4.Yield	
				increaed	
				32%	

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	B:C Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)	Traditional practice	12.55	Qt/ha	35300	3.37
Technology option 2	MPKV Rahuri	16.57	Qt/ha	49780	1.02
Technology option 3					

C. 2. Details of each On Farm Trial for assessment to be furnished in the following format separately as per the following details:

1	Title of Technology Assessed:	Varietal performance satpuda range	of Foxtail millet (sur s of Dhadgaon tahas	•			
2	Problem Definition : for assessment	Use of traditional vari	ety, Low yield				
3	Details of technologies selected	Use of Improve variety : Survanadi					
4	Source of technology	Achatya N G Ranga A	gril University Kurno	ool			
5	Production system and thematic area	Varietal performance, Production management and technology					
6	Performance of the Technology with	Performance indicators	Farmers practice T1	Improved practice T2			
	performance indicators	Yield Q/ha	12.55	16.57			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Net return Rs/ha 35300 49780 1.Biofertilizers seed treatment found effective for good germination .2. Variety performed better for achieving growth and yield components compared to traditional variety. 3.Plant height (112),No of tillers/ M square (60.90), Earehead lengh (12.30cm) and test weight (3.15 g) is better than control plot. 4.Yield increase 32%					
8	Final recommendation for micro level situation	Variety performed b components compar					
9	Constraints identified and feedback for research and developmental departments	32% Yield increased than traditional variety					
10	Process of farmers participation and their reaction	Training and demons	tration organized at	block leval			

11. Good Quality Photo in JPG (separate with proper caption)



Varietal performance of Foxtail millet (suryanandi) in satpuda range



Flowerng satge of Foxtail millet (suryanandi) in satpuda range

Results of On Farm Trial - Crop production: 3

Crop/	Farming	Probl	Title of OFT	No.	Technolog	Parameters of	Data on	Results of	Feedback	Any	Justification
enterprise	situation	em		of	у	assessment	the	assessment	from the	refinemen	for
		defini		trials	Assessed		paramet		farmer	t needed	refinement
		tion					er				
1	2	3	4	5	6	7	8	9	10	11	12
Cotton	Deep	Far	To assess	13	N	1. Soil testing	Yield	Yield is	No of	yes	Fertilizer
	Black	mer	the Split		Shedule	2 No of	T1:	increase	bolls per		efficiency
	Soil with	S	application		(6	Bolls/plant.	14.52	(25.60%)	plant is		is more
	Drip	are	of		splits)	3.C:B ratio	T2:		increase		due to
	irrogated	appl	Nitrogen		1 st wk	4.Yield(qt/ha	18.13				fertigation
		ying	fertilizer		20 %,)			Yield is		technolog
		Nitr	schedule		25		Net		increase		У
		oge	of Bt.		(kg/ha)		return		(30%)		
		n in	Cotton.		4 th wk		:		due to		
		3			16 %,		T1:70		use of		
		split			20		542		fertigati		
		S			(30DAS)		T2:		on		
		.Far			6 th wk		94123		technolo		
		mer			16 %,				gy		
		S			20		B:C				
		are			(45DAS)		Ratio:				
		faci			8 th wk		T1:		Saving		
		ng			16 %,		3.17		of		
		the			20		T2:		fertilizer		
		prob			(60DAS)		3.72		cost		
		lem			10 th						
		of			wk 16						
		redd			%, 20						
		enin			(75DAS)						
		g in			12 wk						
		cott			16 %,						
		on.			20						

	(90DAS)			
	Phospha			
	te (65			
	kg/ha) &			
	Potash			
	(65			
	kg/ha)			
	As per			
	recomm			
	endation			

Contd..

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice)		14.52	qt/ha	70542	3.17
Technology option 2	MPKV Rahuri	18.13	Qt/ha	94123	3.72
Technology option 3					

C2. Details of On Farm Trial for assessment :3

1	Title of Technology Assessed :	·	To assess the Split application of Nitrogen fertilizer schedule of Bt. Cotton.							
2	Problem Definition : for assessment	Farmers are applying Nitrogen in 3 splits .Farmers are facing the problem of reddening in cotton								
3	Details of technologies selected	N Shedule (6splits) 1 st wk 20 %, 25 (kg/ha) 4 th wk 16 %, 20 (30DAS) 6 th wk 16 %, 20 (45DAS) 8 th wk 16 %, 20 (60DAS) 10 th wk 16 %, 20 (75DAS) 12 wk 16 %, 20 (90DAS) Phosphate (65 kg/ha) & Potash (65 kg/ha) As per recommendation.								
4	Source of technology	MPKV,Rahuri								
5	Production system and thematic area	Integrated Nutrient Management								
,	Performance of the Technology with	Performance indicators	Farmers practice T1	Improved Practice T2						
6	performance	Yield Q/ha	18.13							
	indicators	Net return Rs/ha	94123							
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	1.No of bolls per plant is increase 2.Yield is increase(30%) due to use of fustigation technology 3.Saving of fertilizer cost								
8	Final recommendation for micro level situation	6 th Split application of Cotton	Nitrogen fertilize	er schedule of Bt.						
9	Constraints identified and feedback for research and developmental departments	Fertilizer efficiency is more, yield is increase (30%)								
10	Process of farmers participation and their reaction	Farmers meetings, Ti	raining, Method d	emonstration						

11. Good Quality Photo in JPG (separate with proper caption)



Split application of Nitrogen fertilizer schedule in Cotton



Results of On Farm Trial - Crop production: 4

Crop/	Farmin	Problem	Title of OFT	No.	Technolog	Parameters of	Data on	Results	Feedback	Any	Justificat
enterpr	g	definitio		of	у	assessment	the	of	from the	refinem	ion for
ise	situatio	n		trials	Assessed		paramet	assessm	farmer	ent	refineme
	n						er	ent		needed	nt
1	2	3	4	5	6	7	8	9	10	11	12
Rabi	Rainf	Rabi	To assess	13	Soak the	1. Germina	Yield	Yield	1. Soak	-	-
Jowa	ed	sorghu	the effect		seeds in	tion %	T1:	is	the seeds		
r		m is	of		the	2. Plant	11.67	increa	in the		
		importa	Potassiu		solution of	Population	T2:	se	solution of		
		nt	m Nitrate		KMnO4	3. Plant	15.27	(29.7	potassium		
		cereal	(13:00:4		@0.05%	Height at		4%)	nitrate		
		crop	5) on		for 10-12	maturity (cm.)	Net		(0.05%)		
		cultivat	Yield of		hours and	4. Yield	return		for good		
		ed in	Rabi		dry under	(qt/ha)	:		germinatio		
		Nandur	Sorghum		shade.	5. C:B	T1:23		n.2. Foliar		
		bar			Then treat	Ratio	359		spraying		
		district			the seeds		T2:		of 2%		
		having			with		28969		potassium		
		17500			Azotobact				nitrate at		
		ha area			or and		B: C		55 DAS for		
		are			PSB		Ratio:		effetive		
		sown.			(each25g		T1:		vegetative		
		The			m/kg of		2.58		growth as		
		product			seeds)		T2: 2.99		weel as		
		ivity of			and RDF				plant		
		Rabi			i.e				height		
		Sorghu			80:40:40				(118 cm)		
		m is			NPK kg/ha				3.1000		
		low			+ 2 %				seed		
		(Dist			foliar				wt.(23.10		
		avg.88			spray				gm) 4.		
		6 kg			KMnO4				Yield		

	/ha).		at 55		increase	
			DAS		31%	1

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio	
13	14	15	16	17	18	
Technology option 1 (Farmer's practice)	Farmers not pracice	11.67	q/ha	23359		
Technology option 2	MPKV Rahuri	15.27	q/ha	28969		
Technology option 3						

C2. Details of On Farm Trial for assessment: 2

1	Title of Technology Assessed :	To assess the effect of Potassium Nitrate (13:00:45) on Yield of <i>Rabi</i> Sorghum				
2	Problem Definition : for assessment	Rabi sorghum is important cereal crop cultivated in Nandurbar district having 17500 ha area are sown. The productivity of <i>Rabi</i> Sorghum is low (Dist avg. 886 kg /ha).				
3	Details of technologies selected	Soak the seeds in the solution of KMnO4 @0.05% for 10-12 hours and dry under shade. Then treat the seeds with Azotobactor and PSB (each25gm/kg of seeds and RDF i.e 80:40:40 NPK kg/ha + 2 % foliar spray KMnO4 at 55 DAS				
4	Source of technology	MPKV,Rahuri				
5	Production system and thematic area	Integrated Nut	rient Management			
	Performance of the Technology with	Performance indicators	Farmers practice T1	Improved practice T2		
6	performance	Yield Q/ha	11.67	15.27		
	indicators	Net return Rs/ha	23359	28969		
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	1. Soak the seeds in the solution of potassium nitrate (0.05%) for good germination. 2. Foliar spraying of 2% potassium nitrate at 55 DAS for effetive vegetative growth as weel as plant height (118 cm) 3.1000 seed wt.(23.10gm) 4. Yield increase 31%				
8	Final recommendation for micro level situation	Soak the seeds in the solution of KMnO4 @0.05% for 10-12 hours and dry under shade. Then treat the seeds with Azotobactor and PSB (each25gm/kg of seeds) and RDF i.e 80:40:40 NPK kg/ha + 2 % foliar spray KMnO4 at 55 DAS				
9	Constraints identified and feedback for research and developmental departments	solution of KMnO4 @0.05% for 10-12 hours and dry under shade. Then treat the seeds with Azotobactor and PSB (each25gm/kg of seeds) and RDF i.e 80:40:40 NPK kg/ha overall yield is increase 28.60 %				
10	Process of farmers participation and their reaction	Farmers meetings, T	raining, Method der	monstration		

11. Good Quality Photo in JPG (separate with proper caption)



Effect of Potassium Nitrate (13:00:45) on of *Rabi*Sorghum Variety Phule Vasudha

Results of On Farm Trial -5

Crop/	Farming	Problem	Title of OFT	No. of	Technology	Paramete	Data	Results of	Feedback	Any	Justificati
enterpr	situation	definition		trials	Assessed	rs of	on the	assessme	from the	refinem	on for
ise						assessme	parame	nt	farmer	ent	refineme
						nt	ter			needed	nt
1	2	3	4	5	6	7	8	9	10	11	12
Maiz	Irrigat	Maize is	Managem	13	When the	FAW	6.95	Low	Spraying		
е	ed,	the	ent of fall		incidence of	infesta	%	inciden	of		
	mediu	major	army		FAW noticed	tion-		ce of	Metarhizi		
	m to	cereal	worm in				3.95	FAW	um		
	heavy	crop	maize		Two Spraying		%	was	anisopliae		
	soil.	grown			of Spinetoram			observ	was		
		in all			11.7 % SC@5		2.90	ed in	found		
		tahsils			ml		%	T3 as	effective		
		of						compar	and		
		Nandur			OR			ed to	economic		
		bar			Chlorantranipr			T2 and	al for the		
		district.			ol 18.5 SC @			farmer	control of		
		Inciden			4 ml Pre 10			S	Fall Army		
		ce of			lit.			practic	Worm.		
		Fall						e.			
		army			Water at 15						
		worm			days interval						
		was									
		found in									
		kharif &			T3						
		rabi			Two Spraying						
		maize,			of						
		affectin			Metarhizium						
		g the			(Nomuraea)						
		yield of			rileyi (1x 10 ⁸						

maize.	CFU/g)1.15W	
	P OR	
	Metarhizium	
	anisopliae 1x	
	10 ⁸ CFU/g)	
	1.15WP @ 50	
	gm per 10 lit	
	of water	
	at 15 days	
	interval.	

Contd..

Technology Assessed	Source of Technology	Production	unit (kg/ha, t/ha, lit/animal, nuts/palm,	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	nuts/palm/year) 16	17	18
Spraying of pesticides (Profenophos 50 EC, Trizophos 40 EC, Dichlorovos 76 EC	14	35.31	Q/ha	37673.5	2.36
Technology option 2 : When the incidence of FAW noticed Two Spraying of Spinetoram 11.7 % SC@5 ml OR Chlorantraniprol 18.5 SC @ 4	CIB Faridabad	39.23	Q/ha	45475.5	2.68

ml Pre 10 lit. Water at 15 days interval					
Technology option 3: . Two Spraying of Metarhizium (Nomuraea) rileyi (1x 10 ⁸ CFU/g)1.15WP OR Metarhizium anisopliae 1x 10 ⁸ CFU/g) 1.15WP @ 50 gm per 10 lit of water at 15 days interval.	MPKV Rahuri	42.69	Q/ha	49926.5	3.03

1	Title of Technology Assessed :	Management of f	Management of fall army worm in maize.				
2	Problem Definition: for assessment	Maize is the major cereal crop grown in all tahsils of Nandurbar district. Incidence of Fall army worm was found in kharif & rabi maize, affecting the yield of maize.					
3	Details of technologies selected	T ₂ – Improved Technology When the incidence of FAW noticed Two Spraying of Spinetoram 11.7 % SC@5 ml OR Chlorantraniprol 18.5 SC @ 4 ml Pre 10 lit. Water at 15 days interval T3 Improved Technology When the incidence of FAW noticed Two Spraying of Metarhizium (Nomuraea) rileyi (1x 10 ⁸ CFU/g)1.15WP OR Metarhizium anisopliae 1x 10 ⁸ CFU/g) 1.15WP @ 50 gm per 10 lit of water at 15 days interval.					
4	Source of technology	MPKV Rahuri	MPKV Rahuri				
5	Production system and thematic area	Integrated Pes	t Management				
	Performance of the Technology	Performance indicators	Farmers practice T1	Improved practice T2	Improved practice T3		
6	with	Yield Q/ha	35.31	35.31	35.31		
	performance	FAW infestation	6.95	3.95	2.90		
	indicators	Plant Protection Cost	4100	3500	2000		
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	. 3 0	arhizium anisoplia ne control of Fall <i>A</i>	ne was found effec Army Worm.	tive and		
8	Final recommendation for micro level situation	Cost effective ted	hnology for the n	nanagement of Fal	I army worm.		
9	Constraints identified and feedback for	-					

	research and developmental departments	
10	Process of farmers participation and their reaction	Training programme Farmers meeting Method demonstration

Results of On Farm Trial -6

Crop/ enterp rise	Farmin g situati on	Problem definitio n	Title of OFT	No. of trial s	Technology Assessed	Paramete rs of assessme nt	Data on the parame ter	Results of assess ment	Feedback from the farmer	Any refine ment needed	Justific ation for refinem ent
1	2	3	4	5	6	7	8	9	10	11	12
Maize	Irrigate	Onion is the major kharif crop grown in eastern part of Nandurba r tahsil. From last 3-4 years infestatio n of white grub was increased in onion growing areas that reduce the yield of onion.	Managemen t of white grub in onion.	13	Farmers Practice Application of chemicals like phorate @10kg/ha, chlorpyrifos@25-30 ml/ lit. cypermethrin 10 ml/lit water etc. interval. T2: Soil application of Metarhizium anisopliae@4 Kg/Ha T3: Castor fermented trap: Place the mud pot with the capacity of 5 litre each where	White grub inciddence 1. Plant protection cost 2.Yield(Q/h)	1.05/m 0.3/m 0.12/m Rs 13500 Rs 11950 Rs 10500 118.15 Q 124.62 Q 129.65 Q	Low incidenc e of white grub was observe d in T3 as compare d to T2 and farmers practice. Yield increase was observe d in T3 technolo gy over T2 & farmers practice.	Castor fermented traps found effective for attracting white grub beetles.		= .

	placed in 1 ace field. Add 2 lit.of			
	fermented			
	Solution to each			
	pot and fill there			
	maining portion			
	with water.			

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Technology option 1 (Farmer's practice) Spraying of pesticides (profenophos 50 EC, Trizophos 40 EC, Dichlorovos 76 EC)		118.15	qt/ha	118632.5	2.53
Technology option 2 When the incidence of FAW noticed Two Spraying of Spinetoram 11.7 % SC@5 ml OR Chlorantraniprol 18.5 SC @ 4 ml Pre 10 lit Water at 15 days interval	MPKV Rahuri	124.62	Qt/ha	130061	3.06

Technology option 3					
Two Spraying of Metarhizium (Nomuraea) rileyi (1x 10 ⁸ CFU/g)1.15WP OR Metarhizium anisopliae 1x 10 ⁸ CFU/g) 1.15WP @ 50 gm per 10 lit of water	=	129.65	Qt/ha-	139267.5	3.25
at 15 days					
interval.					

C2. Details of On Farm Trial for assessment: 2

1. Title of Technology Assessed	Management of white grub in onion.
2. Problem Definition	Onion is the major kharif crop grown in eastern part of Nandurbar tahsil. From last 3-4 years infestation of white grub was increased in onion growing areas that reduce the yield of onion.
3. Details of	T ₁ - Farmers practice:
technologies selected	Application of chemicals like phorate
for assessment	@10kg/ha, chlorpyrifos@ 25-30 ml/
	lit. cypermethrin 10 ml/lit water etc.
	T ₂ – Technology Assessed:
	2 33
	Soil application of <i>Metarhizium</i>
	anisopliae @ 4 Kg/Ha
	T3 Improved Technology
	Castor fermented trap: Place the mud
	pot with the capacity of 5 litre
	each where placed in 1 ace field. Add 2
	lit.of fermented
	Solution to each pot and fill there
	maining portion with water.
4. Source of	MPKV, Rahuri
technology	
5. Production	: Integrated Pest Management
system and thematic	
area	
6. Performance of the Technology with	T1. White grub infestation-1.05 %, Plant protection cost- Rs 13500
performance indicators	T2- White grub infestation- 0.3 %, Plant protection cost-Rs 11950
	T3- White grub infestation- 0.12 %,Plant protection cost-Rs 10500
7. Feedback,	Castor fermented traps found effective for attracting white
matrix scoring of	grub beetles
various technology	
parameters done	
through farmer's	
participation / other	
scoring techniques	
8. Final	==
recommendation for	
micro level situation	
9. Constraints	
identified and feedback	
for research	
10. Process of	- Training, Farmers meeting, Field visits
farmers participation	
and their reaction	

Results of On Farm Trial - 7

Crop/	Farmin	Problem	Title of	No.	Technology	Parameters	Data on	Results	Feedback	Any	Justificat
enterp	g	definitio	OFT	of	Assessed	of	the	of	from the	refine	ion for
rise	situati	n		trial		assessment	parame	assess	farmer	ment	refineme
	on			S			ter	ment		needed	nt
1	2	3	4	5	6	7	8	9	10	11	12
Okra	Irrigate	Okra is	Managemen	13	Farmers	1Yellow	-8.75 %	Low	Phule		==.
	d	the major	t of yellow		Practice	mosaic	-3.05 %	incidenc	vimukta		
		vegetable	vein mosaic			infestation-		e of	variety found		
		crop	in Okra.		- Sowing of			yellow	resistant to		
		grown in			Arka Anamika			mosaicw	yellow		
		summer			/ Private Okra		Rs	as	mosaic		
		season.				2. Plant	14050	observe	disease.		
		Heavy			Varieties	protection	Rs	d in T2			
		infection				cost	12250	as			
		of yellow			T2 :			compare			
		vein			Introduction of			d to			
		mosaic			Phule Vimukta		93.5	farmers			
		disease			okra variety	3.Yield(Q/h)	108.55	practice.			
		was						Yield			
		observed						increase			
		on okra in						was			
		summer						observe			
		season.Fa						d in T2			
		rmers						technolo			
		using						gy over			
		heavy						farmers			
		chemicals						practice.			
		for the									
		control of									
		yellow									
		vein									
		mosaic.									

Technology Assessed	Source of Technology	Production	Please give the unit (kg/ha, t/ha, lit/animal, nuts/palm, nuts/palm/year)	Net Return (Profit) in Rs. / unit	BC Ratio
13	14	15	16	17	18
Farmers Practice - Sowing of Arka Anamika / Private Okra Varieties		93.5	qt/ha	90625	2.67
Technology option 2 Introduction of Phule Vimukta okra variety	MPKV Rahuri	108.5	Qt/ha	116175	3.23

C2. Details of On Farm Trial for assessment: 2

11. Title of Technology Assessed	Management of yellow vein mosaic in Okra.
12. Problem Definition	Okra is the major vegetable crop grown in summer season. Heavy infection of yellow vein mosaic disease was observed on okra in summer season. Farmers using heavy chemicals for the control of yellow vein mosaic.
13. Details of technologies selected for assessment	T ₁ - Farmers practice: - Sowing of Arka Anamika / Private Okra Varieties T ₂ – improved Technology - Introduction of Phule Vimukta okra variety
14. Source of technology	MPKV, Rahuri
15. Production system and thematic area	: Integrated Pest Management
16. Performance of the Technology with performance indicators	T1. Yellow mosaic infestation- 8.75 %, Plant protection cost-Rs 14050 T2- White grub infestation-3.05 %, Plant protection cost-Rs 12250
17. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Phule vimukta variety found resistant to yellow mosaic disease
18. Final recommendation for micro level situation	==
19. Constraints identified and feedback for research	
20. Process of farmers participation and their reaction	- Training,Farmers meeting,Field visits

Results of On Farm Trial (Bullock drawn Twin blade hoe with fertilizer applicator)

Crop/ enterpris	Farmin g	Problem definition	Title of OFT	No. of	Technolo gy	Paramete rs of	Data on the	Results of	Feedback from the	Any refineme	Justificati on for
e e	situati			trial	Assessed	assessme	paramet	assessme	farmer	nt	refinemen
	on			s		nt	er	nt		needed	t
1	2	3	4	5	6	7	8	9	10	11	12
Farm	Rainf	Increased	Bullock	1	Bullock	Field		44 %	The new		
implem	ed	cost of	drawn	3	drawn	capacity	0.125	saving in	implem		
ent		intercultur	Twin		Twin	, ha/hr		cost of	ent is		
		ing and	blade		blade		1400	operation.	very		
		fertilizer	hoe		hoe	Cost of		Fertilizer is	useful		
		application	with		with	operatio		applied in	for		
			fertilize		fertilizer	n		double	applying		
			r		applicat			band	fertilizer		
			applicat		or			method	along		
			or						with		
									hoeing.		

C. 2. Details of each On Farm Trial for assessment (Bullock drawn Twin blade hoe with fertilizer applicator)

1	Title of Technology Assessed:	Bullock drawn Tw	in blade hoe with	fertilizer applicator				
2	Problem Definition : for assessment	also above the so fertilizers should be covered with soil. farmers have to cathe weeds from the	oil, which leads lose applied near the parties applied near the parties applied to the area closer to the control of the area closer to the control of the c	fertilizers, even Urea is of fertilizers. The plants and should be ethod of hoeing, the eding for removal of the plants. These two cultivation of cotton.				
3	Details of technologies selected	operations i.e, drill one or both sides closer to the plants. Thus there is savi application.	ing of fertilizers in of the row (row pla	rti drill carries two continuous bands on acement) and hoeing reeding and fertilizer				
4	Source of technology	MPKV,Rahuri						
5	Production system and thematic area	Farm implement and machinery						
		Performance indicators	Improved practice	Farmers practice				
6	Performance of the Technology with	Field capacity, ha /hr, 0.125 0.0625						
	performance indicators	Total cost of operation, Rs/ha	1400	2500				
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring Techniques							
8	Final recommendation for micro level situation	The new implement along with hoeing	is very useful fertili:	zer for applying				
9	Constraints identified and feedback for research and developmental departments	There are some efforts for cleaning the blades of the hoe.						
10	Process of farmers participation and their reaction	of the implement. Method demonstrati The farmers liked th	The farmers were trained for the importance and functioning of the implement. Method demonstration was also carried out. The farmers liked the implement useful for weeding and fertilizer application in one operation.					

C. 2. Details of each On Farm Trial for assessment (To asses Insulated fish bags for superior quality and price)

Crop/ enterpri se	Farmin g situati on	Problem definitio n	Title of OFT	No. of trial s	Technolog y Assessed	Paramet ers of assessm ent	Data on the parame ter	Results of assessm ent	Feedback from the farmer	Any refinem ent needed	Justificat ion for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Fishery		Quality of fish (shelf life), unhygie nic conditio n	To asses Insulat ed fish bags for superi or quality and price	1 3	T1 Farmers practice- Regular practice using Terminal boxes - T2- Technol ogy assessm ent: Insulated fish bags	1)Shelf life of fish/hr 2)Sensori al quality parameter s (gills colour and smell) 3)Market Rate			 Insulate d bag design should be horizont al. Bag capacity minimu m 20 kg. 		

Contd..

1	Title of Technology Assessed:	To asses Insulated fish price	bags for superior q	uality and					
2	Problem Definition : for assessment	Quality of fish (shelf life), unhygienic condi	ition					
3	Details of technologies selected	Insulated fish bag							
4	Source of technology	ICAR-CIFT MUMBAI							
5	Production system and thematic area	Storage loss minimization							
		Performance indicators	Improved method	Farmers method					
6	Performance of the Technology with	1)Shelf life of fish (/hr)	10 to 12 hr	4 to 5					
	performance indicators	2)Sensorial quality parameters(gills colour and smell)	No change in colour and also smell	Oder smell and colour changed					
		3)Market rate (kg)	110 Rs /kg	70 to 60 Rs /kg					
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Insulated bag design Bag capacity minimul		al .					
8	Final recommendation for micro level situation								
9	Constraints identified and feedback for research and developmental departments	Less awareness, illiteracy							
10	Process of farmers participation and their reaction	Training, method demor	nstration						

C2. Details of On Farm Trial for assessment : 2(Malnourishment of infants, toddler, adolescent girls and women in tribal area due to lack of iron, calcium, protein rich food**)**

Crop/ enterpris e	Farming situation	Problem definition	Title of OFT	No. of trial s	Technology Assessed	Parameters of assessment	Data on the paramete r	Results of assessment	Feedback from the farmer	Any refinem ent needed	Justifi cation for refine ment
1	2	3	4	5	6	7	8	9	10	11	12
Family	Rainfed	Malnourishme nt of infants, toddler, adolescent girls and women in tribal area due to lack of iron, calcium, protein rich food		13	Farmers practice Regular diet Technology Assessed- Bio fortified Pearl millet (Dhanshakti)	1) Weight kg-Initial wt(kg) Final Wt (kg) Initial wt(kg) Final Wt (kg) 2.Hemoglobe n percentage Before HB level After HB level	45.054 45.563 43.025 44.125	Weight of women had increasing 2.53% and Hemoglobi n level had increased 1.5% compared to other women	New verity of bio fortified pearl millet to increasin g the weight and increasin g he hemoglob in		12

1	Title of Technology Assessed:	To study the efficie	ncy of Iron rich fo	od for family
2	Problem Definition : for assessment	Malnutrition and defi	ciency of iron	
3	Details of technologies selected	Bio fortified Pearl mill	et (Dhanshakti)	
4	Source of technology	MPKV,Rahuri		
5	Production system and thematic area	Women and child care	9	
	Performance of the Technology with	Performance indicators	Improved practice	Farmers practice
6	performance	Initial weight, kg	43.025	45.054
	indicators	Final weight, kg	44.125	45.563
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	New verity of bio forti weight and increasing	•	ncreasing the
8	Final recommendation for micro level situation	Weight of women had level had increased 1.	•	•
9	Constraints identified and feedback for research and developmental departments	Less awareness , illite	eracy and low income	e of family
10	Process of farmers participation and their reaction	Farmers meeting, trai	ining	

3.3. FRONTLINE DEMONSTRATION

A. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2023 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	S	ntal of ogy	
1	Bengal gram	Varietal evaluation	Improved Variety	Training, Farmer meeting, Demonstration, Field day	20	500	390
2	Rabi Jowar	Crop management	Five point method technology	Training, Farmer meeting ,Demonstration, Field day	18	320	157
3	Cotton	Integrated pest management	IPM	Training,FLD,Field day,demostration,Radio talk	35	650	450
4	Papaya	IPM	Control of mealy Bug by using bio agent	Training, Farmer meeting, Demonstration.	20	250	280
5	Brinjal	IPM	Management of shoot & fruit borer	Training, Farmer meeting ,Demonstration, Field day	80	125	130
7	Chilli	IDM	Management of Leaf curl virus	Training, Farmer meeting ,Demonstration, Field day	07	80	80

B. Details of FLDs implemented during 2023 (Kharif 2023, Rabi 2022-23, Summer 2023) (Information is to be furnished in the following three tables for each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Cereals

SI. No.	Crop	Thematic area	Technol ogy Demon	ogy and year		Area (ha) No. of farmers/ demonstration					
			Strateu		Proposed	Actual	SC/ST	Others	Total		
1	Rabi Jowar	Integrated farming	Five point metho d of rabi sorgh um	Rabi 2022	KVK	5.00	5.00		13	13	
2	Rabi Jowar	Integrated pest management	Control of shoot fly	rabi-2022	KVK	5.00	5.00	13	00	13	

Pulses

SI. No	Crop	Thematic area	Technology Demonstrated	Seaso n and	Source of funds	Area (ha)	No. of farmers/ demonstration			Reasons for
				year		Proposed	Actual	SC/ST	Others	Total	shortfall in achieveme nt
1	Beng al gram	Varietal evaluation	High yielding variety	Rabi - 202 2	5	5	0	13	0	13	Bengal gram
2											

Horticultural crops

SI. No	Crop	Thematic area	Technology Demonstrated	Seaso n and	Source of funds	Area (ha)		of farme nonstrat		Reason s for
				year		Proposed	Actual	SC/ST	Others	Total	shortfa
											II in
											achieve
											ment
1	Brinjal	Integrated pest	IPM	Summ	KVK	5.00	5.00	15	00	15	
		management		er-							
				2023							
2	Chilli	IDM	Management of	Kharif	KVK	2.6	2.6	02	11	13	
			leaf curl in chilli	2023							

Cotton and commercial crops

SI.	Crop	Thematic area	Technology	Seaso	Source	Area (ha)	No.	of farme	rs/	Reasons
No.			Demonstrated	n and	of funds			demonstration			for
				year		Proposed	Actual	SC/ST	Others	Total	shortfall
											in
											achieve
											ment
1	cotton	Integrated pest	IPM	Kharif	KVK	8.00	8.00	10	05	15	
		management		-2022							

Details of farming situation

Crop	Season	Farming	Soil type		Status of s	oil	Previous crop	Sowing	Harvest	Seasonal	No. of
		situation		N	Р	K		date	date	rainfall	rainy
		(RF/								(mm)	days
		Irrigated)									1
Rabi	Rabi 2022	Rain fed	Medium	L	М	Н	Soybean	4 st week	4 th		İ
Jowar							Fellow	October	week		İ
							G.Gram,	2023	February		1

							Black gram		2023	
Rabi	Rabi	Rain fed	Medium	L	М	Н	Soybean	4 st week	4 th	
Jowar							Fellow	sep & 1st		
							G.Gram,	week	& 1 st	
							Black gram	October	week	
									march	
									23	

Pulses

Crop	Season	Farming	Soil type		Status of s	oil	Previous	Sowing	Harvest	Seasonal	No. of rainy
		situation (RF/Irrig ated)		N	Р	К	crop	date	date	rainfall (mm)	days
Bengal	Rabi-2022	Irrigated	Shallow	Low	Medium	High	Green	Nov.2022	Feb 2023	640	38
gram			to				gram,Black				
			Medium				gram				

Horticultural crops

Crop	Season	Farming	Soil type		Status of s	oil	Previous crop	Sowing	Harvest	Seasonal	No. of
		situation (RF/		N	Р	K		date	date	rainfall (mm)	rainy days
		Irrigated)									
Brinjal	Summer 23	Irrigated	Medium	L	M	Н	Paddy, Maize,	4 th week	May to		
							Jowar, Soybean	Jan &	July 2023		
								1 st ,2 nd			
								week			
								Feb.2023			
Chilli	Kharif 2023	Irrigated	Medium	L	M	Н	Bengal gram,	July- 1 st &	Nov, Dec		
							Cotton, Wheat	2 nd week	2023		
									Jan 2024		

Cotton and commercial crops

Crop	Season	Farming	Soil type		Status of s	oil	Previous	Sowing	Harvest	Seasonal	No. of
		situation (RF/ Irrigated)		N	Р	К	crop	date	date	rainfall (mm)	rainy days
Cotton	Kharif 23	Rain fed	Medium	L	M	Н	Cotton	4 th	4 th week		
(IPM)							Soybean	week	dec. &		
							Maize	June & 1 st	Jan 1 st		
							Jower	week july	week		
							B.Gram				

Technical Feedback on the demonstrated technologies Cereals crops

	S .	No		Feed Back
Rabi	jowar	(Five	point	1.five point method use of rabi sorghum to gate in addition
meth	od)			yield of 3.90 qt
				2.plant height is more ie demo plot 145cm and check plot
				121 cm

Pulses

S. No	Feed Back
1 Bengal gram	1. Phule vikram variety good for mechanical harvesting
	2. More no of pods per plant in demo plot 123 & check plot 94

Farmers' reactions on specific technologies Cereals

S. No	Feed Back
1 Rabi jowar (Five point	1.1000 grain wt in demp plot was 21.82 gm and check plot is
method)	16.17 gm
	2. Yield increase 30.76 percent
Rabi jowar (Control of	Simple fishmeal traps needs to be developed.
shoot fly)	

Pulses

Sr. No	Feed Back
1 Bengal gram	1.100 grain wt in demp plot was 31.74 gm and check plot is
	23.22 gm
	2. Yield increase 39.75 percent

Horticultural crops

S. No	Feed Back
21.Brinjal (IPM)	
2.Chlilli (management of	In potrays technology, dipping of seedling was not possible.
leaf curl)	

Cotton and commercial crops

S. No	Feed Back
1.cotton (IPM)	Grey mildew was observed on Bt cotton

Farmers' reactions on specific technologies Cereals

S. No	Feed Back
1 Rabi jowar (Five point	1.five point method use of rabi sorghum to gate in addition
method)	yield of 3.85 qt
	2.plant height is more ie demo plot 141cm and check plot

	122 cm
	3.1000 grain wt in demo plot was 21.64 gm and check plot
	is 16.29 gm
	4. Yield increase 37 percent
Rabi jowar (Control of	• Seed treatment of thimethoxam found effective for the
shoot fly)	control of shoot fly.

Pulses

Sr. No	Feed Back
1 Bengal gram	Phule vikram variety good for mechanical harvesting
	2. More no of pods per plant in demo plot 112 & check plot 87
	3.100 grain wt in demo plot was 31 gm and check plot is 23
	gm

Horticultural crops

S. No			Feed Back
1.Brinjal(IPM)			IPM practices reduce the plant protection cost.
			Wota T traps found effective for fruit flies collection.
2.Chilli(control	of	leaf	Soil application of neem powder helps to control soil borne
curl virus)			diseases viz. Wilt, root rot as well as sucking pests.
			Low incidence of leaf curl was observed in recommended
			practice as compared to farmers practice.

Cotton and commercial crops

S. No	Feed Back
1 Cotton(IPM)	IPM Package helps to reduce plant protection cost.
	Heavy attack of pink bollworm was observed in the month of
	December.
	Para wilt was observed due to uneven rainfall

Extension and Training activities under FLD

SI.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
	Bengal gram	01	05.01.2022	42	
2	Farmers Training				
	Bengal gram	03	09.02.2022	76	
	Rabi Jowar	02	20.10.2022	40	
3	Media coverage				
4	Training for extension functionaries	01	19.04.2022	30	

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Area	technolog y demonstra ted	y demonstra	y demonstra	_	No. of Farme rs	Are a (ha	1				% Increa se in	rea demonstration				Economics of check (Rs./ha)				
)	Hig h	Dem Lo w		Che ck	yield	Gro ss Cost	Gros s Retu rn	Net Retu rn	BCR (R/ C)	Gro ss Cost	Gros s Retu rn	Net Retu rn				
Ground nut																					
Sesamu m																					
Mustard																					
Safflow er																					
Linseed																					
Sunflow er																					

Soybea	Integrated	ICM	Phule	25	10	24.3	18.1	21.86	16.1	35.61	243	1235	9920	5.08	227	9107	6832	4.00
n	Crop		Sanga			3	2		2		00	09	9		50	8	8	
	Mismanage		m															
	ment																	
Castor																		

Frontline demonstration on pulse crops

Crop	Thematic Area	technolog y demonstra	Varie ty	No. of Farme rs			Yield	l (q/ha)		% Increa se in		Econor lemons (Rs.,			Economics of check (Rs./ha)					
		ted)	Hig h	Dem Lo w	Avera ge	Che ck	yield	Gro ss Cost	Gros s Retu rn	Net Retu rn	BCR (R/ C)	Gro ss Cost	Gros s Retu rn	Net Retu rn	BCR (R/ C)		
Pigeonp ea	Integrated Crop Mismanage ment	ICM	BDN 711	25	10	21.4	13.2	18.57	13.3	39.41	213 00	1299 90	1086 90	6.10	194 50	9324 0	7379 0	4.79		
Blackgra m																				
Greengr am																				

Chickpe a	Varietal evaluation	High Yielding Variety	Phule Vikra m	13	5	16.1 1	13.2 7	21.27	15.2 2	39.75	215 50	1212 39	9968 9	5.62	194 00	8625 4	6735 4	4.44
Fieldpea																		
Lentil																		
Horsegr																		
am																		
Cowpea																		

FLD on Other crops

Categor	Thema	Name	No.	Ar		Yield	(q/ha)	%	Otl	ner		Econor	nics of		Economics of check				
y &	tic	of the	of	ea					Cha	Para	amet		demons	stration		(Rs./ha)				
Crop	Area	techno	Far	(h					nge	e	rs		(Rs.	/ha)						
		logy	mer	a)		Dem	10	Che	in	De	Ch	Gro	Gros	Net	ВС	Gro	Gros	Net	ВС	
			s		Hi	Lo	Aver	ck	Yiel	mo	eck	ss	s	Retu	R	ss	s	Retu	R	
					gh	w	age		d			Cos	Retu	rn	(R	Cos	Retu	rn	(R	
												t	rn		/C)	t	rn		/C)	
Cereals																				
Paddy																				

ı	1									
Waterlo										
gged										
Situatio										
n										
••										
Coarse										
Rice										
Scented										
Rice										
Wheat										
Wheat										
Timely										
sown										
\\/\/\ +										
Wheat										
Late										
Sown										
Mandua										
Mariada										
Barley										
		1		<u> </u>]		

Maize																		
Amaran																		
th																		
Millets																		
Rabi Jowar	Resour ce Conser vation Technol ogies	Five point method of Rabi Sorghu m under rainfed conditio n of Navapu r tahsil	13	05	15. 37	12. 33	16.5 8	12. 68	30.7		163 50	4476 6	2841 6	2.7	147 50	3423 6	1948 6	2.3
Rabi Jowar	IPM	Control of shoot fly	13	5	16. 85	14	15.9 1	12. 82	24.1 0		236 50	6045 8	3680 8	2.5 6	228 00	4871 6	2591 6	2.1 4
Bajra																		
•																		
Barnyar d millet																		

Finger millet									
Vegetab									
les									
Bottlego urd									
Bittergo									
urd									
Cowpea									
Sponge gourd									
Petha									
Petna									
Tomato									
Frenchb									
ean									
Capsicu									

m																		
Chilli																		
IDM	IDM	Manage ment of of leaf curl virus	13	2. 6	16 1	13 8	150. 76	127 .08	18.6 3		121 000	3919 76	2709 766	3.2	129 100	3304 08	2013 08	2.5 6
Brinjal																		
IPM	IPM	IPM in Brinjal	13	5	20 1	16 7	185. 27	154 .53	19.8 9		790 50	2315 87.5	1525 37.5	2.9	825 00	1931 62.5	1106 62.5	2.2 9
Vegetab le pea																		
Softgou rd																		
Okra																		
Colocas ia (Arvi)																		
Broccoli																		
Cucumb																		

		1				1		1	1	
er										
Onion										
Coriend										
er										
Lettuce										
Cabbag										
e										
Cauliflo										
wer										
Wei										
Flooboo										
Elephan t fruit										
tiruit										
A										
Any										
other (PI										
specify)										
_										
Flower										
crops										
Marigol										

	1	ı	ı		I			I	ı					ı	1
d															
Bela															
Turkanaa															
Tuberos															
е															
Gladiolu															
s															
Any															
other (Pl.															
specify)															
Specify)															
Fruit															
crops															
Mango															
Strawbe															
rry															
Guava															
Guava															
_															
Banana															
					l		1	l		1	Ì	l	l		1

Papaya									
Muskme									
Ion									
Waterme									
Ion									
Any other (Pl.									
specify)									
зреспу)									
Spices									
&									
condime									
nts									
Ginger									
Garlic									
Turmeri	 <u></u>								
С									
Any									
other (PI.									
specify)									

Commer cial Crops																		
Sugarca ne																		
Potato																		
Cotton																		
IPM	IPM	IPM in cotton	15	8	15. 75	12. 85	14.2 2	11. 76	20.9		396 50	1002 51	6060 1	2.5	405 00	8290 8	4240 8	2.0 55
Any other (PI. specify)																		
Medicin al & aromati c plants																		
Menthol ment																		
Kalmeg h																		
Ashwag andha																		
																		<u> </u>

Any other (Pl. specify)										
оросу)										
Fodder Crops										
Sorghu m (F)										
Cowpea (F)										
Maize (F)										
Lucern										
Bersee m										
										-
Oat (F)										
Napier										

Grasses									

Frontline Demonstration on Nutri cereals

Cro	Themat	Technology	Variet	No. of	Are		Yiel	d (q/ha)		%		Econor	mics of		Ecc	nomics	of ch	eck
р	ic Area	demonstrat	У	Farme	а					Increa	demo	nstrati	on (Rs.	/ha)		(Rs.,	/ha)	
		ed		rs	(ha		Der	no	Chec	se in	Gros	Gross	Net	BCR	Gros	Gross	Net	BCR
)	Hig	Lo	Averag	k	yield	s	Retur	Retur	(R/C	s	Retur	Retur	(R/C
						h	w	е			Cost	n	n)	Cost	n	n)

FLD on Livestock

Category	Themati	Name of the	No. of	No.of	Ма	jor	%	Ot	her		Econoi	mics of	7	Eco	nomic	s of ch	eck
	c area	technology	Farme	Units	parar	meter	change	parar	neter	den	nonstra	ation (I	Rs.)		(R	s.)	
		demonstrat	r	(Animal	•	S	in major										
		ed		/	Dem	Chec	paramet	Dem	Chec	Gros	Gross	Net	BCR	Gros	Gross	Net	BCR
				Poultry	О	k	er	О	k	S	Retur	Retur	(R/C	s	Retur	Retur	(R/C
				/ Birds,						Cost	n	n)	Cost	n	n)
				etc)													
Cattle																	
Buffalo																	
Buffalo																	
Calf																	

Dairy									
Poultry									
Sheep & Goat									
Goat									
Vaccinatio									
n									
						·			

FLD on Fisheries

Catego ry	Themat ic area	Name of the	No. of	No. of	Major pa	rameters	% chang	Oth paran			Econor nonstra			Eco		s of ches.)	∍ck
		technolog	Farm	unit	Demons	Check	e in	Demo	Chec	Gros	Gross	Net	BCR	Gros	Gros	Net	ВС
		У	er	s	ration		major	ns	k	s	Retur	Retur	(R/C	s	s	Retur	R
		demonstr					param	ration		Cost	n	n)	Cost	Retu	n	(R/
		ated					eter								rn		C)
Comm																	
on																	
Carps																	
Compo																	
site																	
fish																	
cultur																	
е																	

Feed Manag ement					·		•		
Manag									
ement									

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farm	No. of units	-		% change in		her meter		Econor onstrat Rs./	ion (Rs			onomic (Rs.) or		
		er		Demo	Che ck	major param eter	Demo	Check	Gros s Cost	Gross Retur n		BCR (R/ C)	Gross Cost		Net Retur n	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
Maize Sheller																
Value Addition																

Category	Name of the	No.	No.	Maj		. %		her		Econor				onomic		
	technology	of	of	parame	eters	change	parai	meter	demo	onstrat	ion (Rs	s.) or	((Rs.) or	Rs./un	it
	demonstrated	Farm	units			in				Rs./	unit					
		er		Demo	Che	major	Demo	Check	Gros	Gross	Net	BCR	Gross	Gross	Net	BCR
					ck	param			s	Retur	Retur	(R/	Cost	Retur	Retur	(R/C)
						eter			Cost	n	n	C)		n	n	
Vermi																
Compost																
Sericulture																

FLD on Women Empowerment

Category	Name of	No. of	Name of observations	Demonstration	Check
	technology	demonstrations			
Solar		13	1) drying / hr		
dryer	Drying of		Onion	1.4	13.7
	Vegetables by		 Tomato 	9.6	15.7
	DBSKKV		 Spinach 	5.6	9.9
	Dapoli		 Mahua flower 	13.3	26.6
			 Fenugreek leaves 	5.6	9.9
			Shelf life in Laminated packaging	9 months	4 months
Rava		13			
Grinding	To see the		1. Output(kg/hours Rava	39	21
machine	efficiency of		2. Time requirement		
for millet	Improved			2	3
	Multipurpose		3. Rava recovery (%)	85	45

Rava Grinding machine for millet		

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technolo gy demonstr ated	No. of Farme r		Major paramete rs	File observ (outpu n ho	ation t/ma	% change in major paramet	change days) n major			nan	Cost reduction (Rs./ha or Rs./Unit etc.)				
						Demo	Chec k	er	Land prepara tion	Sowi ng	Wee ding	Total	Land prepa ration	rcult	Irrig atio n	Tota I	
Bullock drawn three tyned hoe	Maize	Bullock drawn three tyned hoe	13	5	Field capacity	0.188 ha	0.1 ha	88			0.66	0.66		580		580	

FLD on Other Enterprise: Kitchen Gardening

Nutrition	Themati	Area	No.	No.	Yield	Yield (Kg)- supply of c		Hou	sehold	Economics of				Economics of check			
garden	c area	(sq	of	of	supp	ly of	chan	s	ize	d	lemons	tration	1		(Rs	./ha)	
component		mt)	Far	Unit	veget		ge in	(number)			(Rs./	'ha)					
S			mer	S	fruits	s, etc	yield										
					from	KG in											
					the	year									1		
					Demo	Check		Dem	Check	Gros	Gros	Net	BCR	Gros	Gross	Net	BCR
					ns	*		0		S		Retur	(R/	S	Retur	Retu	(R/C)
					ration					Cost	Retur	n	C)	Cost	n/	rn	
											n/Sa				Savin		
											vings				gs*		
											*						
Vegetables	Nutritiona	200	30	30	255	210	45			1300	3400	1900	2.27	100	1520	645	0.44
and fruit	I																
vegetables	manage																
seed kit	ment																

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)		Yield	(q/ha)		% Increase	Econo	omics of (demonst /ha)	ration
						Demo		Check	in yield	Gross	Gross	Net	BCR
					High	Low	Average			Cost	Return	Return	(R/C)
Oilseed crop													
Pulse crop													
Cereal crop													
Magaza da la la													
Vegetable crop													
F													
Fruit crop													

Other (specify)							

3.4. Training Programmes (Online programmes if any should be included under On Campus category)

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of	of Participants								
	courses		Others			SC/ST		G	Frand Total	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop										
Production										
Weed Management										
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop										
Diversification										
Integrated										
Farming	5	34	2	36	126	19	145	160	21	181
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop										
Management	2	5	10	20	25	0	25	30	35	65
Soil & water										
conservation										
Integrated nutrient										
management	3	48	11	59	17	22	39	65	33	98
Production of										
organic inputs										
Others (pl.										
specify) Natural										
Farming	14	189	34	223	348	45	393	537	79	616
Total										
II Horticulture										
a) Vegetable										
Crops										
Production of low										
value and high										
value crops										
Off-season										
vegetables										
Nursery raising										
Exotic vegetables										
Export potential										
vegetables										
Grading and										
standardization										
Protective										

			ı			
cultivation						
Others (pl specify)						
Total (a)						
b) Fruits						
Training and						
Pruning						
Layout and						
Management of						
Orchards						
Cultivation of Fruit						
Management of						
young						
plants/orchards						
Rejuvenation of						
old orchards						
Export potential						
fruits						
Micro irrigation						
systems of						
orchards						
Plant propagation						
techniques						
Others (pl specify)						
Total (b)						
c) Ornamental						
Plants						
Nursery						
Management						
Management of						
potted plants						
Export potential of						
ornamental plants						
Propagation						
techniques of						
Ornamental Plants						
Others (pl specify)						
Total (c)						
d) Plantation						
crops						
Production and						
Management						
technology						
Processing and						
value addition						
Others (pl specify)						
Total (d)						
e) Tuber crops Production and						
Management						
technology						
Processing and						

	T 1				1	1	1	Γ	
value addition									
Others (pl specify)									
Total (e)									
f) Spices									
Production and									
Management									
technology									
Processing and									
value addition									
Others (pl specify)									
Total (f)									
g) Medicinal and									
Aromatic Plants									
Nursery									
management									
Production and									
management									
technology									
Post harvest									
technology and									
value addition									
Others (pl specify)									
Total (g) Grand Total (a									
to g)									
III Soil Health									
and Fertility									
Management									
Soil fertility									
management									
Integrated water									
management									
Integrated									
Nutrient									
Management									
Production and use									
of organic inputs									
Management of									
Problematic soils									
Micro nutrient									
deficiency in crops									
Nutrient Use									
Efficiency									
Balance use of									
fertilizers									
Soil and Water									
Testing									
Others (pl specify)									
Total									
IV Livestock									
Production and									
		1	•	•	•	•			

Management										
-										
Dairy Management										
Poultry										
Management										
Piggery										
Management										
Rabbit										
Management										
Animal Nutrition										
Management										
Disease										
Management										
Feed & fodder										
technology										
Production of										
quality animal										
products										
Others (pl specify)										
Total										
V Home										
Science/Women										
empowerment										
Household food	02	52	14	66	44	13	57	96	27	123
security by kitchen										
gardening and										
nutrition gardening										
Design and	1	10	15	25	58	54	122	68	69	137
development of										
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of										
nutrient loss in										
processing										
Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss										
minimization										
techniques										
Value addition	08	25	48	73	47	86	133	72	134	206
Women	1	00	00	00	00	18	18	00	18	18
empowerment	'		00			10		50	10	10
Location specific										
drudgery reduction										
technologies							j			

Rural Crafts										
Women and child	03	18	0	18	59	18	77	77	18	95
care	00	.0		. 0	0,	.0	, ,	, ,	.0	, 0
Others (pl specify)										
Total	15	105	77	182	208	189	407	313	266	579
VI Agril.								0.10		
Engineering										
Farm Machinery										
and its	5	34	12	46	76	4	80	110	16	126
maintenance	-									
Installation and										
maintenance of										
micro irrigation	1	0	0	0	21	0	21	21	0	21
systems										
Use of Plastics in										
farming practices				'						
Production of small				ļ						
tools and				'						
implements				'						
Repair and										
maintenance of				'						
farm machinery				'						
and implements				'						
Small scale										
processing and				'						
value addition				<u> </u>						
Post Harvest										
Technology										
Others (pl specify)										
Total						·				
VII Plant										
Protection			<u> </u>	<u></u>						
Integrated Pest		36	12	48	32	00	32	68	12	80
Management	01									
Integrated Disease										
Management										
Bio-control of				_ 						
pests and diseases										
Production of bio				_ 						
control agents and				'						
bio pesticides										
Others (pl specify)		00	00	00	18	00	18	18	00	18
Sericulture	01			<u> </u>						
		00	00	00	03	16	19	03	16	19
Vermi composting	01									
Total										
VIII Fisheries										
Integrated fish				·						
farming										
Carp breeding and				·						
hatchery										
Others (pl specify) Total VII Plant Protection Integrated Pest Management Integrated Disease Management Bio-control of pests and diseases Production of bio control agents and bio pesticides Others (pl specify) Sericulture Vermi composting Total VIII Fisheries Integrated fish farming Carp breeding and	01	00	00	00	18	00	18	18	00	1:

	T									
management	1	+	-							
Carp fry and								1		
fingerling rearing				ļ						
Composite fish								1		
culture										
Hatchery			ĺ							
management and								1		
culture of			ĺ							
freshwater prawn										
Breeding and								1		
culture of								1		
ornamental fishes										
Portable plastic								1		
carp hatchery	<u> </u>			<u> </u>						
Pen culture of fish								1		
and prawn										
Shrimp farming										
Edible oyster								·		
farming										
Pearl culture										
Fish processing				_ <u></u>						
and value addition										
Others (pl specify)										
Total										
IX Production of										
Inputs at site										
Seed Production										
Planting material										
production				<u> </u>						
Bio-agents										
production				<u> </u>						
Bio-pesticides										
production				<u> </u>						
Bio-fertilizer										
production	<u>L</u> _			<u> </u>			<u> </u>	<u> </u>	<u> </u>	
Vermi-compost										
production	L			<u> </u>	<u> </u>	<u> </u>	<u> </u>	! 	<u> </u>	<u> </u>
Organic manures										
production				<u> </u>			<u> </u>	1 <u> </u>	<u> </u>	
Production of fry										
and fingerlings										
Production of Bee-										
colonies and wax								1		
sheets								1		
Small tools and										
implements								1		
Production of										
livestock feed and								1		
fodder										
Production of Fish	1									
feed								1		
									<u> </u>	

Mushroom						
Production						
Apiculture						
Others (pl specify)						
Total						
X						
CapacityBuilding						
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 (pl specify)						
Total						
XI Agro-forestry						
Production						
technologies	<u> </u>					
Nursery						
management						
Integrated						
Farming Systems			1			
Others (pl specify)			1			
Total			1			
GRAND TOTAL						

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of	Participants									
	courses		Others			SC/ST		G	Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
I Crop											
Production											
Weed Management											
Resource											
Conservation											
Technologies											
Cropping Systems											
Crop											
Diversification											
Integrated											
Farming	7	85	0	85	136	43	179	221	43	264	

D. 41			J							
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop										
Management	10	5	0	5	279	67	346	284	67	351
Soil & water										
conservation										
Integrated nutrient										
management	2	15	0	15	19	3	22	34	3	37
Production of										
organic inputs										
Others (pl specify)										
Natural Farming	7	39	40	79	110	75	185	149	115	264
Total										
II Horticulture										
a) Vegetable										
Crops										
Production of low										
value and high										
value crops										
Off-season										
vegetables										
Nursery raising										
Exotic vegetables										
Export potential										
vegetables										
Grading and										
standardization										
Protective										
cultivation										
Others (pl specify)										
Total (a)										
b) Fruits										
Training and										
Pruning										
Layout and										
Management of										
Orchards										
Cultivation of Fruit										
Management of										
young										
plants/orchards										
Rejuvenation of										
old orchards										
Export potential										
fruits										
Micro irrigation										
systems of										
orchards										
5, 5, 1d, d5								<u> </u>		

		1	ı	ı		
Plant propagation						
techniques						
Others (pl specify)						
Total (b)						
c) Ornamental						
Plants						
Nursery						
Management						
Management of						
potted plants						
Export potential of						
ornamental plants						
Propagation						
techniques of						
Ornamental Plants						
Others (pl specify)						
Total (c)						
d) Plantation						
crops						
Production and						
Management						
technology						
Processing and						
value addition						
Others (pl specify)						
Total (d)						
e) Tuber crops						
Production and						
Management						
technology						
Processing and						
value addition						
Others (pl specify)						
Total (e)						
f) Spices						
Production and						
Management						
technology						
Processing and						
value addition						
Others (pl specify)						
Total (f)						
g) Medicinal and						
Aromatic Plants						
Nursery						
management						
Production and						
management						
technology						
Post harvest						
technology and						

value addition										
Others (pl specify)										
Total (g)										
Grand Total (a										
to g)										
III Soil Health										
and Fertility										
Management										
Soil fertility										
management										
Integrated water										
management										
Integrated										
Nutrient										
Management										
Production and use										
of organic inputs										
Management of										
Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
Soil and Water										
Juli aliu watel										
	2	55	Ę	60	2	0	2	57	5	62
Testing	2	55	Ę	60	2	0	2	57	5	62
	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock	2	55	Ę	5 60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease	2	55		60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management	2	55	Ę	6 60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of	2	55		60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal	2	55	•	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products	2	55	Ę	60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products Others (pl specify)	2	55		60	2	0	2	57	5	62
Testing Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder technology Production of quality animal products	2	55	•	60	2	0	2	57	5	62

Science/Women										
empowerment										
Household food	02	04	10	13	32	104	136	36	114	150
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										
Processing and										
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss	01	00	00	00	17	03	20	17	03	20
minimization										
techniques										
Value addition										
Women	2	0	44	44	42	53	95	42	97	139
empowerment										
Location specific										
drudgery reduction										
technologies										
Rural Crafts										
Women and child	1	00	00	00	08	88	96	08	88	96
care										
Others (pl specify)	02	1	3	4	3	75	78	4	78	82
Nutritional										
management										
Post harvest	1	0	0	0	8	13	21	8	13	21
management										
Household	02	00	00	00	28	56	84	28	56	84
Nutritional security										
Total	11	05	57	61	138	392	530	143	449	592
VI Agril.										
Engineering										
Farm Machinery										
and its	2	21	0	21	30	17	47	51	17	68
maintenance										
Installation and										
maintenance of	_	_	_	_	_	_			_	
micro irrigation	2	0	0	0	80	5	85	80	5	85
systems										
- J · · · ·				l						

[<u></u>								1		
Use of Plastics in										
farming practices										
Production of small										
tools and										
implements										
Repair and										
maintenance of										
farm machinery										
and implements										
Small scale										
processing and										
value addition										
Post Harvest										
Technology										
Others (pl specify)										
Total										
VII Plant										
Protection										
Integrated Pest										
Management	09	70	4	74	155	12	167	225	16	241
Integrated Disease	07	00	00	00	23	4	27	23	4	27
Management	02	00	00	00	23	7	21	25	-	21
Bio-control of	02									
pests and diseases										
Production of bio										
control agents and										
bio pesticides										
Others (pl specify)										
Total										
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										
	i		ı l	<u></u>	·		i .	i		

Edible oyster					
farming					
Pearl culture					
Fish processing					
and value addition					
Others (pl specify)					
Total					
IX Production of					
Inputs at site					
Seed Production					
Planting material					
production					
Bio-agents					
production					
Bio-pesticides					
production					
Bio-fertilizer					
production					
Vermi-compost					
production					
Organic manures					
production					
Production of fry					
and fingerlings					
Production of Bee-					
colonies and wax					
sheets					
Small tools and					
implements					
Production of					
livestock feed and					
fodder					
Production of Fish					
feed					
Mushroom					
Production					
Apiculture					
Others (pl specify)					
Total					
X Capacity					
Building and					
Group Dynamics					
Leadership					
development					
Group dynamics		1			
Formation and					
Management of					
SHGs		1			
Mobilization of					
social capital		1			
Entrepreneurial					

development of farmers/youths					
WTO and IPR					
issues					
Others (pl specify)					
Total					
XI Agro-forestry					
Production					
technologies					
Nursery					
management					
Integrated					
Farming Systems					
Others (pl specify)					
Total					
GRAND TOTAL					

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of	<u>'</u>								
	courses		Others			SC/ST		C	and Total	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop										
Production										
Weed Management										
Resource										
Conservation										
Technologies										
Cropping Systems										
Crop										
Diversification										
Integrated										
Farming	12	119	2	121	262	62	324	381	64	445
Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop										
Management	12	10	10	20	304	92	396	314	102	416
Soil & water										
conservation										
Integrated nutrient										
management	5	63	11	74	36	25	61	99	36	135
Production of										
organic inputs										
Others (pl specify)	_			_				_		
Natural Farming	21	228	74	302	458	120	578	666	194	860
Total										
II Horticulture										
a) Vegetable										
Crops										

	1		1	T	1		1
Production of low							
value and high							
value crops							
Off-season							
vegetables							
Nursery raising							
Exotic vegetables							
Export potential							
vegetables							
Grading and							
standardization							
Protective							
cultivation							
Others (pl specify)							
Total (a)							
b) Fruits							
Training and							
Pruning							
Layout and							
Management of							
Orchards							
Cultivation of Fruit							
Management of							
young							
plants/orchards							
Rejuvenation of							
old orchards							
Export potential							
fruits							
Micro irrigation							
systems of							
orchards							
Plant propagation							
techniques							
Others (pl specify)							
Total (b)							
c) Ornamental							
Plants							
Nursery							
Management							
Management of							
potted plants							
Export potential of							
ornamental plants							
Propagation							
techniques of							
Ornamental Plants							
Others (pl specify)							
Total (c)							
d) Plantation							
crops Production and							
Management technology							
Processing and							

value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										
Aromatic Plants										
Nursery										
management										
Production and										
management										
technology										
Post harvest										
technology and										
value addition										
Others (pl specify)										
Total (g)										
Grand Total (a										
to g)										
III Soil Health										
and Fertility										
Management										
Soil fertility										
management										
Integrated water										
management										
Integrated Nutrient										
Management										
	-									
Production and use										
of organic inputs	 									
Management of Problematic soils										
Micro nutrient										
deficiency in crops										
Nutrient Use										
Efficiency										
Balance use of										
fertilizers										
Soil and Water										
Testing	2	55	5	60	2	0	2	57	5	62
resurig		55	၂	00				J /	၂ ၁	02

							l			
Others (pl specify)										
Total										
IV Livestock										
Production and										
Management										
Dairy Management										
Poultry										
Management										
Piggery										
Management										
Rabbit										
Management										
Animal Nutrition										
Management										
Disease										
Management										
Feed & fodder										
technology										
Production of				1						
quality animal										
products										
Others (pl specify)				1						
Total				†						
V Home				†						
Science/Women										
empowerment										
Household food	04	56	24	80	76	117	193	132	141	273
security by kitchen	04	50	24	80	/0	117	173	132	141	2/3
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										
Processing and				+						
cooking										
Gender				+	1					
Gender mainstreaming										
_										
through SHGs	01	00	00	00	17	0.3	20	17	0.2	20
Storage loss	01	00	00	00	17	03	20	17	03	20
minimization										
techniques	00	25	4.0	7.0	47	0.4	100	70	104	201
Value addition	08	25	48	73	47	86	133	72	134	206
Women	03	00	44	44	42	71	113	42	115	157
empowerment				1						
Location specific										
drudgery reduction										
technologies				1	<u> </u>					

Rural Crafts										
Women and child	04	18	01	19	126	104	170	84	192	276
	04	10	ΟI	19	120	104	170	04	192	270
Care (planaity)	02	1	3	4	3	75	78	4	78	0.0
Others (pl specify) Nutritional	02	1	3	4	3	75	78	4	78	82
management	1	0	0	0	0	10	21	0	10	21
Post harvest	ı	0	0	0	8	13	21	8	13	21
management	0.1	0.0	0.0		0.0	- /	0.4	0.0	- ,	0.4
Household	01	00	00	00	28	56	84	28	56	84
Nutritional security										
Total	24	100	120	220	347	525	812	387	732	1119
VI Agril.										
Engineering										
Farm Machinery										
and its	7	55	12	67	106	21	127	161	33	194
maintenance										
Installation and										
maintenance of	3	0	0	0	101	5	106	101	5	106
micro irrigation	J	J	J	J	101	5	100	101	J	100
systems										
Use of Plastics in										
farming practices										
Production of small										
tools and										
implements										
Repair and										
maintenance of										
farm machinery										
and implements										
Small scale										
processing and										
value addition										
Post Harvest										
Technology										
Others (pl specify)										
Total										
VII Plant										
Protection										
Integrated Pest										
Management	10	106	16	122	187	12	309	293	28	321
Integrated Disease	10	100	10	122	107	12	007	270	20	021
Management	02	0	0	0	23	4	27	23	4	27
Bio-control of	02	J	0	J	20	7	21	20		۷,
pests and diseases										
Production of bio										
control agents and										
bio pesticides		00	00	00	10	00	10	10	00	10
Others (pl specify)	01	00	00	00	18	00	18	18	00	18
Sericulture	01	66				4.7	4.0			4.0
Manual !!	2.4	00	00	00	03	16	19	03	16	19
Vermi composting	01									
Total										
VIII Fisheries										
Integrated fish										
farming										

	T	I	1	1			1
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							
Others (pl specify)							
Total							
IX Production of							
Inputs at site							
Seed Production							
Planting material							
production							
Bio-agents							
production							
Bio-pesticides							
production							
Bio-fertilizer							
production							
Vermi-compost							
production							
Organic manures							
production							
Production of fry							
and fingerlings							
Production of Bee-							
colonies and wax							
sheets							
Small tools and							
implements							
Production of							
livestock feed and							
fodder							
Production of Fish							
feed							
Mushroom							
Production							
TTOGGCTIOTT	I			<u> </u>			

Apiculture					
Others (pl specify)					
Total					
X Capacity					
Building and					
Group Dynamics					
Leadership					
development					
Group dynamics					
Formation and					
Management of					
SHGs					
Mobilization of					
social capital					
Entrepreneurial					
development of					
farmers/youths					
WTO and IPR					
issues					
Others (pl specify)					
Total					
XI Agro-forestry					
Production					
technologies					
Nursery					
management					
Integrated					
Farming Systems					
Others (pl specify)					
Total					
GRAND TOTAL					

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of	No. of Participants								
	Course	Ger	eral/ Ot	hers		SC/ST		G	rand Tot	al
	s	Male	Femal	Total	Mal	Femal	Total	Mal	Femal	Total
			е		е	е		е	е	
Nursery										
Management of										
Horticulture crops										
Training and										
pruning of										
orchards										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										
production										
Integrated	02	25	05	30	35	5	40	60	10	70
farming										
Seed production										

Production of	2	8	0	8	22	5	27	30	5	35
organic inputs	_			_						
Planting material										
production										
Vermi-culture										
Mushroom										
Production										
Bee-keeping	01	10	00	10	20	00	20	30	00	30
Sericulture	04	74	0	74	50	0	50	124	0	124
Repair and	04	,,		, ,	30	-	30	124	-	127
maintenance of										
farm machinery	1	0	0	0	20	0	20	20	0	20
and implements										
Value addition										
Small scale										
processing										
Post Harvest										
Technology										
Tailoring and										
Stitching										
Rural Crafts										
Production of										
quality animal										
products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water										
fisheries Fish harvest and										
processing										
technology Fry and fingerling										
rearing										
Installation and										
maintenance of	3	25	20	45	45	5	50	70	25	95
micro irrigation										
Systems Organic forming	01	00	00	00) F	00	25	25	00	2 E
Organic farming	01	00	00	00	25	00	25	25	00	25

women and child	1	13	52	65	08	07	15	21	59	80
care										
Design and	1	10	15	25	58	54	122	68	69	137
development of										
low / minimum										
diet										
Women	2	20	19	39	06	36	22	26	65	81
empowerment										
TOTAL										

Training for Rural Youths including sponsored training programmes (Off campus)

					No. c	of Partici	pants			
	No. of	Gen	eral/ Ot	hers		SC/ST		G	Frand Tot	:al
Area of training	Course s	Male	Femal e	Total	Male	Femal e	Total	Mal e	Femal e	Total
Nursery										
Management of										
Horticulture crops										
Training and										
pruning of										
orchards										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										
production										
Integrated										
farming										
Seed production										
Production of										
organic inputs										
Planting material										
production										
Vermi-culture										
Mushroom	01	00	00	00	20	10	30	20	10	30
Production										
Bee-keeping										
Sericulture										
Repair and										
maintenance of	2	10	0	10	24		20	20		40
farm machinery	2	12	0	12	26	2	28	38	2	40
and implements										
Value addition										
Small scale										
processing										
Post Harvest										
Technology										
Tailoring and										
Stitching										

Rural Crafts										
Production of										
quality animal										
products										
Dairying										
Sheep and goat										
rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental										
fisheries										
Composite fish										
culture										
Freshwater prawn										
culture										
Shrimp farming										
Pearl culture										
Cold water										
fisheries										
Fish harvest and										
processing										
technology										
Fry and fingerling										
rearing										
Installation and										
maintenance of	1	0	0	0	32	3	35	32	3	35
micro irrigation										
systems	_					1.0				
Nutritional	1	00	00	00	00	42	42	00	42	42
management										
TOTAL										

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of	No. of Participants								
	Cours	Gen	eral/ Ot	hers		SC/ST		G	Frand Tot	al
	es	Male	Fema	Total	Male	Female	Total	Mal	Femal	Total
			le					е	е	
Nursery										
Management of										
Horticulture crops										
Training and										
pruning of										
orchards										
Protected										
cultivation of										
vegetable crops										
Commercial fruit										

production										
Integrated	02	25	05	30	35	5	40	60	10	70
farming (IPM)	02	20	03	30	33	9	40	00	10	, 0
Seed production										
Production of	2	8	0	8	22	5	27	30	5	35
	2	8	U	8	22	Э	21	30	5	35
organic inputs										
Planting material										
production										
Vermi-culture										
Mushroom	01	00	00	00	20	10	30	20	10	30
Production										
Bee-keeping	01	10	00	10	20	00	20	30	00	30
Sericulture	04	74	0	74	50	0	50	124	0	124
Repair and										
maintenance of	2	10	0	10	4.7	0	4.0	F.0	0	40
farm machinery	3	12	0	12	46	2	48	58	2	60
and implements										
Value addition	1	02	01	03	29	02	31	31	03	34
Small scale	-		-		-	-	-	-		
processing										
Post Harvest										
Technology										
Tailoring and										
Stitching										
Rural Crafts										
Production of										
quality animal										
products										
Dairying										
Sheep and goat										
rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental										
fisheries										
Composite fish										
culture										
Freshwater prawn										
culture										
Shrimp farming										
Pearl culture										
Cold water										
fisheries										
Fish harvest and										
processing										
technology										
Fry and fingerling										
rearing										
Installation and	4	25	20	45	77	8	85	102	28	130

maintenance of micro irrigation										
systems										
Organic Farming	01	00	00	00	25	00	25	25	00	25
Nutritional	1	00	00	00	00	42	42	00	42	42
management										
women and child	1	13	52	65	08	07	15	21	59	80
care										
Design and	1	10	15	25	58	54	122	68	69	137
development of										
low / minimum										
diet										
Women	2	20	19	39	06	36	22	26	65	81
empowerment										
TOTAL										

Training programmes for Extension Personnel including sponsored training (on campus)

Area of training	No.	No. of Participants General/ Others SC/ST Grand Total								
	of	Gen	eral/ O	thers		SC/ST		G	Frand Tot	al
	Cours	Mal	Fem	Total	Male	Female	Total	Mal	Femal	Total
	es	е	ale					е	е	
Productivity										
enhancement in	03	35	9	44	75	10	85	110	19	129
field crops										
Integrated Pest	03									
Management	03	42	2	44	17	3	20	59	5	64
Integrated										
Nutrient	02	25	5	30	47	11	58	72	16	88
management										
Rejuvenation of										
old orchards										
Protected										
cultivation										
technology										
Production and										
use of organic										
inputs										
Care and										
maintenance of										
farm machinery										
and implements	2	23	5	28	24	6	30	47	11	58
Gender										
mainstreaming										
through SHGs										
Formation and										
Management of										
SHGs										
Women and Child	1	11	09	20	07	09	16	18	18	36
care										

Low cost and										
nutrient efficient										
diet designing										
Group Dynamics										
and farmers										
organization										
Information										
networking										
among farmers										
Capacity building										
for ICT										
application										
Management in										
farm animals										
Livestock feed										
and fodder										
production										
Household food		2	44	46	0	12	12	2	56	58
security	2									
Micro irrigation										
/Irrigation	2	25	6	31	27	5	32	52	11	63
Nutritional	1	26	03	29	02	05	07	28	03	31
management										
TOTAL				_	_					

Training programmes for Extension Personnel including sponsored training (off campus)

	No.	No. of Participants								
Area of	of	Gene	eral/ Ot	thers	rs SC/ST				Frand Tot	tal
training	Cour ses	Mal e	Fem ale	Tot al	Male	Female	Total	Mal e	Femal e	Total
Productivity		•	27	27	•	22	22		40	40
enhancement in field crops	1	0	27	27	0	22	22	0	49	49
Integrated Pest Management	01	74	14	88	82	14	96	156	28	184
Integrated										
Nutrient										
management										
Rejuvenation of										
old orchards										
Protected										
cultivation										
technology										
Production and										
use of organic										
inputs										
Care and										
maintenance of										
farm machinery										

and implements					
Gender					
mainstreaming					
through SHGs					
Formation and					
Management of					
SHGs					
Women and					
Child care					
Low cost and					
nutrient efficient					
diet designing					
Group Dynamics					
and farmers					
organization					
Information					
networking					
among farmers					
Capacity					
building for ICT					
application					
Management in					
farm animals					
Livestock feed					
and fodder					
production					
Household food					
security					
Micro irrigation					
/Irrigation					
TOTAL					

Training programmes for Extension Personnel including sponsored training – CONSOLIDATED (On + Off campus)

	No.		No. of Participants							
Area of	of	Gene	eral/ Ot	thers		SC/S	Γ	Grand Total		
training	Cour	Mal	Fem	Tot	Mal	Female	Total	Mal	Femal	Total
	ses	е	ale	al	е	remaie	TOTAL	е	е	Total
Productivity										
enhancement	04	35	36	71	75	32	107	110	68	178
in field crops										
Integrated Pest	04	116	16	132	99	17	116	215	33	248
Management	04	110	10	132	77	17	116	215	33	240
Integrated										
Nutrient	02	25	5	30	47	11	58	72	16	88
management										
Rejuvenation of										
old orchards										
Protected										
cultivation										

technology										
Production and										
use of organic										
inputs										
Care and										
maintenance of										
farm machinery										
and										
implements	2	23	5	28	24	6	30	47	11	58
Gender		20	3	20	24	-	30	7,		30
mainstreaming										
through SHGs										
Formation and										
Management of SHGs										
Women and	1	11	09	20	07	09	16	18	18	36
Child care	•	• •	- '	•		- /				
Low cost and										
nutrient										
efficient diet										
designing										
Group										
Dynamics and										
farmers										
organization										
Information										
networking										
among farmers										
Capacity										
building for ICT										
application										
Management in										
farm animals										
Livestock feed										
and fodder										
production										
Household food		2	44	46	0	12	12	2	56	58
security	2		-						-	
Micro irrigation										
/Irrigation	2	25	6	31	27	5	32	52	11	63
Nutritional	1	26	03	29	02	05	07	28	03	31
management										
TOTAL										

Sponsored training programmes

Area of	No.					No. of Pa	articipants			
training	of	Gene	ral/ Ot	hers		SC/ST	-	Gı	rand Total	
	Cour	Mal	Fem	Tot	Male	Female	Total	Male	Female	Total
	ses	е	ale	al						
Crop										
production										
and										
management										
Increasing										
production and										
productivity of										
crops										
Commercial										
production of										
vegetables										
Production										
and value										
addition										
Fruit Plants										
Ornamental										
plants										
Spices										
crops										
Soil health and										
fertility										
management										
Production of										
Inputs at site										
Methods of										
protective										
cultivation										
Others (pl.										
specify)										
Total										
Post harvest										
technology										
and value										
addition										
Processing and										
value addition										
Others (pl.										
specify)										
Total										
Farm										
machinery										

Farm								
machinery,								
tools and								
implements								
Others (pl.								
specify)								
Total Livestock								
and fisheries								
Livestock								
production and								
management								
Animal								
Nutrition								
Management Animal								
Disease								
Management Fisheries								
Nutrition								
Fisheries								
Management								
Others (pl.								
specify)								
Total								
Home Science								
Household								
nutritional								
security								
Economic								
empowerment								
of women								
Drudgery								
reduction of								
women								
Others (pl.								
specify)								
Total								
Agricultural								
Extension								
CapacityBuildi								
ng and Group								
Dynamics								
Others (pl.								
specify)								
Total								
GRAND								
TOTAL								
	ı		 <u>. </u>	I.	I.	I.	i.	<u> </u>

Details of vocational training programmes carried out by KVKs for rural youth (4 or more days)

	No.					No. of I	Participant	S		
Area of	of	Gene	eral/ O	thers		SC/S			and Tota	1
training	Cour	Mal	Fem	Tot	Mal	Fema	Total	Male	Femal	Total
	ses	е	ale	al	е	le	Total	IVIAIC	е	Total
Crop										
production										
and										
management										
Commercial										
floriculture										
Commercial										
fruit										
production										
Commercial										
vegetable										
production										
Integrated										
crop management										
Organic		00	00	00	25	00	25	25	00	25
farming	01	00	00	00	25	00	25	23	00	25
Others (pl.										
specify)										
Total										
Post harvest										
technology										
and value										
addition										
Value addition										
Others (pl.										
specify)										
Total										
Livestock										
and fisheries										
Dairy farming										
Composite fish										
culture										
Sheep and										
goat rearing										
Piggery										
Poultry										
farming										
Others (pl.										
specify)										
Total										
Income										
generation										
activities										

Vermi										
composting										
Production of		03	00	03	12	00	12	15	00	15
bio-agents,	01							.0		
bio-pesticides,	٠.									
bio-fertilizers										
etc.										
Repair and										
maintenance										
of farm										
machinery										
and										
implements										
Rural Crafts										
Seed										
production	1	0	0	0	20	0	20	20	0	20
Sericulture										
Mushroom										
cultivation										
Nursery,										
grafting etc.										
Tailoring,										
stitching,										
embroidery,										
dying etc.										
Agril. para-										
workers, para-										
vet training										
Others (pl.										
specify)										
Total										
Agricultural										
Extension										
Capacity										
building and										
group										
dynamics										
Others (pl.										
specify)										
Total										
Grand Total										

3.5. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
				552
Advisory Services	01	507	45	
Diagnostic visits	240	398	00	398
Field Day	06	321	09	330
Group discussions	32	405	45	450
Kisan Ghosthi	02	40	10	50
Film Show	02	55	00	55
Self -help groups	0	0	0	0
Kisan Mela	08	1065	70	1135
Exhibition	06	2050	350	2400
Scientists' visit to farmers			00	710
field	01	710		
Plant/animal health camps	02	130	0	130
Farm Science Club	0	0	0	0
Ex-trainees Sammelan	0	0	0	0
Farmers' seminar/workshop	2	105	10	115
Method Demonstrations	28	950	38	988
Celebration of important			12	408
days	03	396		
Special day celebration	08	902	39	941
Exposure visits	07	230	8	238
Others (pl.specify)				
				1354
Total	344	12858	684	2

Details of other extension programmes:

Particulars	Number
Electronic Media (CD./DVD)	01
Extension Literature	10
Newspaper coverage	55
Popular articles	12
Radio Talks	16

TV Talks	02
Animal health camps (Number of animals treated)	118
Social Media (No. of platforms Used)	05
Others (pl. specify)	0
Total	219

3.6 Online activities during year 2023

S.	Activity Type	Mode of	Title of	No. of	No. of
No.		implementation (Video conferencing / Audio Conferencing / Facebook Live	Program	Programmes	Participants/ Views
		/ YouTube			
		Live/ Zoom/			
		Google meet/ Webex etc.)			
Α	Farmers training				
1					
2					
3					
	Total				
В	Farmers scientist's interaction programme				
1					
2					
3					
	Total				
С	Farmers seminars				
1					
2					
3					
	Total				
D	Expert lectures				
1					
2					
3					
4					
<u> </u>	Total				
E	Any other (PI. specify)				
1					

2			
3			
4			
	Total		
	Grand Total		
	(A+B+C+D+E)		

3.7. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	seed	Value (Rs)	Number of farmers
0 1 -				(q)		
Cereals	Rice	Indroveni		4.80	28800	50
	Jawar	Indrayani Dudhmojra		0.20	1200	20
Oilseeds	Jawai	Dudililloji a		0.20	1200	20
Pulses						
	Red Gram	BON-711		1.5	15000	90
	Gram	Phule Vikram		13	130000	52
Commercial crops						
Vegetables						
Flower crops						
Spices						
Fodder crop seeds	Jawar	COFS 29		2.3	138000	200
Fiber crops						
Forest Species						

Others	Little millets	Phule	0.50	3000	25
		Ekadashi			
Total			22.30	316000	447

Production of planting materials by the KVK

Crop	Name of the crop	of the	of the		Value (Rs.)	of
		variety	hybrid			farmers
Commercial						
				105000	150000	10
Vegetable seedlings	cjhillie	_		125000	150000	42
	Brinjal	Panna		28000	28000	52
	Tomato	Local		3000	3600	30
Fruits	Drumstick	PKM-1		4000	48000	37
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Spices						
Tuber						
	COFS -29	COFS -				35
Fodder crop saplings		29		15000	15000	
Forest Species						
Others						

Production of Bio-Products

Bio Products	Name of the bio-	Quantity	Value (Rs.)	No. of Farmers
	product	Kg/Lit		
Bio Fertilizers				
	Rhizobium	190	45600	220
	PSB	300	72000	140
	Azetobactor	150	36000	250
Bio-pesticide				
	Verticillium	200	48000	210
	Beaveria	100	24000	29
	Metarrihium	100	24000	45
	Paecilomyces	50	12000	26
	Peudomonas	50	12000	18
Bio-fungicide				
	Trichoderma	400	96000	185
Bio Agents	Neem powder	2000	40000	45
Others	Vermi compost	2500	15000	22
Total		6040	424600	1190

Production of livestock materials

Particulars of Live stock	Name	Name	Type of Produce	unit	Quantity	Value	No. of
	of the	of the		(no./		(Rs.)	Farmers
!	animal /	breed		lit/kg)			
!	bird /						
	aquatics						
Dairy animals							
Cows							
Buffaloes							
Calves							
Others (Pl. specify)							
-							
Poultry							
Broilers							
Layers							
Duals (broiler and layer)							
Japanese Quail							
Turkey							
Emu							
Ducks							
Others (Pl. specify)							
Piggery							
Piglet					-		

Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

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

A. KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.):

B. Literature developed/published

Item	Title	Authors name	Number
Research papers			
Technical reports	CFLD	Mr. U. D. Patil	01
	Pink bollworm	Mr. P C Kunde	01
	Management		
News letters			
Technical bulletins			
Popular articles	ICM in Soybean	Mr. U. D. Patil	01
	Importance of soil	Mr. U. D. Patil	01
	testing		
	Drought	Mr.P C Kunde	01
	Management		
	Management of pink	Mr.P C Kunde	01
	bollworm in cotton		
	Sericulture	Mr.P C Kunde	01
	Bee keeping	Mr.P C Kunde	01
Extension literature			
	Importance Of Millet	Arati Deshmukh	1000
	Importance of bajra	Arati Deshmukh	1000
	in our daily diet		

Training Manual	Small organic	Mr.P C Kunde	100
	cultivator		
Others (Pl. specify)		Mrs.Arati Deshmukh	01
Poster presentation	Backyard Nutrition Gardens; A Solution To Address Malnutrition		
TOTAL			

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Number

D. Details of Electronic Media Produced

S.	Type of social media	Title of social media	Number of
No.	platform		Followers/
			Subscribers
1	YouTube Channel	Krishi vigyan	
		Kendra, Nandurbar and KVK	134
		GKMS-DAMU Nandurbar	
2	Facebook page/	Krishi vigyan	
	Account	Kendra,Nandurbar and जिल्हा	5456
		कृषि हवामान केंद्र, कृषि विज्ञान केंद्र,	3430
		नंदुरबार, महाराष्ट्र	
3	Mobile Apps	-	-
4	WhatsApp groups	Krishi vigyan	
		Kendra, Nandurbar and 124	19264
		whats app groups (KVK	17204
		कृषिहवामान)	
5	Twitter Account	Krishi vigyan	
		Kendra,Nandurbar and	71
		District Agromet Unit, KVK,	/ 1
		Nandurbar, Maharashtra	
6	Telegram	6 groups (KVK कृषिहवामान)	372

D. Success Stories / Case studies, if any (two or three pages write-up on each case with suitable action photographs. The Success Stories / Case Studies need not be restricted to the reporting period).

S. No.	Package and practices	Details
1.	Name of farmer	Shri.Vishwanth Tarachand Dhangar
2.	Mobile number	9423496919 / 9767806083

4.	Village, tehsil, district, state, KVK& nodal officer names Intervention adopted on soil	At. Aakrale tq. Nandurbar Dist. Nandurbar, Maharashtra, Krishi Vigyan Kendra, Nandurbar, Maharashtra Nodal officer- Mr. P. C. Kunde Medium			
5.	Hybrid used, seed rate	Vitthal- Green Gold Seeds Seeds, 1.425kg/Acre			
6.	Totally raised as Rainfed or life saving / protected irrigation given after cessation of monsoon RF	monsoon RF			
7.	Yield achieved, % increase over conventional (control), number of pickings, second crop of any	, % increase over conventional - 94.48 %			
8.	Any field day conducted in this field, number of fellow farmers attended	Field day conducted at field where 85 Farmers attend this programme			
9.	Specific feed back if any & future adoption	Technology is simple & economical for increasing cotton production.			
10.	Farmer photo, field photo				
1	Also, KVKs May give quotes of	f Increases seed cost.			
1	feedback of First time	Hoeing is not possible after 60 DAS			
	farmers adopting HDPS/CS &	_			
	new hybrids & any special attainment that is noteworthy-	Technology (CS)			

Special project on cotton - Dada Lad Technology

Background

Shri.Vishwanath Dhangar is a medium farmer of Akrale village of Nandurbar district. He cultivated rain-fed cotton in his medium soil. He has been growing cotton from last twelve years and getting average yield of seven to eight quintals. This year Krishi Vigyan Kendra Nandurbar implemented the CICR-CICR: special project of cotton. In the project, demonstration of Dada Lad technology with closer spacing has been conducted on his one acre area.

3) Interventions adopted:

Closer Spacing Dada Lad Technology

► Sowing of cotton at 3 X 1 Ft

- ► Removal of monopodia at 40-45 DAS
- ▶ De topping at 85 90 DAS
- ► IPM strategies for pest management.

4) Out put:

Plots	Yield /Acre	Avg. No of bolls/ Plant	Avg. Boll weight (gms)	Avg. No of branche s/Plant	Cost of cultivat ion/Acr e	Gross incom e	Net income	C:B Ratio
Demonstra tion Plot	14.10	27.6	3.855	7.4	24850	95880	71030	1:3.86
Convention al Method	7.25	44.50	3.025	11.8	24500	49300	24800	1:2.01

By adopting Dada Lad technology he harvested yield (14.10 Qtl/Acre), Gross income of Rs 95880 /Acre, Net income Rs 71030 /Acre, BC ratio (3.86) & cost of Cultivation (Rs.24850/Acre) over **Conventional Method** yield (7.25 Qtls/Acre), Gross income of Rs.49300 /Acre, Net income Rs 24800 /Acre, BC ratio (2.01) & cost of Cultivation (Rs.24500/Acre)

He has been adopted integrated pest Management strategies for pest & disease management. By adopting this technology he saved plant protection cost of Rs 1250 /Acre.

5) Social Impact

Before participating, he was unaware about Dada Lad Technology. But after participation he became a trained person. Other farmers were taken guidance about Dada Lad Technology in cotton from him. Farmers of nearby villages, Agriculture officers from state Agriculture Department & ATMA were visited his plot.

Programmes like training, method demonstration & field day was organised on his field.

9. Feed back of the farmer:

- > Technology is simple & economical for increasing cotton production.
- Increases seed cost.
- ➤ Hoeing is not possible after 60 DAS

Photographs









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

5.1. Indicate the specific training need analysis tools/methodology followed for A. Practicing Farmers

- a) Field visits
- b) Group discussion
- c) Individual discussion
- d) Questionnaire
- B. Rural Youth
- a) Individual discussion
 - b) Group discussion
 - c) Questionnaire regarding skill
 - C. In-service personnel
 - a) Discussion
 - b) Group meetings

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

- i) PRA
- ii) Problem identified from Matrix
- iii) Field level observations
- iv) Farmer group discussions
- v) Others if any

For FLD:

- i) New variety/technology
- ii) Poor yield at farmers level
- iii) Existing cropping system
- iv) Others if any

5.3. Field activities

- i. Name of villages identified/adopted with block name (from which year) -
- ii. No. of farm families selected per village: 30

- iii. No. of survey/PRA conducted: 05
- iv. No. of technologies taken to the adopted villages 15
- v. Name of the technologies found suitable by the farmers of the adopted villages:
- vi. Impact (production, income, employment, area/technological-horizontal/vertical)
- vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES

A. Functional linkage with different organizations

Name of the Organisation/Institutions	Nature of Linkage
Dept. of Agriculture	Sponsored Training programme.
ATMA	Sponsored Training programme & projects
NABARD	Joint implementation
MPKV, Rahuri (SAU)	Joint implementation
IGNOU, New Delhi	Training
Directorate of Onion and Garlic, Rajgurunagar	Onion Seed production
National Institute of Abiotic stress Management, Baramati	Joint implementation
Dr. B. A. Marathwada University's Sub-Centre, Osmanabad	Field level training
Oil Seed Research Station, Jalgaon	Multi location trials & Resource person
Banana Research Station, Jalgaon	Demonstration
Zonal Agri. Research Station, Igatpuri	Demonstration
DRDA, Nandurbar.	Sponsored training
MAVIM, Nandurbar	Sponsored training
Wheat Research Station, Niphad	Participation in meeting
BAIF, PDKV, Akola MAFSU, Bharati Vidyapeeth, MPKV, Rahuri (Consortium)	Joint implementation
Pulse improvement project, MPKV, Rahuri	Demonstration
Bajara improvement scheme, Agril. College, Dhule	Demonstration
Sorghum research station, MPKV, Rahuri	Demonstration
BAIF, (MITTRA) Shahada	Training & Demonstration
ARS, Radhanagari, Kolhapur	Seed & Demonstration
AICRP on farm implements and machineries MPKV, Rahuri	Training & Demonstration
AICRP on ground water, MPKV,Rahuri	Training & Demonstration
Zonal Agri. Research Station,	TSP programme

Solapur	
MGIRI, Wardha	Vocational training
Khadi Gramodyog, Nandurbar	Training
IGFRI, Dharwad	TSP programme
CICR, Nagpur	Training
CIAE, Bhopal	Training/Demo
Animal Husbandry Department	Demonstration
Maize Research station, Godhara	Demonstration
IIHR, Bangalore	Technical guidance
CPDO, Goregaon	Demonstration

B. List special programmes undertaken by the KVK and operational now, which have been financed by State Govt./Other Agencies

Name of the scheme	Date/ Month of initiation	Funding agency(State Govt./Other Agencies)	Amount (Rs.)
Cropsap	June	State Department of Agriculture	20000

C. Details of linkage with ATMA

a) Is ATMA implemented in your district: Yes

If yes, role of KVK in preparation of SREP of the district-

KVK Subject Matter specialists were the coordinators of each team constituted for various agro ecological situations formed for compilation of SREP of the district.

Coordination activities between KVK and ATMA

S.	Programme	Particulars	No. of	No. of	No of
No.			programmes	programmes	Farmers
			attended by	Organized	attending
			KVK staff	by KVK	
01	Meetings		8	8	
02	Research projects		0	0	
	Training	Dr		8	320
	programmes	Panjabrao			
03		Naisargit	8		
		Sheti			
		mission			
			7	3	318
04	Demonstrations		4	3	
05	Extension				
05	Programmes				
	KisanMela		2	5	
	Technology Week		1	1	

	Exposure visit		3	2	
	Exhibition		2	2	
	Soil health camps		0	0	
	Animal Health Campaigns		0	0	
	Others (PI. specify)	FFS	1	0	
		Capacity development	5	2	
06	Publications				
	Video Films		2	0	
	Books		0	0	
	Book chapter				
	Extension				
	Literature				
	Pamphlets				
	Others (Pl.				
	specify)				
07	Other Activities (Pl.specify)				
	Watershed				
	approach				
	Integrated Farm				
	Development				
	Agri-preneurs				
	development				

D. Give details of programmes implemented under National Horticultural Mission

S.	Programme	Nature of	Funds	Expenditure	Constraints if	
No.		linkage	received if	during the	any	
			any Rs.	reporting		
				period in Rs.		

E. Nature of linkage with National Fisheries Development Board

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

F. Details of linkage with RKVY

S.	Programme	Nature of	Funds	Expenditure	Remarks
No.		linkage	received if	during the	
			any Rs.	reporting	
				period in Rs.	

i e

G. Details of linkage with PKVY (Paramparagat Krishi Vikas Yojana)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

H. Details of linkage with NFSM

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

I. Details of linkage with SMAF (Sub-mission on Agroforestry)

S. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Remarks

7. Convergence with other agencies and departments:

8. Innovative Farmers Meet

SI.No.	Particulars	Details
	Have you conducted Farm Innovators meet in your district?	Yes/ No
	Brief report in this regard	

9. Farmers Field School (FFS)

S. No	Thematic area	Title of the FFS	Budget proposed in Rs.	Expenditure	Brief report

- 10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:
- 10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

Little millets (OFT):

- 1. Biofertilizers seed treatment found effective for good germination.
- 2. Variety performed better for achieving growth and yield components compared to traditional variety. 3. Number of productive tillers/plant (10.82), panicle length (12.43 cm), number of grains/panicle (412) and test weight (3.11 g) is better than control plot. 4. Yield increased 41%

Foxtail millet: (OFT)

- 1. Biofertilizers seed treatment found effective for good germination.
- 2. Variety performed better for achieving growth and yield components compared to traditional variety.
- 3.Plant height (112), No of tillers/ M square (60.90), Earehead lengh (12.30cm) and test weight (3.15 g) is better than control plot. 4.Yield increased 32%

Cotton (OFT):

- 1.less amount of water
- 2. Maximum Sympodial branches/plant is demo plot 25 and check plot 14
- 3. Availability of nutrients is very high
- 4. Fertilizer use efficiency is increased from 80 to 90 % of fertigation(6 split)

Rabi Jowar (OFT):

1. Soak the seeds in the solution of potassium nitrate (0.05%) for good germination.2. Foliar spraying of 2% potassium nitrate at 55 DAS for effetive vegetative growth as weel as plant height (114 cm) 3.1000 seed wt.(22.8gm) 4. Yield increase 30%

Rabi Jowar (FLD):

- 1.five point method use of rabi sorghum to gate in addition yield of 3.90 qt
- 2. plant height is more ie demo plot 145cm and check plot 121 cm
- 3.1000 grain wt in demp plot was 21.82 gm and check plot is 16.17 gm
- 4. Yield increase 30.76 percent

Bengal gram (FLD):

- 1. Phule vikram variety good for mechanical harvesting
- 2. More no of pods per plant in demo plot 123 & check plot 94
- 3.100 grain wt in demp plot was 31.74 gm and check plot is 23.22 gm
- 4. Yield increase 39.75 percent

Ipm in cotton (FLD)

IPM Package helps to reduce plant protection cost.

Heavy attack of pink bollworm was observed in the month of December.

Para wilt was observed due to uneven rainfall

Grey mildew was observed on Bt cotton

Management of leaf curl in chilli

- Soil application of neem powder helps to control soil borne diseases viz.Wilt,root rot as well as sucking pests.
- Low incidence of leaf curl was observed in recommended practice as compared to farmers practice.

In potrays technology, dipping of seedling was not possible.

IPM in Brinjal

- IPM practices reduce the plant protection cost.
- Wota T traps found effective for fruit flies collection.

Control of shoot fly in Rabi Jowar

- IPM Practices reduces the incidence of shoot flies.
- •Simple fishmeal traps needs to be developed.

11. Technology Week celebration during 2023: Yes/No, If Yes

Period of observing Technology Week: From to

Online / Offline:

Total number of farmers visited : 1050
Total number of agencies involved : 25

Number of demonstrations visited by the farmers within KVK campus: 20

Other Details

Types of Activities	No. of	Number	Related crop/livestock
	Activiti	of	technology
	es	Farmers	
Gosthies	0	0	
Lectures organized	12	850	Crop tecnnhnologies
Exhibition	06	650	Crop tecnnhnologies
Film show	4	140	Crop tecnnhnologies
Fair	0	0	
Farm Visit	0	0	
Diagnostic Practical's	2	8	
Supply of Literature (No.)	6	525	Crop tecnnhnologies
Supply of Seed (q)	0.5	50	
Supply of Planting materials			
(No.)	0	25	
Bio Product supply (Kg)	0	0	
Bio Fertilizers (q)	2	45	
Supply of fingerlings	0	0	
Supply of Livestock specimen			
(No.)	0	0	
Total number of farmers			
visited the technology week	12	1025	

12. Interventions on drought mitigation (if the KVK included in this special programme)

A. Introduction of alternate crops/varieties

State	Crops/cultivars	Area (ha)	Number of beneficiaries		

B. Major area coverage und	der alternate crops/varieties	5				
Crops	Area (ha)	Nui	mber of b	enef	ficiaries	
Oilseeds						
Pulses						
Cereals						
Vegetable crops						
Tuber crops						
Total						
C. Farmers-scientists intera	action on livestock manager			T		
State	Livestock components		nber of		. of	
		inte	ractions	pai	ticipants	
Total						
D. Animal health camps org	ganized					
State	Number of camps	No.	of	No	. of	
					farmers	
Total						
E. Seed distribution in drou	ught hit states (Seed distrib	ution/sold	by KVK)			
State	Crops	Quantity (qtl)	of are	_	Number of	
			(ha)		farmers	
Total						
F. Large scale adoption of r	resource conservation techr	nologies				
State	Crops/cultivars and	gist of	Area (ha)	Number	

resource conservation

technologies introduced

of

farmers

Total		
Total		

G. Awareness campaign

Stat	Mee	etings	Gos	thies	Fiel	d days	Farı	mers	Exh	ibition	Filn	n show
е							fair					
	N	No. of	N	No. of	N	No. of	N	No. of	N	No. of	N	No. of
	Ο.	farme	Ο.	farme	Ο.	farme	Ο.	farme	ο.	farme	Ο.	farme
		rs		rs		rs		rs		rs		rs
Tot												
al												

13. IMPACT

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

Name of specific	No. of	% of	Change in income (Rs.)	
technology/skill	participants	adoption	Before	After
transferred			(Rs./Unit)	(Rs./Unit)

- B. Cases of large scale adoption(Please furnish detailed information for each case)
- C. Details of impact analysis of KVK activities carried out during the reporting period

14. Kisan Mobile Advisory Services

Month	No. of SMS sent	No. of farmers to which SMS was sent	No. of feedback / query on SMS sent
Jan 2023	56	12142	112
Feb 2023	56	13425	117
March	63	14526	148
2023			
April 2023	63	14952	120
May 2023	63	15246	114
Jun 2023	56	16425	201
Jul 2023	63	17249	178
Aug 2023	63	17985	198
Sept 2023	63	18142	204
Oct 2023	56	18835	204
Nov. 2023	63	19107	217
Dec. 2023	63	19427	229

	Message Type		Type of Messages					
KVK		Cr	Lives	Wea	Marke	Aware	Other	Total
		ор	tock	ther	-ting	-ness	enterp	

						rise	
Text only	72 8	728	728	-	124	-	2308
Voice only	72 8	728	728	1	106	1	2290
Voice & Text both	14 56	1456	1456	-	230	-	2459
Total Messages	14 56	1456	1456	-	230	-	4598
Total farmers Benefitted	19 42 7	1942 7	1942 7	ı	19427	1	19427

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

SI.	Demo	Year of	Area	Details	of produc	tion	Amou	nt (Rs.)	Remark
No.	Unit	establis	(ha)	Variety	Produce	Qty.	Cost	Gross	s
		hment					of	income	
							inputs		
1	Nursery	2006	0.03	Chilli	Seedling	125		150000	
						000			
				Brinjal	Seedling	280		28000	
						00			
				Drum	Seedling	150		15000	
				stick		0			
3	Vermico	2007	0.03		Vermi	250			
	mposting				compost	00			
					Vermi				
					culture				
4	Goatry	2006	002	Osma	Kids	05			
				nabadi					
5	Deshi	2006	0.05	Gear	Cow	220			
	Cow				dunk &	00			
					urine	kg			
						250			
						Lit.			
6	Mineral	2018	0.01		Area	3.60		40300	
	mixture				specific				
					mineral				
					mixture				

B. Performance of instructional farm (Crops) including seed production

Name	Date of	Date of	la)	Details	of produc	tion	Amour	nt (Rs.)	Remarks
of the crop	sowing	harvest	Area (h	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals							-		
Jowar	02.07.23	15.11.23	0.30	Dudh	Grain	8.0	8500	18800	

				mogra					
Bajara	25.07.23	29.10.23	0.30	Dhan shakti	Grain	3.5	3200	11200	
Jowar	26.06.23	30.10.23	1.20	Yashoda	Grain	14.50	9600	40550	
Maize	28.06.23	26.10.23	1.40		Grain	40.30	17250	65900	
Wheat	20.12.23		0.40	Green gold	Grain		9200		Yet not harvest
Pulses)					
Red gram	23.06.23	15.01.23	2.50	BDN 711	Seed	2.20	4200	22500	
Bengal gram	26.12.22	15.02.23	1.20	Phule Vikrant	Seed	12.50	16000	96000	
Oilseeds									
Fibers									
Deshi Cotton	18.06.23	19.11.23	0.40	N 539	Seed cotton	7.80	10550	55800	
Cotton	18.06.23	23.11.23	0.40	Moksha	Seed cotton	8.50	12300	63750	
Cotton	23.06.23	15.12.23	0.20	Shakti	Seed cotton	4.50	11700	33750	
Cotton	25.06.23	23.11.23	0.40	Super coat	Seed cotton	6.50	11900	48750	
Cotton	27.06.23	18.11.23	1.60	Viththal	Seed cotton	12.40	27750	93000	
Cotton	25.06.23	18.11.23	1.60	Bindhas	Seed cotton	16.23	40650	120000	
Cotton	26.06.23	17.12.23	2.20	PCH 857	Seed cotton	26.20	46600	188600	
Spices & Pla	ntation cro	pps			T	1		T	T
Florierdtus									
Floriculture									
Fruits									
Papaya	04.05.23	25.02.24	0.40	T 786	Fruit	185	46000	112000	
Guava	15.07.18		0.20	L 49	Fruit		8600		
Custard Apple	June 2002	15.11.23	0.40	Bala nagar	Fruit	5.0	3200	2200	
Guava	June 2002	25.12.23	0.40	L 49	Fruit	8.0	3800		
Ber	June 2006	13.02.24	0.40	Umrani	Fruit		3500		
Aonla	June 2006	12.12.23	0.40	N 7	Fruit		4200	3840	
Jambhul	June 2022		0.30	Bahdoli	Fruit		12000		
Vegetables									
Bittle guard	07.07.23	25.12.23	0.10		Vegetable		3600		
Drum stick	25.06.21	25.02.24	0.20	PKM 1	Seed & Vegetable		5400	12000	
Others (spec								1	
Perennial	15.06.22	15.11.23	0.40	CoFS 29	Fodder &	0.75	15000	48500	

jowar					Slip,			
					Seed			
Hybrid	15.07.20	28.11.23	0.20	Phule	Slip &	 4000	6000	
Neppiyer				Gunvant	Fodder			
Hedge	15.07.22	30.11.23	0.10	Dashrath	Seed,	 4000		
Lucern					Fodder			

B. Performance of production Units (bio-agents / bio pesticides/ bio fertilizers etc.)

SI.	Bio	Name of the Product	Qty	Amour	nt (Rs.)	Remark
No	Products		(kg/lit	Cost	Gross	s
)	of	incom	
				inputs	е	
	Bio-	Rhizobium,PSB,Azetobactor	640	11360	113600	
	Fertilizers			0		
	Bio-	Trichoderma	400	96000	96000	
	Fungicide					
	S					
	Bio-	Beaveria,Metarhizium,Veticilliu	500	12000	120000	
	pesticides	m		0		
	Bio-	Neem Powder, Vermi compost	4500	35000	55000	
	Agents					

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

SI.	Name	Details	of producti	on	Amour	nt (Rs.)	Remarks
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	

E. Utilization of hostel facilities

Accommodation available (No. of beds):

Months	No. of trainees	Trainee days	Reason for short
	stayed	(days stayed)	fall (if any)
January 2023	15	45	
February 2023	17	51	
March 2023	27	55	
April 2023	85	208	
May 2023	27	102	
June 2023	16	32	
July 2023	24	48	
August 2023	13	39	
September 2023	14	28	
October 2023	13	13	

November 2023	27	85	
December 2023	07	14	

F. Database management

S. No	Database target	Database created
01	11000	9000

G. Details on Rain Water Harvesting Structure and micro-irrigation system

Amo	Expen	Details		Activities	conduc	ted		Quan	Area
unt	diture	of	No. of	No. of	No.	Visit	Visit	tity	irriga
sanc	(Rs.)	infrastr	Trainin	Demons	of	by	by	of	ted /
tion		ucture	g	tration s	plant	far	offic	water	utiliz
(Rs.		created	progra		mate	mer	ials	harve	ation
)		/ micro	mmes		rials	s	(No.	sted	patte
		irrigatio			prod	(No.)	in	rn
		n			uced)		,000	
		system						litres	
		etc.							

H. Performance of Nutritional Garden at KVK farm If Nutritional Garden developed at KVK farm/Village Level? Yes/No If yes,

Nutritional Garden developed at KVK farm

Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
0.03	Vegetable crops	Brinjal, Tomato, Onion, Cucumber, Bitter gourd, Green peas, Beetroot, Carrot, Ridged gourd, Spinach, Bottle gourd, Radish, Okra, Lady's finger, fenugreek, coriander, Amaranthus	15000
	Fruit crops	Рарруа	
	Others if any	Curry leave, lemon , drum stick	

Nutritional Garden developed at Village Level (Area under nutritional garden)

No. of Villages	Component of	No. of species / plants	No. of farmers
covered	Nutritional Garden	in nutritional garden	covered
36	Vegetable crops	Brinjal, Tomato, Onion,	1130
		Cucumber, Bitter gourd,	
		Green peas, Beetroot,	

		Carrot, Ridged gourd, Spinach, Bottle gourd, Radish, Okra, Lady's finger, fenugreek, coriander, Amaranthus	
	Fruit crops		
36	Others if any	Drum stick and Perennial tur	4200

H. Details of Skill Development Trainings organized

S.No.	Name of	Name of	Duration		N	lo. of participants			
	KVKs/SAUs/IC	QP/Job	(hrs)	(hrs) SCs/STs Others		Others		Т	otal
	AR Institutes	role		Male	Female	Male	Female	Male	Female

17. Details of HRD activities attended by KVK staff during year

Name of	Designation	Title of the	Institute	Mode	Dates
the staff		training	where	(Online/Offline)	
		programme	attended		
Mrs.Arati		Exposure	MGP	Offline	14.02.23
Deshmukh	SMS Home	visit	Aurangabad		
	science		KVK &		to
			Jalna KVK		15.02.23
Mrs.Arati	SMS Home	National	NCERT	Offline	27.02.23
Deshmukh		interactive	Delhi		to
	science	meet			28.02.23
Mrs.Arati	CMC Home	Millet SHG	MAVIM,	Offline	21.03.23
Deshmukh	SMS Home	exhibition	NABARD		to
	science		Agri. Dept.		24.03.23

Mrs.Arati Deshmukh	SMS Home science	Training program for capacity building of agricultural extension professional of ATARI Zone-VIII to promote agro processing	ICAR- CIPHET	Offline	07.08.23 to 11.08.23
Mrs.Arati Deshmukh	SMS Home science	1 day exhibition on millet	Agri. Dept. Rotary Club of NABARD millet adda	Offline	01.09.23
Mrs.Arati Deshmukh	SMS Home science	Meeting with MAVIM, CYDA NABARD & KVK start up millet + unit	NABARD, CYDA, MAVIM, KVK	Offline	28.09.23
Mrs.Arati Deshmukh	SMS Home science	Millet empowering women & providing nutrition (National Webinar)	Hindusthan agricultural research welfare society & IIMI university Meerat	Online	15.10.23

18. Details of progress in Doubling Farmers Income (DFI) villages adopted by KVKs

Name of	Total No.	Key	No. of	Change in income	
the village	of families	interventions	farmers	(Rs/	'unit)
	surveyed	implemented	covered in	Before	After
			each	(base	(current
			intervention	year)	year)
			_		

19. Details of activities planned under NARI /PKVY / TSP / KKA, etc.

S.	Name of the	No. of	Key	No. of	No. of
No.	programme	villages	activities	activities	families
		adopted	performed	carried out	covered

20. Details of Progress of ARYA Project

Name of	No of Trainin	No of Beneficia ries	No of Extens	No of Beneficia ries	No of Unit establis	Chang inco	_	No. Of Grou
Enterpr ise	g Conduc ted		ion Activiti es		hed	Befo re	er	ps Form ed

21. Details of SAP

S.	Types of major Activity conducted- Swachhta	No. of	No. of
No.	Pakhwada, Cleaning, Awareness Workshop,	Programmes	Participants
	Microbial based Agricultural Waste	conducted	
	Management by Vermicomposting etc.		
1	Claiming camps , how to prepared vermin	41	2207
	composting, awareness programme, swchatta		
	oaths		

Sr. No	Name of	Date	Activity	No of	No of	Others	Total
	KVK			VIPs	Farmers		
1	Nandurbar	2 oct to	Awareness	0	740	100	840
		31 oct	programme				
		2023					
2	Nandurbar	2 oct to	Swachatta	0	440	125	565
		31 oct	otha				
		2023					
3	Nandurbar	Nov	Awareness	0	220	50	270
		2023	porgramm				
			on				
			swachata				
4	Nandurbar	Dec	Awareness	2	480	150	532
		2023	porgramm				
			on				
			swachata				
			and otha				

21. Books published 2023-24

Title of the Book	Authors	ISBN No	Publisher	Pages No	Description/review of the book (one paragraph/sentence)

22.. Please include any other important and relevant information which has not been reflected above (write in detail).

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of	Male	Female	Total
	Courses			participants
Farmers & farm women	31	851	207	1058
Rural youths	1	15	5	20
Extension functionaries	9	182	84	266
Sponsored Training				
Vocational Training	1	20	0	20
Total	42	1068	296	1364

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds			
Pulses	13	5	1
Cereals	13	5	1
Vegetables			
Other crops			
Hybrid crops			
Total	26	10	02
Livestock & Fisheries			
Other enterprises	03		
Total	03	00	00
Grand Total	29	10	02

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	4	52	52
Livestock			
Various enterprises	02	26	26
Total	06	78	78
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total	00	00	00
Grand Total	06	78	78

4. Extension Programmes

Category	No. of Programmes	Total Participants	
Extension activities	348	8106	
Other extension activities	98	2500	
Total	895	119200	

Mobile Advisory Services

	Message Type	Type of Messages						
Name of KVK		Crop	Livest ock	Weat her	Mark e- ting	Aware -ness	Oth er ent erpr ise	Total
	Text only	728	728	728	_	124	-	2308
	Voice only	728	728	728	-	106	-	2290
	Voice & Text both	1456	1456	1456	-	230	-	2459
	Total Messages	1456	1456	1456	-	230	-	4598
	Total farmers Benefitted	19427	19427	19427	-	19427	-	19427

5. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	22.33	316000
Planting material (No.)	175000	244600
Bio-Products (kg)	6040	424600
Livestock Production (No.)		
Fishery production (No.)		

6. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	1265	189765
Water	425	64000
Plant	-	-
Total	1690	253756

7. HRD and Publications

Sr. No.	Category	Number
1	Abstract	05
2	Workshops	05
3	Conferences	02

4	Meetings	18
5	Trainings for KVK officials	12
6	Visits of KVK officials	28
7	Book published	00
8	Training Manual	02
9	Book chapters	02
10	Booklet	01
11	Leaflets/ Folder/ Pamphlet	06
12	Research papers	01
13	Technical Bulletin	00
14	Popular article	12
15	Lead papers	00
16	Seminar papers	02
17	Extension folder	06
18	Proceedings	02
19	Award & recognition	00
20	On-going research projects	02
21	Other	