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	a 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		lf 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					Sta		
No.	building	of	(Complet	е		Incom	olete		
		funding	Completi on Year	Plinth area (Sq. m)	Expenditu re (Rs.)	Starting year	Plinth area (Sq. m)	Status of construction		
1.	Administrative Building	ICAR	2004-05	500	2750006					
2.	Farmers Hostel		2006-07		1821000					
3.	Staff Quarters	ICAR	2006-07	400	2148000					
4.	Fencing	ICAR	2005-06	-	1680000					
5	Rain Water harvesting system	ICAR	2006-07	-	879000					
6	Threshing floor	ICAR	2008-09		200000			-		
7	Farm Podown									
8	Soil and water testing lab	ICAR	2005-06	60	1200000	2005				
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 Building	ICAR	2004-05 2006-07	500	2750006 1821000					
15	Other pl mention									

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present 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	Good
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
Panja cultivator	2008 - 2009	25000.00	Working

Atomic Absorption Unit	2008 - 2009	100000.00	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 transplanting	2018-19	37500	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 winch wheel barrows	2018-19	71738	Good
Neem seed pulverizer	2018-19	62540	Good
Reversible MB plough and Roller	2018-19	79501	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 6Trays(Electrical)	2022-23	82600	Good
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
3	Zone – III Akrani & Northern	Sub Moutain Zone
	part of Akkalkuwa	
4	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	Scarcity Zone AES-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	

S. No	Сгор	Area (ha)	Production (MT)	Productivity (q./ha)	
	Major Field crop)S		· · ·	
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	iral 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	Рарауа	1400	-	500	
27	Watermelon summer	744	-	12	

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

2.5. Weather data (2023)

Month	Normal	Normal Rainy days	Temperature (°		Relative	
	RF(mm)	(number)	C	:)	Humidity (%)	
			Maximu	Minimu	Maximu	Minimu
			m	m	m	m
January	00	00				
February	00	00				
March	36	03				
April	4.5	01				
Мау	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	cultivation practices ,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				

Рарауа	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 nut	Integrated Nutrient Management, pest & disease management, 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 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 & disease management
Red gram	Improved Varieties, Integrated Nutrient Management, Pest management, Processing and Value Addition
Green gram	Seed treatment, Improved Varieties, cultivation practices, Integrated Nutrient Management, pest & disease management, ICM, Processing and Value Addition
Black gram	Seed treatment, Improved Varieties, cultivation practices, Integrated Nutrient Management, pest & disease management, ICM, Processing and Value Addition
Wheat	Integrated Nutrient Management, pest & disease management
Onion seed production	Honey bee, integrated crop management
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 Technology	Awareness creation on harvesting, drying and storage of agril. Produce.
	Awareness creation on cleaning and grading of grains.
	Quality improvement in Amchur preparation from Mango.
	Quality improvement in Amchur preparation from Mango. Processing and value addition of pulses and oilseeds

3. TECHNICAL ACHIEVEMENTS

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

	OFT				FLD			
	1					2		
Numb	er of OFTs	Number of farmers		Number of FLDs		Number of farmers		
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	4		
	mber of ourses		mber of ticipants	Number of Programmes		Number of participants		
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	naterials (Nos.)
	5		6
Target	Achievement	Target	Achievement
	¥		

-	oultry strains and lings (No.)	Bio-pr	oducts (Kg)
	7		8
Target	Achievement	Target	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

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

					[· · ·]
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	Tuber Crops	TOTAL
Integrated Nutrient Management	1			1				crops	crops	
Varietal Evaluation	2									
Integrated Pest Management	1				1					
Integrated Crop Management										
Integrated Disease Management					1					
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	Сгор	Name of the technology assessed	No. of trials	Nu mb of far me rs	in ha (Per trial coveri
Integrated Nutrient	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		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		Management of Fall Army Worm	13	13	5
Integrated Crop Management		Management of White grub in onion	13	13	5
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
	Cotto n	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 the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
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 se	Farmin g situatio n	Problem definitio n	Title of OFT	No. of trial s	Technolo gy Assessed	ers of	Data on the paramet er	Results of assessm ent	Feedback from the farmer	Any refineme nt needed	Justificati on for refineme nt
1	2	3	4	5	6	7	8	9	10	11	12
Little millet	irrigat ed	Use of traditio nal variety, Low yield	Varietal performa nce of Little millet (Phule Ekadashi) in satpuda ranges of Dhadgao n tahasil.	1 3	Use of Improv e variety (Phule Ekadas hi)	Yield Tillers per plant C: B ratio	Yield T1: 11.17 T2: 15.24 Net return: T1:274 46 T2: 41512 B:C Ratio: T1: 2.83 T2: 3.53	Yield is increase (41%)	1.Biofertiliz ers seed treatment found effective for good germinatio n. 2. Variety performed better for achieving growth and yield component s compared to traditional variety. 3.Number of productive tillers/plan t (8.67),		

			panicle length (37.6 cm), number of grains (pani	
			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 satpuda range	of Little millet (Phuless of Dhadgaon tahas				
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			
Ū	performance indicators	Yield Q/ha	11.17	15.24			
	indicators	Net return Rs/ha	27446	45512			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Net return Rs/na27446455121.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	• •	etter for achieving g red to traditional vari				
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 demons	tration organized at	block leval			

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



Crop production : 2

Crop/ enterpri se	Farmin g situatio	Problem definitio n	Title of OFT	No. of trial	Technolo gy Assessed	Paramet ers of assessm	Data on the paramet	Results of assessm	Feedback from the farmer	Any refineme nt	Justificati on for 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			
Ũ	performance indicators	Yield Q/ha	12.55	16.57			
	Indicators	Net return Rs/ha	35300	49780			
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Net return Rs/ha35300497801.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)



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	Ν	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 %,				gу		
		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						
l		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	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	14.52 18.13							
	indicators	Net return Rs/ha	70542 94123							
7	Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	of variousogy1.No of bolls per plant is increaseeters done2.Yield is increase(30%) due to use of fustigationn farmer'stechnologyvation / other3.Saving of fertilizer cost								
8	Final6th Split application of Nitrogen fertilizer schedule of Bt.recommendation for micro level situationCotton									
9	Constraints identified and feedback for research and Fertilizer efficiency is more, yield is increase (30%) developmental departments									
10	Process of farmers participation and their reaction	Farmers meetings, Training, Method demonstration								

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



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%	

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 Technology option 3	MPKV Rahuri	15.27	q/ha	28969	
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	Nandurbar district h	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 12 hours and dry und Azotobactor and PSE 80:40:40 NPK kg/ha	er shade. Then trea 3 (each25gm/kg of	at the seeds with seeds and RDF i.e				
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	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	 Soak the seeds in the solution of potassium nitrate (0.05%) for good germination. Foliar spraying of 2% potassium nitrate at 55 DAS for effetive vegetative growth as weel as plant height (118 cm) 						
8	Final recommendation for micro level situation	Soak the seeds in the hours and dry under s Azotobactor and PSB i.e 80:40:40 NPK kg/I DAS	shade. Then treat th (each25gm/kg of s	ne seeds with eeds) and RDF				
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	nonstration				

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



Results of On Farm Trial -5	Results	of On	Farm	Trial	-5
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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 &			Т3						
		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	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
Spraying of pesticides (Profenophos 50 EC, Trizophos 40 EC, Dichlorovos 76 EC		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 fa	all 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	 T₂ – 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 10⁸ CFU/g)1.15WP OR Metarhizium anisopliae 1x 10⁸ 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 Pest 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	Spraying of Meta economical for th	•	ae was found effec Army Worm.	tive and				
8	Final recommendation for micro level situation	Cost effective technology for the management of Fall 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 d	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 <i>Metarhizium</i> 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	=	129.65	Qt/ha-	139267.5	3.25
anisopliae 1x 10 ⁸ CFU/g)					
1.15WP @ 50 gm per 10 lit of					
water					
at 15 days					
interval.					

C2. Details of On Farm Trial for assessment: 2

1 Titlo of	Management of white grub in opion
1.TitleofTechnology 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 technologies selected for assessment	T ₁ - Farmers practice: Application of chemicals like phorate @10kg/ha, chlorpyrifos@ 25-30 ml/ lit. cypermethrin 10 ml/lit water etc. T ₂ – Technology Assessed:
	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 technology	MPKV, Rahuri
5. Production system and thematic area	: Integrated Pest Management
6. Performance of the Technology with performance indicators	 T1. White grub infestation-1.05 %, Plant protection cost- Rs 13500 T2- White grub infestation- 0.3 %, Plant protection cost-Rs 11950 T3- White grub infestation- 0.12 %, Plant protection cost-Rs 10500
7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques	Castor fermented traps found effective for attracting white grub beetles
8. Final recommendation for micro level situation	==
9. Constraints identified and feedback for research	
10.Processoffarmersparticipationand their reaction	- Training,Farmers meeting,Field visits

Results of On Farm Trial – 7

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

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
13. Details of	control of yellow vein mosaic.
technologies selected	T ₁ - Farmers practice:
for assessment	- 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	: Integrated Pest Management
system and thematic area	
16. Performance of	T1. Yellow mosaic infestation- 8.75 %, Plant protection cost-
the Technology with	Rs 14050
performance indicators	T2- White grub infestation-3.05 %, Plant protection cost-Rs 12250
17. Feedback,	Phule vimukta variety found resistant to yellow mosaic disease
matrix scoring of	
various technology	
parameters done	
through farmer's	
participation / other	
scoring techniques	
18. Final	==
recommendation for	
micro level situation	
19. Constraints	
identified and feedback	
for research	
20. Process of	- Training,Farmers meeting,Field visits
farmers participation	
and their reaction	

Crop/ enterpris e	Farmin g situati	Problem definition	Title of OFT	No. of trial	Technolo gy Assessed	Paramete rs of assessme	Data on the paramet	Results of assessme	Feedback from the farmer	Any refineme nt	Justificati on for 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.		

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

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 ca the weeds from th	il, which leads los applied near the p After traditional me arry out manual we e area closer to th	Fertilizers, even Urea as of fertilizers. The blants and should be bethod 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.	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 of the	Performance indicators	Improved practice	Farmers practice			
6	Technology with performance	Field capacity, ha /hr,	0.125	0.0625			
	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	on was also carried ne implement useful				

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. 		

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

Contd..

1	Title of Technology Assessed :	To asses Insulated fish price	To asses Insulated fish bags for superior quality and price						
2	Problem Definition : for assessment	Quality of fish (shelf life), unhygienic condition							
3	Details of technologies selected	Insulated fish bag							
4	Source of technology	ICAR-CIFT MUMBAI							
5	Production system and thematic area	Storage loss minimization	on						
		Performance indicators	I mproved method	Farmers method					
6	Performance of the	1)Shelf life of fish (/hr)	10 to 12 hr	4 to 5					
6	Technology with 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 minimu 		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 demo	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		13	Farmers practice Regular diet Technology Assessed-	1) Weight kg- Initial wt(kg) Final Wt (kg) Initial wt(kg)	45.054 45.563 43.025	Weight of women had increasing 2.53% and Hemoglobi n level had increased	New verity of bio fortified pearl millet to increasin g the		
		iron, calcium, protein rich food			Bio fortified Pearl millet (Dhanshakti)	Final Wt (kg) 2.Hemoglobe n percentage Before HB level After HB level	44.125 8.4 9.12	1.5% compared to other women	weight and increasin g he hemoglob in		

1	Title of Technology Assessed :	To study the efficie	ncy of Iron rich foo	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	2					
,	Performance of the Technology with	PerformanceImprovedFarmersindicatorspracticepractice						
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 fortified pearl millet to increasing the weight and increasing hemoglobin						
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 , illiteracy and low income of family						
10	Process of farmers participation and their reaction	Farmers meeting, tra	ning					

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

Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system		Horizon spread technolo	
Bengal gram	Varietal evaluation	Improved Variety	Training, Farmer meeting, Demonstration, Field day	20	500	390
Rabi Jowar	Crop management	Five point method technology	Training, Farmer meeting ,Demonstration, Field day	18	320	157
Cotton	Integrated pest management	IPM	Training,FLD,Field day,demostration,Radio talk	35	650	450
Рарауа	IPM	Control of mealy Bug by using bio agent	Training, Farmer meeting, Demonstration.	20	250	280
Brinjal	IPM	Management of shoot & fruit borer	Training, Farmer meeting ,Demonstration, Field day	08	125	130
Chilli	IDM	Management of Leaf curl virus	Training, Farmer meeting ,Demonstration, Field day	07	80	80
	Bengal gram Rabi Jowar Cotton Papaya Brinjal	Bengal gramVarietal evaluationRabi JowarCrop managementRabi JowarIntegrated pest managementPapayaIPMBrinjalIPM	Bengal gramVarietal evaluationImproved VarietyRabi JowarCrop managementFive point method technologyCottonIntegrated pest managementIPMPapayaIPM integrated pest managementControl of mealy Bug by using bio agentBrinjalIPM integrated pest managementControl of mealy Bug by using bio agentBrinjalIPM integrated pest managementManagement of shoot & fruit borerBrinjalIDMManagement of shoot & fruit borer	MethodsBengal gramVarietal evaluationImproved VarietyTraining, meeting, Demonstration, Field dayRabi JowarCrop managementFive method technologyTraining, Farmer meetingRabi JowarCrop managementFive method technologyTraining, Farmer meetingCottonIntegrated pest managementIPMTraining, Fleld dayPapayaIPMControl mealy Bug by using bio agentTraining, Farmer meeting, talkBrinjalIPMControl Management of mealy Bug byTraining, Farmer meeting, Demonstration, Farmer mealy Bug by borerTraining, Farmer meeting, Demonstration, FarmerBrinjalIPMManagement of 	Image: section of the section	Image: Second

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 strated	Season and year	Area	Area (ha)		No. of farmers/ demonstration			
			Silateu		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	кvк	5.00	5.00	13	00	13	

Pulses

SI. No	Crop	Thematic area	Technology Demonstrated	n and of fund	Source of funds	Area (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
											ll 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. No.	Crop	Thematic area	Technology Demonstrated	Seaso n and	Source of funds	Area (ha)		of farme nonstrat		Reasons 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		Ν	Р	К		date	date	rainfall	rainy
		(RF/								(mm)	days
		Irrigated)									
Rabi	Rabi 2022	Rain fed	Medium	L	М	Н	Soybean	4 st week	4 th		
Jowar							Fellow	October	week		
							G.Gram,	2023	February		

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

Pulses

Crop	Season	Farming			Status of s	oil	Previous	Sowing	Harvest	Seasonal	5
		situation (RF/Irrig ated)		Ν	Р	К	crop	date	date	rainfall (mm)	days
Bengal gram	Rabi-2022	Irrigated	Shallow to Medium	Low	Medium	High	Green gram,Black gram	Nov.2022	Feb 2023	640	38

Horticultural crops

Crop	Season	Farming	Soil type		Status of s	oil	Previous crop	Sowing	Harvest	Seasonal	No. of
		situation (RF/ Irrigated)		Ν	Ρ	К		date	date	rainfall (mm)	rainy days
Brinjal	Summer 23	Irrigated	Medium	L	М	Η	Paddy, Maize, Jowar, Soybean	4 th week Jan & 1 st ,2 nd week Feb.2023	May to July 2023		
Chilli	Kharif 2023	Irrigated	Medium	L	М	H	Bengal gram, Cotton, Wheat	July- 1 st & 2 nd week	Nov, Dec 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 (IPM)	Kharif 23	Rain fed	Medium	L	М	Н	Cotton Soybean Maize Jower B.Gram	4 th week June & 1 st week july	4 th week dec. & Jan 1 st week		

Technical Feedback on the demonstrated technologies Cereals crops

S.	No		Feed Back
Rabi jowar method)	(Five	point	1.five point method use of rabi sorghum to gate in addition yield of 3.90 qt2.plant height is more ie demo plot 145cm and check plot121 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	Thematic Area	technolog y demonstra		No. of Farme rs			Yield	(q/ha)		% Increa se in		Econor lemons (Rs.			Economics of check (Rs./ha)			
		ted)	Hig h	Dem Lo w	o Avera ge	Che ck	yield	Gro ss Cost	Gros s Retu rn	Net Retu rn	BCR (R/ C)	SS	Gros s Retu rn	Net Retu rn	
Ground nut																		
Sesamu m																		
Mustard																		
Safflow er																		
Linseed																		
Sunflow er																		

Soybea n	Integrated Crop	ICM	Phule Sanga	25	10	24.3 3	2	21.86	16.1	35.61	243 00	1235 09	9920 9	5.08	227 50	9107 8	6832 8	4.00
	Mismanage ment		m				2		2		00	07	,		50		0	
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 Iemons (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 8	13.2 3	18.57	13.3 2	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			
у&	tic	of the	of	ea					Cha	Para	amet		demons	tration			(Rs./	′ha)	
Crop	Area	techno	Far	(h					nge	e	rs		(Rs./	′ha)					
		logy	mer	a)		Dem	0	Che	in	De	Ch	Gro	Gros	Net	BC	Gro	Gros	Net	BC
			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																			

Waterlo										
gged										
Situatio										
n										<u> </u>
-										
Coarse										
Rice					 		 			
Scented										
Rice										
Wheat										
Wheat										
Timely										
sown										
Wheat										
Late										
Sown										
Mandua										
Mariada										
Barley										

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 6		163 50	4476 6	2841 6	2.7 4	147 50	3423 6	1948 6	2.3 2
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																		

			I I		1						-			
Finger														
millet														
														
Vegetab														
les														
les														
Bottlego														
urd														
												 		
Bittergo														
urd														
														
Cowpea														
														ļ
Sponge														
gourd														
gouru														
D a the a												 		
Petha														ļ
Tomato														
Tomato														
F	├			<u> </u>										├─── ┤
Frenchb														
ean												 		
				1										
												 		<u> </u>
Capsicu														
		1		L		I	I	I	l	I			I	L

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 4	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 3	825 00	1931 62.5	1106 62.5	2.2 9
Vegetab Ie pea																		
Softgou rd																		
Okra																		
Colocas ia (Arvi)																		
Broccoli																		
Cucumb																		L

er									
Onion									
Coriend									
er									
Lettuce									
Lettuce									
Cabbar									
Cabbag									
е									
									ļ
									ļ
Cauliflo									
wer									
Elephan									
t fruit									
Any									
other (Pl									
specify)									
<i>J/</i>									
Flower									
									i
crops									├───┤
Marigol									

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d													
Bela													 []
Dela													<u> </u>
													 <u> </u>
Tuberos													
е													
Gladiolu													
S													
													[]
A 1014													
Any													
other (Pl.													
specify)				 									 <u> </u>
Fruit													
crops													
Mango													
Strawbe													
rry													
													I
													 <u> </u>
Guava													 <u> </u>
Banana													
		I	1	1		1	I	1			1	1	,
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Deve													
Papaya		-											
											ļ		
Muskme													
lon													
Waterme													
lon													
Any													
other (Pl.													
specify)													
Spices													
&													
condime													
nts													
Ginger													
Garlic													
Turmeri													
С											1		
Any													
other (PI.											1		
specify)											1		
specing)		1	l	l	I	l l	l	[l		<u> </u>		

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 2		396 50	1002 51	6060 1	2.5 3	405 00	8290 8	4240 8	2.0 55
Any other (Pl. specify)																		
Medicin al & aromati c plants																		
Menthol ment																		
Kalmeg h																		
Ashwag andha																		

Any										
other (PI.										
specify)										
Fodder Crops										
Sorghu m (F)										
Cowpea (F)										
(.)										
Maize										
(F)										
Lucern										
Bersee										
m										
O-+ (F)										
Oat (F)										$\left \right $
										$\left \right $
Napier										
маріеі										$\left \right $
						 <u> </u>				$\left \right $

Grasses								

Frontline Demonstration on Nutri cereals

		Technology					Yiel	d (q/ha)		%	_		nics of		Ecc	onomics		eck
р	ic Area	demonstrat	У	Farme	а					Increa	demo	onstrati	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	Ma	jor	%	Ot	her		Econor	nics of	,	Eco	nomic	sof 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		1	Dem	Chec	paramet	Dem	Chec	Gros	Gross	Net	BCR	Gros	Gross	Net	BCR
				Poultry	ο	k	er	ο	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		sofche s.)	eck
.,	io arou	technolog	_	_	Demons	Check	e in	Demo			Gross		-	Gros	Gros	Net	BC
		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								
Feed Manag ement								
ement								

FLD on Other enterprises

er	Demo	Che ck	major	Demo	Check	Gros	Groce	Not		0	C == = = =	Niat	
			param eter		oncon		Retur n			Gross Cost	Gross Retur n	Net Retur n	BCR (R/C)
						Image: state stat	Image: state s	Image: state s	Image: series of the series	Image: series of the series	Image: series of the series	Image: series of the series	Image: series of the series

Category	Name of the technology	No. of	No. of	Maj param		% change		her meter		Econor onstrat	ion (Rs		-	onomic: (Rs.) or		-
	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		 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	Сгор	Technolo gy demonstr ated	No. of Farme r		Major paramete rs	File observ (outpu n ho	ation t/ma	% change in major paramet	Labor	reduc days	•	nan		ost red ⁄ha or etc	Rs./U	
						Demo	Chec k	er	Land prepara tion	Sowi ng	Wee ding	Total	Land prepa ration	Inte rcult ure oper atio n	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	g
--	---

Nutrition garden component s	Themati c area	Area (sq mt)	No. of Far mer	No. of Unit s	Yield supp vegeta fruits from the y	ly of ables, s, etc KG in	% chan ge in yield	s	sehold ize mber)			nics of stratior /ha)		E	conomi (Rs	cs of c s./ha)	heck
					Demo ns ration	Check *	-	Dem o	Check	Gros s Cost	Gros s Retur n/Sa vings *	Net Retur n	BCR (R/ C)	Gros s Cost	Gross Retur n/ Savin gs*	Retu rn	BCR (R/C)
Vegetables and fruit vegetables seed kit	Nutritiona I manage ment	200	30	30	255	210	45			1300	3400	1900	2.27	100	1520	645	0.44

FLD on Demonstration details on crop hybrids

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)		Yield	(q/ha)		% Increase	Econo	omics of ((Rs.	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													
Vegetable													
crop													
Fruit crop													

Other (specify)							
(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				Р	articipan	ts			
	courses		Others			SC/ST		G	Frand Tot	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										

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							
3	ı	ı		1		1	ı

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	I		I	1	1	 1	I

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	6.6	4.4	13	57	04	27	123
	02	52	14	66	44	13	57	96	27	123
security by kitchen										
gardening and										
nutrition gardening	1	10	15	25	58	54	122	68	69	137
Design and development of	I	10	15	25	00	54	122	00	09	137
low/minimum cost										
diet										
Designing and										
development for										
high nutrient										
efficiency diet										
Minimization of	1									
nutrient loss in										
processing										
Processing and					1					
cooking										
Gender										
mainstreaming										
through SHGs										
Storage loss				1	1					
minimization										
techniques										
Value addition	08	25	48	73	47	86	133	72	134	206
Women	1	00	40	00	00	18	18	00	134	18
empowerment		00	00				10	00		10
Location specific										
drudgery reduction										
technologies										
teennologies		1		1	1	I	1	1	I	

Rural Crafts										
Women and child	03	18	0	18	59	18	77	77	18	95
care										
Others (pl specify)										
Total	15	105	77	182	208	189	407	313	266	579
VI Agril.										
Engineering										
Farm Machinery										
and its	5	34	12	46	76	4	80	110	16	126
maintenance										
Installation and										
maintenance of		0								
micro irrigation	1	0	0	0	21	0	21	21	0	21
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		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									
		00	00	00	03	16	19	03	16	19
Vermi composting	01									
Total										
VIII Fisheries										
Integrated fish										
farming										
Carp breeding and										
hatchery										
<u> </u>						i				

management							
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							
	1	1					
livestock feed and							
livestock feed and fodder							
livestock feed and							

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	 			 	
Nursery					
management	 			 	
Integrated					
Farming Systems				 	
Others (pl specify)	 				
Total				 	
GRAND TOTAL					

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of		Participants									
	courses		Others			SC/ST		Ċ	Frand Tot	al		
		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		

Micro										
Irrigation/irrigation										
Seed production										
Nursery										
management										
Integrated Crop	10	F	0	F	270	(7	244	204	(7	251
Management	10	5	0	5	279	67	346	284	67	351
Soil & water										
conservation										
Integrated nutrient	2	1 -	0	1 -	10	2	22	2.4	2	27
management	2	15	0	15	19	3	22	34	3	37
Production of										
organic inputs										
Others (pl specify)	_		10	70	440	75	105	1.10	445	044
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										

Diant propagation	1						
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	1						
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							
technology and	L				1		

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
resting										
	2	55	5	00	2	0	2	57	5	02
Others (pl specify)	2		5	00	2	0	2	57	5	02
Others (pl specify) Total			5	00	2			57	5	02
Others (pl specify) Total IV Livestock			5					57	5	
Others (pl specify) Total IV Livestock Production and										
Others (pl specify) Total IV Livestock Production and Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management										
Others (pl specify) Total IV Livestock Production and Management Dairy Management Poultry Management Piggery Management Rabbit Management Animal Nutrition Management Disease Management Feed & fodder										
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										
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										
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										
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) 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)										
Others (pl specify)TotalIV LivestockProduction andManagementDairy ManagementPoultryManagementPiggeryManagementRabbitManagementAnimal NutritionManagementDiseaseManagementFeed & foddertechnologyProduction ofquality animalproducts										

empowermentImage: security by kitchen gardening and nutrition gardening and hew loyment of low/minimum cost dietImage: security by kitchen gardening and nutrition gardening and nutrition gardening and nutrition gardening and hew loyment of high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and hew loyment for high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening and high nutrient efficiency dietImage: security by kitchen gardening an	Science/Women										
Household food security by kitchen gardening and nutrition gardening outging and development of low/minimum cost diet 02 04 10 13 32 104 136 36 114 150 Design and development of low/minimum cost diet .	empowerment										
security by kitchen gardening and nutrition gardening besign and development of low/minimum cost diet Design and development of low/minimum cost diet Design and development of low/minimum cost diet Design and development for high nutrient efficiency diet Minimization of nutrient sin processing processing mainteraming through SHGs Storage loss nutrient here storage loss nutrient by through SHGS Storage loss nu		02	04	10	13	32	104	136	36	114	150
gardening and nutrition gardening Image: Section of the		02	01	10	10	02	101	100	00		100
Intrition gardening Image: second secon											
Design and development of low/minimum cost diet Image: second secon											
development of low/minimum cost diet Image: second se											
low/minimum cost diet Image: Market Mar	_										
dietImage: sector of the sector o											
Designing and development for high nutrient efficiency dietImage: second seco											
development for high nutrient Image: second se											
high nutrient efficiency dietImage and the second											
efficiency diet Image: second se											
Minimization of nutrient loss in processingImage: second sec	-										
nutrient loss in processingImage: second se											
processing 1 <th1< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th1<>											
Processing and cookingIndication											
cooking cooking <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
Gender mainstreaming through SHGs O1 O0 O0 O0 17 O3 20 17 O3 20 Storage loss minimization techniques 01 00 00 17 03 20 17 03 20 Value addition 0 0 44 42 53 95 42 97 139 empowerment 0 0 00 00 08 88 96 28 97 139 Location specific drudgery reduction technologies 0 00 00 08 88 96 08 88 96 Care 0 00 00 00 08 88 96 08 88 96 Care 0 0 00 00 08 88 96 08 88 96 Care 0 0 0 0 0 20 1 3 4 3 75 78 4 78	-										
mainstreaming through SHGs 01 00 00 00 17 03 20 17 03 20 Storage loss 01 00 00 00 17 03 20 17 03 20 Women 2 0 44 44 42 53 95 42 97 139 empowerment 2 0 444 44 42 53 95 42 97 139 empowerment 2 0 444 44 42 53 95 42 97 139 empowerment 1 0 1 <td>-</td> <td></td>	-										
through SHGsImage of the second											
Storage loss minimization techniques 01 00 00 17 03 20 17 03 20 Value addition	0										
minimization techniques initial initinitial initininitial initial initial initial initinininitial init		01	00	00	00	17	00	20	17	0.2	20
techniquesImage: second s	0	01	00	00	00	17	03	20	17	03	20
Value additionImage with the second seco											
Women 2 0 44 44 42 53 95 42 97 139 empowerment Location specific Image: Constraint of the symbol of the											
empowermentI.d. <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>1.0</td> <td></td> <td>~ -</td> <td></td> <td>~ -</td> <td>1.2.2</td>			-			1.0		~ -		~ -	1.2.2
Location specific drudgery reduction technologiesImage with the specific reduction technologiesImage with the specific reduction reduction technologiesImage with the specific reduction redu		2	0	44	44	42	53	95	42	97	139
drudgery reduction technologiesImage with the second seco											
technologiesImage: second											
Rural Crafts Image: Constraint of the second s											
Women and child care100000000088896088896Others (pl specify) Nutritional management021343757847882Nutritional management021343757847882Post harvest management10008132181321Household Nutritional security02000000285684285684Total11055761138392530143449592VI Agril. Engineering221021301747511768maintenance2000805858058585											
care											
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		1	00	00	00	08	88	96	08	88	96
Nutritional management Image is a structure is a structu											
managementImagement <td></td> <td>02</td> <td>1</td> <td>3</td> <td>4</td> <td>3</td> <td>75</td> <td>78</td> <td>4</td> <td>78</td> <td>82</td>		02	1	3	4	3	75	78	4	78	82
Post harvest management10008132181321Household Nutritional security02000000285684285684Nutritional securityTotal11055761138392530143449592VI Agril. EngineeringFarm Machinery and its221021301747511768Installation and maintenance of micro irrigation20008058580585											
managementimagement <td></td>											
Household Nutritional security02000000285684285684Nutritional security		1	0	0	0	8	13	21	8	13	21
Nutritional securityImage: se											
$ \begin{array}{c c c c c c c c c c c c } \hline Total & 11 & 05 & 57 & 61 & 138 & 392 & 530 & 143 & 449 & 592 \\ \hline VI Agril. \\ Engineering & & & & & & & & & & & & & & & & & & &$		02	00	00	00	28	56	84	28	56	84
VI Agril. EngineeringImage: Second s											
EngineeringImage: constraint of the state in		11	05	57	61	138	392	530	143	449	592
Farm Machinery and its221021301747511768maintenanceInstallation and maintenance of micro irrigation20008058580585											
and its maintenance221021301747511768Installation and maintenance of micro irrigation20008058580585											
maintenanceImage: second s											
Installation and maintenance of micro irrigation20008058580585		2	21	0	21	30	17	47	51	17	68
maintenance of micro irrigation20008058580585	maintenance										
micro irrigation 2 0 0 0 80 5 85 80 5 85	Installation and										
micro irrigation	maintenance of	C	0	0	0	80	F	QE	80	F	95
systems	micro irrigation	2	U	U	0	60	5	60	00	5	60
	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	09	70	4	74	155	12	167	225	16	241
Integrated Disease		00	00	00	23	4	27	23	4	27
Management	02									
Bio-control of										
pests and diseases										
Production of bio										
control agents and										
bio pesticides										
Others (pl specify)										
Total										
VIII Fisheries										
	łł									
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	7	T	T		T					
carp hatchery										
Pen culture of fish		T								
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							
Apiculture							
Others (pl specify)							
Total	ļ	ļļ		 			
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					

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

Thematic area	No. of				Р	articipan	ts			
	courses		Others			SC/ST		Ģ	Grand Tot	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			l .		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								
	I			l	I	I	I	

value addition	[[]									
Others (pl specify)										
Total (d)										
e) Tuber crops Production and										
Management										
_										
technology Processing and										
value addition										
Others (pl specify)										
Total (e)	l									
f) Spices										
Production and										
Management										
technology										
Processing and										
value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and										
Aromatic Plants	ļ									
Nursery										
management	ļ									
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				1						
deficiency in crops										
Nutrient Use				1						
Efficiency										
Balance use of	<u> </u>			1						
fertilizers										
Soil and Water										
	2	EF	F	10	2	_	2	E 7	F	()
Testing	2	55	5	60	2	0	2	57	5	62

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)										
Total										
V Home										
Science/Women										
empowerment										
Household food	04	56	24	80	76	117	193	132	141	273
security by kitchen	04	50	24	00	/0	117	175	152	141	275
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	08	25	48	73	47	86	133	72	134	206
Women	03	00	44	44	42	71	113	42	115	157
empowerment										
Location specific					İ		İ			
drudgery reduction										
technologies										
		1		1	1		1	1	1	

Rural Crafts										
Women and child	04	18	01	19	126	104	170	84	192	276
care	01	10	01	.,	120	101	170	01	172	270
Others (pl specify)	02	1	3	4	3	75	78	4	78	82
Nutritional	02		5	-	5	75	70	-	70	02
management										
Post harvest	1	0	0	0	8	13	21	8	13	21
	1	0	0	0	0	15	21	0	15	21
management Household	01	00	00	00	28	56	84	28	56	84
	01	00	00	00	20	50	04	20	00	04
Nutritional security Total	24	100	120	220	347	525	812	387	732	1119
VI Agril.	24	100	120	220	347	525	012	307	132	1119
Engineering										
Farm Machinery and its	7	55	12	67	106	21	127	161	33	194
maintenance	/	55	12	07	100	∠ I	127	101	ు	194
Installation and										
maintenance of	3	0	0	0	101	5	106	101	5	106
micro irrigation										
systems										
Use of Plastics in										
farming practices										
Production of small										
tools and										
implements										
Repair and										
maintenance of										
farm machinery										
and implements										
Small scale										
processing and										
value addition										
Post Harvest										
Technology										
Others (pl specify)										
Total										
VII Plant										
Protection										
Integrated Pest										
Management	10	106	16	122	187	12	309	293	28	321
Integrated Disease	-				-					
Management	02	0	0	0	23	4	27	23	4	27
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	00	00	00	10	00	10	10	00	10
	01	00	00	00	03	16	19	03	16	19
Vermi composting	01	00	00	00	03	10	17	03	10	17
Total	UT									
VIII Fisheries										
Integrated fish										
farming										

				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									
	1		1	1	1	1	1	1	ı I

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	neral/ Ot	hers		SC/ST		Ģ	Frand 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										
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										
micro irrigation	3	25	20	45	45	5	50	70	25	95
systems										
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	12	0	12	26	2	28	38	2	40
farm machinery	2	12	0	12	20	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		0		Ŭ	52			02	5	00
systems										
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		Ċ	Grand Total			
	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)	-	_							-	-
Seed production										
Production of	2	8	0	8	22	5	27	30	5	35
organic inputs		_	-	_						
Planting material										
production										
Vermi-culture										
Mushroom	01	00	00	00	20	10	30	20	10	30
Production	01	00	00	00	20	10	50	20	10	50
Bee-keeping	01	10	00	10	20	00	20	30	00	30
Sericulture	01	74	0	74	50	00	50	124	0	124
	04	/4	0	74	50	0	50	124	0	124
Repair and										
maintenance of	3	12	0	12	46	2	48	58	2	60
farm machinery										
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. of	No. of Participants								
		General/Others			SC/ST			Grand Total		
	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	2	44	46	0	12	12	2	56	58
security	Z									
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.				N	o. of Partic	cipants			
Area of	of	Gene	General/Others SC/ST Gra					Frand Tot	al	
training	Cour ses	Mal e	Fem ale	Tot al	Male	Female	Total	Mal e	Femal e	Total
Productivity 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.				ļ	No. of Par	ticipants			
Area of	of	Gene	eral/ Ot	thers		SC/S	Г	Grand Total		
training	Cour	Mal	Fem	Tot	Mal	Female	Total	Mal	Femal	Tatal
	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	110	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	0	0.0	-	0.0	.	,		47		50
implements	2	23	5	28	24	6	30	47	11	58
Gender										
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	2	44	46	0	12	12	2	56	58
security	-									
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/ Of	hers		SC/ST	-	G	rand Tota	
	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, machinery, machinery, tools and machinery, implements machinery, Others (pl. machinery, specify) machinery, Total machinery, Livestock machinery,	
tools and implements Implements Imp	
implements Implements Others (pl. specify) Total	
Others (pl. specify) Image: specify in the specify in the specify in the specify in the specify in the specify in the specify in the specific sp	
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 GRAND]
TOTAL	

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	т	Gra	and Tota	
training	Cour	Mal	Fem	Tot	Mal	Fema	Total	Male	Femal	Total
	ses	е	ale	al	е	le	TOLAT	wate	е	Total
Crop										
production										
and										
management										
Commercial floriculture										
Commercial fruit										
production										
Commercial										
vegetable										
production										
Integrated										
crop										
management										
Organic	01	00	00	00	25	00	25	25	00	25
farming	01									
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									
bio-pesticides,										
bio-fertilizers										
etc.										
Repair and										
maintenance										
of farm										
machinery										
and										
implements										
Rural Crafts										
Seed	_		6	<u> </u>	22	6	22	22	6	22
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										

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

3.5. Extension Programmes

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

No.Interform implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)Programmes Programme Programm	S.	Activity Type	Mode of	Title of	No. of	No. of
ViewsViewsAFarmers trainingAFarmers trainingCoonferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)Image: Coonferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)AFarmers trainingImage: Coonferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)AFarmers trainingImage: Coonferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)AFarmers trainingImage: Coonferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)AFarmers trainingImage: Coonferencing / Facebook Live / YouTube Live / Zoom/ Google meet/ Webex etc.)BFarmers scientists Interaction programmeImage: Coonferencing / Image: Coonferencing / Programme1TotalImage: Coonferencing / Image: Coonferencing / ProgrammeImage: Coonferencing / Image: Coonferencing / Programme1TotalImage: Coonferencing / Image: Coonferencing / Coonferencing / Image: Coonferencing / Coonferencing / ProgrammeImage: Coonferencing / Image: Coonferencing / <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Audio Conferencing / Facebook Live / YouTube 				5		_
Conferencing / Facebook Live /YouTube Live/Zoom/ Google meet/ Webex etc.)Southamic Southamic Meeter Condense Meeter Condense 			conferencing /			
Facebook Live YouTube Live/Zoom/ Google meet/ Webex etc.)selectionAFarmers trainingIII1IIIII2IIIII2TotalIIII3IIIII4Farmers scientist's interaction programmeIIII1IIIIII2IIIIII3Farmers scientist's interaction programmeIIII1IIIIIII2IIIIIII3IIIIIII4IIIIIII5IIIIIII4IIIIIII5IIIIIII5IIIIIII6IIIIIII7IIIIIII7IIIIIII8IIIIIII9IIIIIII9I <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
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2Image: section of the sec	А	Farmers training				
3Image: section of the sec						
TotalImage: solutist's interaction programmeImage: solutistic programmeImage: solutistic programmeImage: solutistic programme1FotalImage: solutistic programmeImage: solutistic programmeImage: solutistic programmeImage: solutistic programmeImage: solutistic programme1Image: solutistic programmeImage: solutistic programmeImage: solutistic programmeImage: solutistic programme						
BFarmers scientist's interaction programmeImage: Scientist's interaction programmeImage: Scientist's interaction programmeImage: Scientist's interaction programmeImage: Scientist's interaction programmeImage: Scientist's interaction interactionImage: Scientist's interaction interactionImage: Scientist's interaction interactionImage: Scientist's interaction interactionImage: Scientist's interactionImage: Scientist's interaction </td <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td>	3					
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programmeImage of the second seco	В					
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3Image: second seco	1					
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specify)						
	E					
	1					

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

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

Production of seeds by the KVKs

Сгор	Name of the crop	Name of the variety	Name of the hybrid	Quantit y of seed (q)	Value (Rs)	Number of farmers
Cereals						
	Rice	Indrayani		4.80	28800	50
	Jawar	Dudhmojra		0.20	1200	20
Oilseeds						
Pulses						
. 0.000	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 Ekadashi	0.50	3000	25
Total			22.30	316000	447

Production of planting materials by the KVK

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

Total	175000 244600	196
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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 (PI. 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 cultivator	Mr.P C Kunde	100
Others (Pl. specify) Poster presentation	Backyard Nutrition Gardens; A Solution To Address Malnutrition	Mrs.Arati Deshmukh	01
TOTAL			

C. Details of Electronic Media Produced

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

D. Details of Electronic Media Produced

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

3.	Village, tehsil, district, state, KVK& nodal officer names	At. Aakrale tq. Nandurbar Dist. Nandurbar, Maharashtra, Krishi Vigyan Kendra, Nandurbar, Maharashtra			
		Nodal officer- Mr. P. C. Kunde			
4.	Intervention adopted on soil type	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	rotected monsoon RF after			
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	mber of fellow 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	Increases seed cost.			
1	feedback of First time	Hoeing is not possible after 60 DAS			
	farmers adopting HDPS/CS &	Vithal Variety is best suitable for the Dada Lad			
	new hybrids & any special	Technology (CS)			
	attainment that is noteworthy-				
	•	۸			

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





- 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		о	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 (Pl. specify)	FFS	1	0	
		Capacity development	5	2	
06	Publications				
	Video Films		2	0	
	Books		0	0	
	Book chapter				
	Extension Literature				
	Pamphlets				
	Others (PI. 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. No.	Programme	Nature of linkage	Funds received if any Rs.	Expenditure during the reporting period in Rs.	Constraints if any

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.	

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):

 Biofertilizers seed treatment found effective for good germination.
 Variety performed better for achieving growth and yield components compared to traditional variety.
 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.
 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 qt2.plant height is more ie demo plot 145cm and check plot 121 cm3.1000 grain wt in demp plot was 21.82 gm and check plot is 16.17 gm4.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 under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

C. Farmers-scientists interaction on livestock management

State	Livestock components	Number of interactions	
Total			

D. Animal health camps organized

State	Number of camps	No.of animals	No. of farmers
Total			

E. Seed distribution in drought hit states (Seed distribution/sold by KVK)

State	Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total				

F. Large scale adoption of resource conservation technologies

State	Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers

Total		

G. Awareness campaign

Stat e	Mee	etings	Gosthies		Field days		Farmers fair		Exhibition		Film show	
	N o.	No. of farme rs	N o.	No. of farme rs	N o.	No. of farme rs	N o.	No. of farme rs	N o.	No. of farme rs	N o.	No. of farme 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 inco	ome (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

Name of	Message Type	Type of Messages								
KVK		Cr	Lives	Wea	Marke	Aware	Other	Total		
		ор								

						rise	
Text only	72 8	728	728	-	124	-	2308
Voice only	72 8	728	728	-	106	-	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	-	19427	-	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	a)	Details	s of product	tion	Amou	Remarks	
of the crop	sowing	harvest	Ъ,	Variety	Type of	Qty.	Cost	Gross	
			ea		Produce		of	income	
			Ar				inputs		
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	8.50	12300	63750	
Cotton	23.06.23	15.12.23	0.20	Shakti	Seed	4.50	11700	33750	
Cotton	25.06.23	23.11.23	0.40	Super coat	Seed	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	ops							
Floriculture									
Tioneantare									
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									
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	ty Amount (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	of production		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 stayed	Trainee days (days stayed)	Reason for short 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 conducted					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	Duration	uration No. of participants						
	KVKs/SAUs/IC	QP/Job	(hrs)	SC	SCs/STs		s/STs 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	14.00.00
Deshmukh	SMS Home	visit	Aurangabad		14.02.23
	science		кук &		to
	00.01.00		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	SMS Home	Millet SHG	MAVIM,	Offline	21.03.23
Deshmukh	science	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.	Кеу	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. No.	Name of the programme	No. of villages adopted	Key activities performed	No. of activities carried out	No. of families covered

20. Details of Progress of ARYA Project

Name	No of Trainin	No of Beneficia	No of	No of Beneficia	No of Unit	Chang inco	-	No. Of
of Enterpr ise	g Conduc ted	inin ries ion	ion Activiti	ries	establis hed	Befo re	Aft er	Grou 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 KVK	Date	Activity	No of VIPs	No of Farmers	Others	Total
1	Nandurbar	2 oct to 31 oct 2023	Awareness programme	0	740	100	840
2	Nandurbar	2 oct to 31 oct 2023	Swachatta otha	0	440	125	565
3	Nandurbar	Nov 2023	Awareness porgramm on swachata	0	220	50	270
4	Nandurbar	Dec 2023	Awareness porgramm on swachata and otha	2	480	150	532

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

		Type of Messages						
Name of KVK	J	Сгор	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	