ANNUAL PROGRESS REPORT - 2022

(January - December)



Director, ICAR-ATARI, Zone-VIII, Pune.



Submitted by

Sr. Scientist & Head
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INDEX

Sr.No.	Particular Particular	Page No.
01	General information about the KVK	03
02	Staff Position as on December 2022	04
03	Total Land with KVK and Infrastructure of KVK	05
04	Details of District / Jurisdiction area of KVK	06-09
05	Technical Achievements	10-13
06	On Farm Trial (OFT)	14-33
07	Front Line Demonstrations (FLD)	34-43
08	Training programmes	45-60
09	Extension activities	63
10	Production of Seeds, Planting Material, Bio products and Livestock	64-65
11	Literature developed	65-66
12	Success Story/ Case study	67-81
13	ITK	82
14	Linkages	84-85
15	Technical feedback from farmers and KVK Scientist on technology assessment and demonstration	87-88
16	Impact and Kisan Mobile advisory services	89
17	Performance of Infrastructure in KVK	90-92
18	Financial Performance	93-94
19	HRD activities and Details of SAP	94-96
20	Summary of Annual Progress Report 2022	97-98

ICAR-ATARI, Pune DETAILS OF ANNUAL PROGRESS REPORT OF KVKs DURING 2022 (January 2022 to December 2022)

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, Pokharni,	Office	FAX	kvk nanded@	<u>www.kvknanded.c</u>
Purna Road, Nanded (MS) Pin code-431 735	8975899504		yahoo.co.in	<u>om</u> Hits: 41198

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

Address	Telephone		E mail	Website address
	Office	FAX		
Jawaharlal Nehru Institute of				
Education, Science and Technological	02462 -		leede mandad@eeahaa aa in	
Research Trust, Nanded 1, HIG,	253643		kvk_nanded@yahoo.co.in	www.kvknanded.com
Colony, Near ITI, Nanded (MS)				

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

Name	Telephone / Contact		
Dr. Devikant Amrutrao Deshmukh	Office	Mobile	Email
	8975899504	9423140598	drdad1976@gmail.com

1.4. Date and Year of sanction: 1993

1.5. Staff Position (as on December, 2022)

GI.		N 6.1	Mobile No.		If Permane indic			If Temporary, pl. indicate the
Sl. No.	Sanctioned post	Name of the incumbent		Discipline	Current Pay Band	Current Grade Pay	Date of joining	consolidated amount paid (Rs./month)
1.	Senior Scientist and Head	Vacant						
2.	Subject Matter Specialist	Dr. Deshmukh D. A.	9423140598	Horticulture	15600-39100	5400	20/01/2009	Permanent
3.	Subject Matter Specialist	Vacant		Home Science				
4.	Subject Matter Specialist	Mr. Kalyankar M. G.	9421569640	Plant Protection	15600-39100	5400	04/07/2011	Permanent
5.	Subject Matter Specialist	Mr. Jaybhaye S. H.	8669125394	Agronomy	15600-39100	5400	01/07/2013	Permanent
6.	Subject Matter Specialist	Dr. Ambore M. N.	9423140163	Veterinary science	15600-39100	5400	01/07/2013	Permanent
7.	Subject Matter Specialist	Dr. Deshmukh G. P.	9890909666	Agricultural Extension	15600-39100	5400	15/12/2014	Permanent
8.	Jr. Clerk	Ms. Hadoltikar P S	9860738151	Clerk	5200-20200	2000	02/06/2003	Permanent
9.	Computer Programmer	Mr. Wadile R. T.	9960438725	Computer	9300-34800	4200	06/07/2011	Permanent
10.	Farm Manager	Mr. Ingole R. R.	8668672867	Farm manager	9300-34800	4200	01/07/2013	Permanent
11.	Accountant/Superintendent	Mr. Bhalerao A. G.	7558647090	Accountant	9300-34800	4200	01/07/1995	Permanent
12.	Stenographer	Mr. Jadhav S. S.	8087901897	Stenographer	5200-20200	2400	01/08/2007	Permanent
13.	Driver 1	Mr. Wathore M. S.	9890601279	Driver	5200-20200	2000	06/05/1997	Permanent
14.	Supporting staff 1	Mr. Gaikwad S. S.	7875002314	Peon	5200-20200	1800	01/07/1995	Permanent
15.	Supporting staff 2	Mr. Konapure S. R.	9860065596	Watchman	5200-20200	1800	01/07/1995	Permanent
16.	Supporting staff 3	Mr. Kadam D. R.	9028910656	Messenger	5200-20200	1800	02/04/2009	Permanent

1.6. Total land with KVK (in ha):

S. No.	Item	Area (ha)
1	Under Buildings	01
2.	Under Demonstration Units	1.4
3.	Under Crops	11.7
4.	Horticulture	5.9
5.	Pond	0.20
6.	Area under crop, Fodder Museum	01
	Total	21.2

Infrastructural Development: Buildings 1.7.

A)

11)	Dunuings							
S.		Source			Stage	2		
No	Name of building	of funding		Complete		Incomplete		
110	Traine of building	runung	Completion		Expenditure			Status of
ļ			Year	(Sq.m)	(Rs.)	g year	(Sq.m)	construction
1.	Administrative Building	ICAR	31.03.1999	2272.73	36,14,539/-	1998		Complete
2.	Farmers Hostel	ICAR	31.03.2005	308.02	24,23,000/-	2003		Complete
3.	Staff Quarters	ICAR	31.03.2007	380.14	30,34,000/-	2006		Complete
4.	Fencing	ICAR	30.03.1999	120.23	1,05,000/-	1999		Complete
5	Rain Water harvesting system	-	-	-	-	-	-	-
6	Threshing floor	-	-	-	-	-	-	-
7	Farm godown	-	-	-	-	-	-	-
8	Soil and water testing lab	ICAR	31.12.2004	34.83	5,40,000/-	2004	-	Complete
9	Mini soil testing Kit	ICAR	2017	-	90,300/-	1996	-	Complete
10	Demonstration Units(2)	ICAR	31.03.1997	3060.45 Sq.ft	12,42,661/-	1996		Complete

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Running	Present status
Tractor	2003	4,50,000/-	7103 hrs	Good
Motorcycle	1996	43,804/-		Scraped
Bolero Jeep (New)	Dec 2019	7,13,368/-	51073 km	Good
Bolero jeep (old) Condemned	Sold date:24/02/2020	Sold cost:		Sold
		91,000/-		

C) Equipment& AV aids

Name of the equipment / Implements	Year of purchase	Cost (Rs.)	Present status
Zenith Camera	1995	4,950/-	Good
Kodak Camera	1997	800/-	Good
Television	1996	14,240/-	Good
Slide and Overhead Projector	1996	31,925/-	Good
Furniture	1995	64,195/-	Good
Bench	2005	1,00,000/-	Good
Typewriters	1995	22,560/-	Good
Computer With printer etc	2000	54,850/-	Good
Chairs	2000	22500/-	Good
Fans	2000	2,440/-	Good
Soil and Water Testing Lab	2004	5,40,000/-	Good
Fax Machine	2006	15,000/-	Good
Mridaparikshak Mini Lab	2015	75,000/-	Good
GPS machine	2017	15000/-	Good
Video Conference System (LCD Screen, Computer with	2020	55000/-	Good
LCD screen, Web Camera, UPS Battery, Audio mice			

1.8. Details of SAC meeting conducted in the year:

Date	Name and Designation of Participan	ts Salient Recommendations	Action taken

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	Agriculture + Horticulture.
2	Agriculture + Siliviculture.
3	Agriculture + Dairy.
4	Agriculture + Vegetables.
5	Horticulture. + Animal Husbandry. + Agriculture.
6	Agriculture + Animal Husbandry.

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

topog	rapny)	
S.	Agro-climatic	Characteristics
No.	Zone(Planning Commission)	
1	Central Vidarbha moderate Rainfall	Rainfall of 1,200 mm/year well distributed within the S-W monsoon months. Maximum temperatures of 35-40 degrees Celsius in the summer. Humidity of about 75% in the rainy season. Soils are black derived from basalt rock, medium to heavy texture, and generally Fertile. Cropping patterns involve cotton, sorghum, pulses, wheat and oilseeds.
	Moderate to Moderately High Rainfall Zone (Central Maharashtra Plateau Zone)	Large plateau covering the central part of the state. Well distributed rainfall of 700 to 900 mm/year dictated by the S-W monsoon. Summer temperature will reach about 40 degrees Celsius. Soils are vertisoils and entisoils varying from medium black to reddish brown. Sorghum is the most important crop, but cotton, oilseeds, millet, groundnut, pulses and sugarcane occupy significant areas.

a)Topography

Nanded District mainly consists of plain areas with small hills and granite boulders. The land is mainly utilized for agricultural purpose. The Agricultural area is 1033114 hectars and the forest area is 91748 hectares. There are ten small rivers with Godavari, Manjra, Manyad, Penganga being the main rivers. The overall climate is dry and temperature in summer goes up to 40 degree and above. The average rainfall is around 450 mm.

2.3 Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Shallow black Soil	Depth 15-20 cm	576.26
2	Medium deep black Soil	More calcium & carbonate percentage	101.12
3	Deep black	High soil moisture, holding capacity	394.65

The black cotton soil in the district is rich in calcium, magnesium and carbonates, but poor in Nitrogen, Potassium and Phosphorous. It has a high moisture and humidity retention capacity. The river basin of Godavari, Mangurd, Mongia and Penganga has deep and good quality soil along the banks. The soil near hilly areas is lanterate and mixed with stone.

2.4. Area, Production and Productivity of major crops cultivated in the area of jurisdiction of KVK (2022)

S. No	Crop	Area (00 ha)	Production (00 MT)	Productivity (Kg/ha)
	Major Field crops			
1	Kharif Sorghum	189.59	10960.08	436.51
2	Pigeon pea	694.84	63920.28	802.10
3	Green gram	232.52	10446.19	439.16
4	Black gram	221.68	10607.74	488.75
5	Soybean	4473.97	530645.59	789.67
6	Cotton	1822.79	27.18	903.39
7	Rabi Sorghum	264.57	282.64	980.0
8	Wheat	416.93	508.11	1275
9	Chick pea	2772.97	2721.29	973.9
10	Safflower	52.38	26.33	716.25
11	Summer groundnut	117.26	155.64	1327.3
12	Summer Sesamum	33.06	-	_
13	Sugarcane	359.43	21565.80	60.0
Major H	orticultural crops			
1	Turmeric	200.0		
2	Banana	70.0		
3	Vegetables & fruit	60.0		

Source:

2.5. Weather data (2022)

Month	Normal	Normal Rainy	Tempera	ture (⁰ C)	Relative Humidity %		
Month	RF(mm)	days (number)	Maximum Minimum		B.N.	A.N.	
May	17	02	40.5	28.1	55	32	
June	83.8	06	38.3	26.7	81	54	
July	827.8	23	30.2	23.7	97	91	
August	234.0	09	31.3	23.2	95	86	
September	237.0	10	31.1	22.5	96	84	
October	112.4	07	31.5	20.4	95	80	
November	0	00	30.7	13.4	83	51	
December	1.4	01	30.6	15.9	89	60	
Total	1513.4	58					
Seasonal Total	1495.4	55					
Seasonal average/ Total	910.9	44.87					

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

Category	Population (No)	Production	Productivity
Cattle			
Crossbred	14014	137.53 lakh kg	981 kg/year
Indigenous	269246	1024.39 lakh kg	380 kg/year
Buffalo	234100	1308.72 lakh kg	559 kg/year
Sheep	76893	16.45 MT wool	_
Goats	318564	54.81 lakh kg	17.20 kg/animal
Pigs			
Crossbred	-		
Indigenous	6529		
Rabbits	-		
Poultry			
Hens (Crossbred)	50251	85.43 lakh egg	170 eggs/bird
Desi	132368	88.89 lakh egg	67 eggs/bird

2.7. Details of Operational area / Villages

2.7. Details of Operational area		Villages							
Taluka / Block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas					
Bhokar	Hadoli	Soybean, cotton, turmeric, Bengal gram, Agriculture, Horticulture, Animal Husbandry	Lack of knowledge, adoption of improved variety	Horticulture, Agriculture					
Mudkhed	Pimpalgaon magre	Turmeric & Banana	 Sowing of Cotton in light soil &rainfed situation. Management practices (wider spacing, Seed treatment, No proper gap filling and Protective irrigation at critical stages). Imbalance nutrient management (Soil test Based Fertilizer application Inadequate & low Quality organic matter used). Improper Pest, diseases management. 	 Method, quantity & time of fertilizer application. Integrated Nutrient Management. Integrated pest & diseases management. 					
Ardhapur	Bhogan	Soybean	 Unawareness about New variety. No use of good utility Seed. Imbalance nutrient management (No use of 2%foliar spray of Urea) Improper Pest, diseases management. 	 Integrated Nutrient Management. Proper Pest & Diseases management. 					
Bhokar	Bember	Red gram/green gram/black gram	Imbalance nutrient Management Excess Urea Application Improper pest & disease management	 Integrated Nutrient Management. Foliar Application of 2% Urea Integrated Pest & Diseases management. 					
Hadgaon	Sapti	Soybean	 Low yield due to use of traditional crop varieties. Improper Sowing time Imbalance nutrient Management. 	 Importance of new high yielding varieties. Nutrient management. 					
Nanded	Pimpalgaon Nimji, Daryapur, Warkhed, Wanegaon	Groundnut, Chick pea	Unawareness about New Technology Secondary and micronutrient deficiencies.	 BBF or Polyethelin Mulching Nutrient Management. Proper Pest & Diseases management. 					
Ardhapur	Lone, Lahan	Sugarcane, Banana, Soybean, cotton, turmeric, Agriculture, Horticulture, Animal Husbandry	Chlorosis content water, Adoption of micro irrigation	Animal Husbandry, Agriculture					
Kinwat	Islapur	Red gram, Green gram, Black gram, Soybean, Bengal gram	Lack of Knowledge on improved variety, Less awareness about seed treatment	Agriculture					

2.8. Priority thrust areas:

Sr.	Discipline	Thrust area
No.		
1	Agronomy	Integrated Crop management, Integrated Nutrient Management, Resource conservation technology, Weed management, Crop
		diversification, Integrated farming and Seed production.
2	Horticulture	Nursery management, Off season vegetable, Protective cultivation, Training and Pruning, Cultivation of Fruit, Management of
		young plants/orchards, Propagation techniques of Ornamental Plants, Processing and value addition, Planting material production.
3	Plant protection	Integrated Pest Management, Integrated Disease Management, Bio-control of pests and diseases, Production of bio control agents
		and bio pesticides, Bio-pesticides production, Bio-fertilizer production, Sericulture.
4	Home Science	Household food security by kitchen gardening and nutrition gardening, Design and development of low/minimum cost diet,
		Designing and development for high nutrient efficiency diet, Minimization of nutrient loss in processing, Gender mainstreaming
		through SHGs, Storage loss minimization techniques, Value addition. Income generation activities for empowerment of rural
		Women, Location specific drudgery reduction technologies, Women and child care.
5	Veterinary science	Dairy Management, Poultry Management, Gotary management, Disease Management, Feed management, Production of quality
		animal products, Production of livestock feed and fodder.
6	Agricultural	Group dynamics, Leadership development, Formation and Management of SHGs, Mobilization of social capital, Entrepreneurial
	extension	development of farmers/youths, WTO and IPR issues, Small scale processing, Information networking among farmers, Capacity
		building for ICT application.

3. TECHNICAL ACHIEVEMENTS

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

	0	FT		FLD				
		1		2				
Number of OFTs		Number of farmers		Number of FLDs		Number of farmers		
Targets	Achievement	Targets	gets Achievement Targets Achievement Targ		Targets	Achievement		
19	08	355	60	21	13	259	305	

Training				Extension Programmes				
		3		4				
Number of Courses		Number of Participants		Number of Programmes		Number of participants		
Targets	Achievement	Targets	Achievement	Targets Achievement		Targets	Achievement	
131	162	3718	6224	377	302	1947	6499	

Seed	Production (Qtl.)	Planting materials (Nos.)			
	5	6			
Target	Achievement	Target	Achievement		
140	195	184000	2500		

Livestock, poultry str	nins and fingerlings (No.)	Bio-products (Kg)			
	7	8			
Target	Achievement	Target	Achievement		
25	04	4700	6161		

3.1. B. Operational areas details during 2022

S.	Major crops &	Prioritized problems in these crops/ enterprise	Extent of	Names of Cluster	Intervention
No	enterprises being		area (ha/No.)	Villages identified	(OFT, FLD,
	practiced in		affected by	for intervention	Training,
	cluster villages		the problem		extension activity
			in the district		etc.)*
1	Red gram	No use of improved variety, It's due to low productivity, Low productivity under rainfed, No use of seed treatment, Wilting problem.	7000 ha	Rahati, Tq.Nanded	OFT, Training
	C 1	, , ,	2000 ha	D 11 1:	OFT Tarining
2	Soybean	Due to uncertainty of rainfall, Less branching, Stunted crop growth,	2000 na	Pandharwadi,	OFT, Training
		Less flowering, Pods besides low gains weight, Low yield, Uncertainty		Tq.Mudkhed	
	C 1	rainfall situation, Nutrient uptake is very less in dry spell situation.	10001	C 1 1: T	PLD T
	Soybean		1000 ha	Samundarwadi Tq. Bhokar	FLD, Training
3	Dairy	Low milk yield, Longer inter calving period, Fodder scarcity, Mastitis,	862024 (No.)	Rui, Thakarwadi,	OFT, Training
		Heat detection.		Hadgaon	
4	Sheep and Goat	Poor growth rate, Mineral deficiency, High mortality	294475 (No.)	Halda, Bhokar	FLD, Training,
					Vaccination camp,
					Extension activity
5	Backyard poultry	Less income from backyard poultry farming	461485 (No.)		OFT, Training
6	Fodder	Low yield of green fodder			OFT, Training
7	Red gram	Heavy incidence of <i>Helicoverpa</i> , Improper <i>Helicoverpa</i> management	4200 ha	Rahati,	FLD, Training
		besides Increases cost on plant protection			
8	Soybean	Observed heavy incidence of defoliator pest and girdle beetle	950 ha		FLD, Training
9	Cotton	Heavy incidence of Whitefly and Pink bollworm			OFT, Training
10	Turmeric	Heavy losses due to White grub			FLD, Training
11	Sericulture	Silkworm maturation lasts for 2-3 days, In winter season it may extend			OFT, Training
		further, Incurring extra expenditure.			
12	Maize	Heavy incidence of Fall army worm			OFT, Training
13	Chick pea	Incidence of wilt, Incidence of Rust, Heavy incidence of Helicoverpa,			FLD, Training
		Improper Helicoverpa management besides Increases cost on plant			
		protection			
14	Turmeric	Small Size of Rhizome, Long Duration of Variety, Less curcumin %,	7200 ha	Bhosi, Pokharni	OFT, Training
		Less Dry recovery, Less Average yield (kg/ha).			
15	Vegetable	High incidence of pest & disease at early stage	360 ha	Bhogaon, Bhokar	FLD, Training
16	Tomato	Leaf curl virus, Leaf Blight, Tuta absulata	200 ha	Kamtha,	FLD, Training
				Vasantwadi	

3.2. Technology Assessment (Kharif 2022, Rabi 2021-22, Summer 2022) A1. Abstract on the number of technologies assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantatio n crops	Tuber Crops	TOTAL
Integrated Nutrient Management										
Varietal Evaluation		01	01	01			01			04
Integrated Pest Management									-	-
Integrated Crop Management										
Integrated Disease Management			01							01
Small Scale Income Generation Enterprises										
Weed Management										
Resource Conservation Technology			01							01
Farm Machineries										
Integrated Farming System									ŀ	I
Seed / Plant production									-	
Value addition										
Drudgery Reduction									I	1
Storage Technique									-	-
Mushroom cultivation										
Total		01	03	01			01			06

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

Thematic areas	Cattle	Poultry	Piggery	Rabbitry	Fisheries	TOTAL
Evaluation of Breeds		01				01
Nutrition Management						
Disease of Management	01					01
Value Addition						
Production and Management						
Feed and Fodder						
Small Scale income generating enterprises						
TOTAL	01	01				02

B. Achievements on technologies Assessed B.1. Technologies Assessed under various Crops

Thematic areas	Crop	Name of the technology assessed	No. of trials	Number of farmers	Area in ha (Per trial covering all the Technological Options)
Varietal Evaluation		Assessment of improved variety of soybean with local variety to increase productivity in black cotton soil	05	05	02
	_	Assessment of improved variety of Pigeon pea as compared to local under protective irrigation for increase productivity	05	05	02
	Tuberos e	Evaluation of hybrid Arka Prajwal of Tuberose on light soils.	05	05	01
	Turmeri c	Assessment of New Variety of Turmeric IISR Pragati and PTS-10 Vs Salem	10	10	02
Integrated Disease Management		Assessment of use of ridomil MZ fungicide for the management of Phytopthora stem blight in Pigeon pea	10	10	04
Resource Conservation Technology	Chick pea	To assess the sowing of chickpea on BBF in three row with two protective irrigation for increasing productivity	05	05	02
Total			40	40	13

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	Poultry	Assessment of Kaveri birds for backyard poultry	10	10
Disease management	Cattle & Buffalo	Assessment of different preventive majors for sub clinical mastitis in dairy animals	10	10
Total			20	20

C. 1. Results of Technologies Assessed Discipline - Agronomy Results of On Farm Trial - 1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	refinement
1	2	3	4	5	6	7	8	9	10	11	12
Soybean	Rainfed	1) low productivity 2)No availability of improved variety seed 3) pod shattering 4)crop losses by high rainfall during harvesting 5) pod blight disease problem	Assessment of improved variety of soybean with local variety to increase productivity in black cotton soil	05	T1- Farmers practices: variety of JS -335 T2 - Assessed-Improved variety of MAUS-612	Plant height (cm) Pest and diseases Occurrence % No. of pod/plant No. of branches Yield qt/ha Plant height (cm) Pest and diseases Occurrence % No. of pod/plant No. of pod/plant No. of pod/plant No. of branches Yield qt/ha	46.40 11.5 76.53 6.33 22.25 45.33 8.60 95.40 7.61 24.87	28.75 qt/ha, No. of branches 8.40 per plant with BC ratio of 3.17 as against variety of MAUS- 612 with	612 is to be sustain in heavy rainfall during maturity stage. It is high no. of		
					T3 - Assessed - Improved variety of KDS-726 (Phule	Plant height (cm) Pest and diseases Occurrence %	9.12	number of pods/plant - 95.40 and Grain yield of 27.87	branches and no. of pod. It is MAUS- 612		

		Sangum)	No. of	120.45	qt/ha, No.	resistant to	
			pod/plant		of branches	yellow	
			No. of	8.40	7.61 with	vein	
			branches		BC ratio of	mosaic	
			Yield qt/ha	28.75	2.75.and	virus & it	
			•		Farmer	is also	
					practice	suitable	
					variety of	dry	
					JS-335	situation.	
					with	KDS-726	
					number of	variety is	
					pods/plant	susceptible	
					-76.53	to during	
						dry spell	
					yield of	situation.	
					22.25		
					qt/ha, No.		
					of branches		
					6.33 with		
					BC ratio of		
					2.40.		

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)- variety of JS -335		22.25	Q/ha	65000	2.40
Technology option 2- MAUS-612	VNMKV Parbhani	24.87	Q/ha	79250	2.75
Technology option 3- KDS-726 (Phule Sangum)	MPKV Rahuri	28.75	Q/ha	98450	3.17

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: Assessment of improved variety of soybean with local variety to increase productivity in black cotton soil
- **2. Problem Definition :** 1) Low productivity. 2)No availability of improved variety seed. 3) Pod shattering.
 - 4) Crop losses by high rainfall during harvesting. 5) Pod blight disease problem
- 3. Details of technologies selected for assessment:
 - T1- Farmers practices: variety of JS -335.
 - T2 Assessed- Improved variety of MAUS-612.
 - T3 Assessed -Improved variety of KDS-726 (Phule Sangum).
- 4. Source of technology: VNMKV Parbhani, MPKV Rahuri.
- 5. **Production system and thematic area:** Varietal trial
- 6. **Performance of the Technology with performance indicators:** The result showed that the cultivation of varieties KDS-726 gave higher number of pods/plant 120.45, Plant height 65.66 cm, Grain yield 28.75 qt/ha, No. of branches 8.40 per plant with BC ratio of 3.17 as against variety of MAUS-612 with number of pods/plant 95.40, Plant height 45.33 cm and Grain yield of 27.87 qt/ha, No. of branches 7.61 with BC ratio of 2.75.and Farmer practice variety of JS-335 with number of pods/plant 76.53, Plant height 46.40 cm and Grain yield of 22.25 qt/ha, No. of branches 6.33 with BC ratio of 2.40.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: KDS-726 is long duration variety upto 115 day. It is high yielding variety 34% more yield than JS-335. The variety of MAUS-612 is to be sustain in heavy rainfall during maturity stage. It is high no. of branches and no. of pod. It is MAUS-612 resistant to yellow vein mosaic virus & it is also suitable dry situation. KDS-726 variety is susceptible to during dry spell situation.
- **8. Final recommendation for micro level situation:** The Variety of KDS-726 is suitable for irrigated and heavy black cotton soil. It is no observing pod shattering problem. If the variety KDS-726 sown on BBF or ridg and furrow method gave higher yield. The variety of MAUS-612 is suitable for dry situation as well as it is sustain in heavy rainfall during maturity stage.
- 9. Constraints identified and feedback for research: It's observed higher no. of branches and no. of pod per plant but it is not sustain during dry spell situation. KDS-726 variety is susceptible for yellow vein mosaic virus. Its required more distance in between row to row for higher yield as compare to other variety.
- 10. Process of farmers participation and their reaction: Assessment has been taken as per problem diagnosed, after that village-wise meeting was conducted for selection of farmers. After selecting farmers, training has been given and made aware about complete procedure for assessment. Regular visit of farmers were arranged and necessary suggestions were given to farmers.

C. 1. Results of Technologies Assessed Discipline - Agronomy Results of On Farm Trial - 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Pigeon pea	Irrigated	1) No use of improved variety 2) Low productivity. 3) No use of seed		05	T1 - Farmers practice Variety- BSMR 736 T2- Assessment Variety of BDN-716 T3- Assessment - BDN-13-41 (Godavari)	Plant height (cm) No. of pods / Plant No. of branches Yield Q/ha C:B Ratio Plant height (cm) No. of pods / Plant No. of branches Yield Q/ha C:B Ratio Plant No. of Plant No. of Plant No. of branches Yield Q/ha C:B Ratio Plant height (cm) No. of pods / Plant	173.2 270 12.56 13.75 3.42 171.2 340 11.2 17.5 4.43 165.5	The result showed that the cultivation of varieties BDN-13-41 gave higher number of pods/plant 410, Grain yield 21.25 qt/ha with	It is high yielding variety 30% more yield than BDN-716.		-
					(23441411)	No. of branches Yield Q/ha	11.99 21.25	– 340 and Grain yield of 17.5	in one time of maturity. The		

	C:B Ratio	5.34	qt/ha with	variety of	
			BC ratio of		
			4.43.and	is	
			BSMR-736	susceptible	
			with	to wilt in	
			number of	this year	
			pods/plant	but less	
			– 270 and	than	
			Grain yield	BSMR	
			of 13.75	736.	
			qt/ha with		
			BC ratio of		
			3.42.		

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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) Variety- BSMR 736		13.75	Q/ha	68110	3.42
Technology option 2- Variety of BDN-716	VNMKV Parbhani	17.5	Q/ha	94850	4.43
Technology option 3 - BDN- 13-41 (Godavari)	VNMKV Parbhani	21.25	Q/ha	120900	5.34

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:** Assessment of improved variety of Pigeon pea as compared to local under protective irrigation for increase productivity.
- **2. Problem Definition:** 1) No use of improved variety. 2) Low productivity. 3) No use of seed treatment. 4) Wilting problem.
- 3. Details of technologies selected for assessment:

T1 - Farmers practice Variety- BSMR 736

T2: Technology Assessed: Variety of BDN-716.

T3 - Technology Assessed: Variety of BDN-13-41 (Godavari)

- 4. Source of technology: VNMKV Parbhani.
- 5. **Production system and thematic area:** Varietal trial.
- 6. **Performance of the Technology with performance indicators:** The result showed that the cultivation of varieties BDN-13-41 gave higher number of pods/plant 410, Grain yield 21.25 qt/ha with BC ratio of 5.34 as against variety of BDN 716 with number of pods/plant 340 and Grain yield of 17.5 qt/ha with BC ratio of 4.43 and BSMR-736 with number of pods/plant 270 and Grain yield of 13.75 qt/ha with BC ratio of 3.42.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques: It is high yielding variety 30% more yield than BDN-716.Red colour seed. It is high no. of branches and no. of pod. It is resistant to wilt disease Escape terminal drought. It's given in one time of maturity. The variety of BDN 716 is susceptible to wilt in this year but less than BSMR 736.
- **8. Final recommendation for micro level situation:** it's suitable variety in rainfed as well as irrigated. Red color seed variety most of farmers are prefer for cultivation its suitable for that region. It can be recommended for farmer cultivation in major area. No wilting problem.
- 9. Constraints identified and feedback for research: It's observed higher no of branches and no of pod per plant but it is less plant height as compared to BSMR-736. It's required one irrigation during flowering and pod development in dry spell situation. In BDN 716 variety of red gram is observed wilting problem in this year but less percent as compared to BSMR-736.
- 10. Process of farmers participation and their reaction: Assessment has been taken as per problem diagnosed, after that village-wise meeting was conducted for selection of farmers. After selecting farmers, training has been given and made aware about complete procedure for assessment.

 Regular visit of farmers were arranged and necessary suggestions were given to farmers.

C. 1. Results of Technologies Assessed Discipline - Agronomy Results of On Farm Trial - 3

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refineme nt needed	Justificati on for refinemen t
1	2	3	4	5	6	7	8	9	10	11	12
Chick pea	Irrigated	1) Low productivity 2) Lack of irrigation facilities during critical stages. 3) Wilting. 4) Irrigation to crop at improper growth stage. 5) Traditional methods of sowing.	To assess the sowing of chickpea on BBF in three row with two protective irrigation for increasing productivity	05	T1- Farmer practice: normal sowing (Flat bed). T2- Assessed Improved technology - Sowing of chickpea on ridge furrow. T3- Assessed - Sowing of chickpea on BBF in	Plant height(cm) No. of pods / Plant No. of branches No. of root nodules Yield Q/ha Plant height(cm) No. of pods / Plant No. of branches No. of root nodules Yield Q/ha Plant No. of pods / Plant No. of pods / Plant height(cm) No. of root nodules Yield Q/ha Plant height(cm) No. of pods / Plant	8 47.6 86.5 30.12 37.3 18.4 54.8 118 35.7 42.40 25.75 54.9 120.2 38.06 45.30 26.10	The result showed that Plant height is also found	This sowing method saved 50% seed. This method is suitable in low land area. This sowing method gives good yield as well as economically feasible compare other methods of sowing of chick pea. The BBF sowing method significantly increase yield as well as yield attributing traits of the crops and also net return of farmers. It is due to less infestation of pest & diseases.	-	-

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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) normal sowing (Flat bed).		18.4	Q/ha	57020	2.40
Technology option 2- Sowing of chickpea on ridge furrow	VNMKV Parbhani	25.75	Q/ha	96975	3.45
Technology option 3- Sowing of chickpea on BBF in three row	VNMKV Parbhani	26.10	Q/ha	99330	3.54

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:** To assess the sowing of chickpea on BBF in three row with two protective irrigation for increasing productivity
- **2. Problem Definition:** 1) Low productivity. 2) Lack of irrigation facilities during critical stages. 3) Wilting. 4) Irrigation to crop at improper growth stage. 5) Traditional methods of sowing.
- 3. Details of technologies selected for assessment:
- T1- Farmer practice: normal sowing (Flat bed).
- T2- Assessed improved technology Sowing of chickpea on ridge furrow.
- T3- Assessed -Sowing of chickpea on BBF in three row.
- 4. **Source of technology:** VNMKV Parbhani.
- **5. Production system and thematic area:** Resource Conservation Technology.
- 6. **Performance of the Technology with performance indicators:** Result shows that the average plant height, number of branches, number of pod per plant, root nodulation were higher in BBF sowing method as compare to flat sowing. Plant height, Branches per plant & pods per plant influence significantly due to above adopted planting method and remain largely unaffected due to different seed rate. As a result highest plant height (at par with 54.9 cm and 54.8 cm) was observed in BBF and ridge and furrow planting method. This was significantly higher over that in flat bed (47.6 cm). However branches per plant and pod per plant was highest in 38.06 and 120.2 respectively BBF method.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

This sowing method saved 50% seed. This method is suitable in low land area. This sowing method gives good yield as well as economically feasible compare other methods of sowing of chick pea. The BBF sowing method significantly increase yield as well as yield attributing traits of the crops and also net return of farmers. It is due to less infestation of pest & diseases.

8. Final recommendation for micro level situation: The BBF sowing method of Chick pea as well as ridge and furrow sowing method technology is a need to disseminate the improve technology among the farmers for getting the higher yield and net return. This method is suitable for easy to irrigation.

- **9. Constraints identified and feedback for research:** This method is not suitable in light soil. Ridge and furrow method required more labour for planting.
- 10. Process of farmer's participation and their reaction: Assessment has been taken as per problem diagnosed, after that village-wise meeting was conducted for selection of farmers. After selecting farmers, training has been given and made aware about complete procedure for assessment. Regular visit of farmers were arranged and necessary suggestions were given to farmers.

C. 1. Results of Technologies Assessed Discipline – Plant Protection Results of On Farm Trial - 1

Crop/ enterpr ise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameter s of assessment	Data on the parameter	Results of assessmen t	Feedback from the farmer	Any refinemen t needed	Justificatio n for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Pigeon	Rain fed	Phytophtho	Assessm	10	T1- Farmers		21.78	The percent	The seed	Need of T3	-
pea		ra stem	ent of		practice-	of disease			treatment and		
		blight in	use of		Application of	Yield(q/ha)	12.50		spraying of		
		Pigeon pea	ridomil		various	B:C ratio	3.57		Ridomil MZ		
		causes	MZ		fungicides				reduces the		
		heavy	fungicid		T2-		3.94	maximum	wilting in Pigeon		
		losses upto	e for the		Technology	of disease			pea as compare		
		70%.	manage		assessed:	X7 : 11(/L)	10.70		to the		
			ment of		1. Seed	Yield (q/ha)	18.70		neighboring		
			Phytopth		dressing with	B:C ratio	6.44	T2 (3.94).	farmer's field to		
			ora stem		RedomilMZ	B.C Tallo	0.44	-	has adopt other		
			blight in		@3g per kg			was .	method to		
			Pigeon		seed.				manage the		
			pea		2. Two foliar			in T2	wilting in Pigeon		
					sprays of			` ′	pea. Seed		
					RedomilMZ				treatment with		
					@0.25% at 15			` /	the fungicide		
					days intervals			Which is	increases		
					starting from			49.60 %	germination the		
					15 days after			more than	vigor of the		
					germination			T1	seedlings.		

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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
TO- 1 (Farmer's practice)- Application of various fungicides		12.50	Q/ha	63000	3.57
Technology option 2	IIPR Kanpur	18.70	Q/ha	110600	6.44

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: Assessment of use of ridomil MZ fungicide for the management of Phytopthora stem blight in Pigeon pea
- 2. **Problem Definition:** Phytophthora stem blight in Pigeon pea causes heavy losses upto 70%...
- 3. Details of technologies selected for assessment:
 - T1 Farmers practice: Application of various fungicides.
 - T2 Technology assessed: 1. Seed dressing with RedomilMZ @3g per kg seed.
 - 2. Two foliar sprays of RedomilMZ @0.25% at 15 days intervals starting from 15 days after germination

- 4. Source of technology: IIPR Kanpur
- 5. Production system and thematic area: Integrated Disease Management
- 6. Performance of the Technology with performance indicators: The percent number of disease incidence were found maximum in T1 (21.78), and less in T2 (3.94). The yield was maximum in T2 (18.70) as compare to T1 (12.50) Which is 49.60 % more than T1.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

The seed treatment and spraying of Ridomil MZ reduces the wilting in Pigeon pea as compare to the neighboring farmer's field to has adopt other method to manage the wilting in Pigeon pea. Seed treatment with the fungicide increases germination the vigor of the seedlings.

- **8. Final recommendation for micro level situation:** Need of seed treatment.
- 9. Constraints identified and feedback for research:
- 10. Process of farmers participation and their reaction: Assessment has been taken as per problem diagnosed, after that village-wise meeting was conducted for selection of farmers. After selecting farmers, training has been given and made aware about complete procedure for assessment.

 Regular visit of farmers were arranged and necessary suggestions were given to farmers.

C. 1. Results of Technologies Assessed Discipline - Horticulture Results of On Farm Trial -1

Crop/ enterprise	Farming situation		Title of OFT	No. of trials	0.0	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	rofinomont	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Tuberose		in traditional	Evaluation of hybrid Arka Prajwal of Tuberose on		T1- Farmer Practice- Use of local Variety Rajanigandha.	in kg	1150	The present OFT on accessing improved variety of Tuberose in terms of yield	flower	_	-
			light soils.		T2- Assessed	`	82.3	and income under			
					Practice - Use of Variety Phule Rajani.		1610	condition and medium to light	the introducti on of Arka		
						Yield Q/ha	112.1	variety Arka Prajwal had a	Prajwal due to		
					T3 - Assessed Practice- Use of	Flower/spike	25.9	large average	larger		
					Arka Prajwal	No. of flower in kg	2150	flower weight (215 gm) and	flower size and		
						Yield Q/ha		higher number of spikes (291846) and average	market price and		
								number of	acceptabil ity.		
								spikes (25.9) as compare to Phule Rajani and Local Cultivar.			

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
TO- 1 (Farmer's practice)- Use of local Variety Rajanigandha		82.3	Q/ha	144784	1.47
TO- 2 - Use of Variety Phule Rajani.	IIID Domoolum	112.1	Q/ha	255807	1.70
TO- 3- Use of Arka Prajwal	IIHR Bengaluru	143.9	Q/ha	424337	2.15

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:** Evaluation of hybrid Arka Prajwal of Tuberose on light soils.
- **2. Problem Definition:** Low yields in traditional variety.
- 3. Details of technologies selected for assessment:

Farmers Practice (T1)- Use of local Variety Rajanigandha.

Assessed Practice (T2)- Use of Variety Phule Rajani.

Assessed Practice (T3)- Use of Arka Prajwal.

A) Single type: 1) Prajwal. 2) Phule Rajani.

- 4. Source of technology: IIHR Bengaluru
- 5. **Production system and thematic area:** Varietal evaluation
- 6. **Performance of the Technology with performance indicators:** The present OFT on accessing improved variety of Tuberose in terms of yield and income under semi irrigated condition and medium to light soil showed that the improved variety Arka Prajwal had a large average flower weight (215 gm) and higher number of spikes (291846) and average number of flowers per spikes (25.9) as compare to Phule Rajani and Local Cultivar.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

The flower grower/farmer of the district accepted the introduction of Arka Prajwal due to larger flower size and better market price and acceptability.

- **8. Final recommendation for micro level situation:** This variety is highly suitable on medium to light soil and under semi irrigated condition.
- 9. Constraints identified and feedback for research: Availability of planting material of above said variety i.e. Arka Prajwal and Phule Rajani.
- 10. Process of farmer's participation and their reaction: Training, Group discussion and demonstration.

C. 1. Results of Technologies Assessed Discipline - Horticulture Results of On Farm Trial - 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	the	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Turmeric	Irrigated	1) Small Size of Rhizome. 2) Long Duration of Variety. 3) Less curcumin percentage 4)Less Dry recovery. 5)Less Average	Assessment of New Variety of Turmeric IISR Pragati and PTS-10 Vs Salem	10	T1- Farmer practice- Using salem variety- 270 days T2- New variety of turmeric i.e.1)IISR Pragati	crop Dry recovery Wet recovery Pest & Disease Yield Q/ha Duration of crop Dry recovery Wet recovery	270 34.4 Q/ha 176.26 Q/ha More 176.26 180 27.17 Q/ha	When a traditional variety of turmeric salem selected for assessment with IISR-Pragati results indicate that	Farmer were grown salem variety since many years observed sthat although it	-	-
		yield				Pest & Disease	Less	4.75	weight and		

(kg/ha).	duration.	Yield t/ha	189.93 t/hacurcumine	color is
				very
				attractive
			irrigated areas	beside this
				dry
			colour of	recovery
			rhizome is	from this is
			attractive and	very high
				i.e 20%
			better price in	which fetch
			the market as	
			_	price in the
			IISR-Pragati.	
			IISR-Pragati	
				IISR-
			duration (180	
				with
				recovery
				percentage
				is 14%.
			where	
			irrigation	
			problem is	
			serious.	

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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
TO- 1 (Farmer's practice)-		17.62	t/ha	237000	1.79
Using salem variety- 270 days		17.02		237000	1.79
TO- 2- New variety of turmeric	IISR Calicat, Kerla	18.39	t/ha	572500	3.86
i.e.1)IISR Pragati (ACS-		10.39		372300	3.00

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: Assessment of New Variety of Turmeric IISR Pragati and PTS-10 Vs Salem
- **2. Problem Definition:** 1) Small Size of Rhizome. 2) Long Duration of Variety. 3) Less curcumin percentage 4)Less Dry recovery. 5)Less Average yield (kg/ha).
- 3. Details of technologies selected for assessment:

T1- Farmer practice- Using salem variety- 270 days

T2- New variety of turmeric i.e.1)IISR Pragati (ACS-48) 180 days duration.

- 4. Source of technology: IISR Calicat, Kerla
- 5. **Production system and thematic area:** Varietal assessment.
- 6. Performance of the Technology with performance indicators: When a traditional variety of turmeric salem selected for assessment with IISR-Pragati results indicate that salem local is 9 month duration variety with 4.75 curcumine and highly suitable for irrigated areas beside this colour of rhizome is attractive and it fetches better price in the market as compare to IISR-Pragati. IISR-Pragati is short duration (180 days) and highly suitable for the areas where irrigation problem is serious.
- 7. Feedback, matrix scoring of various technology parameters done through farmer's participation / other scoring techniques:

Farmer were grown salem variety since many years observed that although it is 9 months old but the rhizome quality, weight and color is very attractive beside this dry recovery from this is very high i.e 20% which fetch higher price in the market as compare to IISR-Pragati with recovery percentage is 14%.

- 8. Final recommendation for micro level situation: Need for multi location trial and assessment under different agro climatic condition in district.
- 9. Constraints identified and feedback for research: Non availability of pure planting material of turmeric with no protected irrigation. i.e. drip and sprinkler and traditional method of planting. In order to save planting material innovative propagation method such as preparation of turmeric seedling by using bud in pro tray should be encouraged.
- **10. Process of farmer's participation and their reaction:** Farmers were highly satisfied with the assessment and excite to conduct this trial under KVK technical guidance.

C. 1. Results of Technologies Assessed Discipline – Veterinary science Results of On Farm Trial - 1

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	ratinamant	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Cattle & Buffalo	Rain fed	Incidences of sub clinical Mastitis	Assessmen t of different preventive measures for sub clinical mastitis in dairy animals		spray		04 06 00 10 02	T2 has not recorded any sub clinical mastitis incidences i.e. 0% while T1 is 40% & T3 is 20%	Masti guards of TANUVAS / GADVASU was very excellent easy to use and there is no cuts tearing of teat skin and cracks. The appearance of teat is soft, smooth as compare to T3 & also having fly repelling property which is additional benefit.		

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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)		06	Lit/day	3000	1.5
Technology option 2 - Mastiguard spray	TANUVAS- Chennai	10	Lit/day	8856	2.44
Technology option 3	Natural remedies pvt. Ltd.	08	Lit/day	5802	1.93

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: Assessment of different preventive majors for sub clinical mastitis in dairy animals.
- **2. Problem Definition:** Incidences of sub clinical mastitis in dairy animals.
- **3. Details of technologies selected for assessment:** T1-Farmer Practice- Nothing is used after milking
 - T2- Technology assessed- Mastiguard spray of prepared by TANVAS
 - T3 Natural remedies Pvt. Ltd's. Spray was used after the milking on teat hole and on teats.
- 4. Source of technology: TANUVAS- Chennai & GADVASU, Ludhiyana.
- **5. Performance of technology:** T2 was best to avoid occurrence of sub clinical mastitis while in T3 20% incidences was occurred as that of in farmers practice it was 40%.
- 6. Production system and thematic area: Disease management
- 7. Feedback, matrix scoring of various technologies: Masti guards of TANUVAS / GADVASU was very excellent easy to use and there is no cuts tearing of teat skin and cracks. The appearance of teat is soft, smooth as compare to T3 & also having fly repelling property which is additional benefit.
- **8. Final recommendation for micro level situation**: Use of mastiguard in all season to healthy animals after milking is benefited and also avoiding mastitis. It is also having fly repellent property. So useful in reducing flies on teat, udder which may cause magnited wound.
- 9. Constraints identified and feedback for research
- 10. Process of farmer's participation and their reaction: Farmers are actively participated in the On Farm Trial & observed the data on parameters correct.

C. 1. Results of Technologies Assessed Discipline – Veterinary Science Results of On Farm Trial - 2

Crop/ enterprise	Farming situation	Problem definition	Title of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer	Any refinement needed	Justification for refinement
1	2	3	4	5	6	7	8	9	10	11	12
Poultry	Rainfed	22	Assessment of Kaveri	10	T1 – Farmers	Egg/Bird/year	90	T2 has more eggs /year i.e.	The Kaveri Birds are		
		2.Low body weight				Weight gain	Ave. 850 gms in 3	152 at the age of 4 months with continuous egg			
					Improved	Egg/Bird/year	152	laying with good quality &	than local breeds i.e. 1		
					Kaveri Birds	Weight gain	three months	00 1	month before. The laying is continuous		
								months onwards with gap of 2-3 weeks.	as compare to local birds with		
								eggs quality was	good quality & weight.		

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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) Local deshi birds		90	Eggs/bird/year	5250	1.63
Technology option 2 - Improved Kaveri Birds	PDP Bangalore	152	Eggs/bird/year	14500	2.74

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: Assessment of Kaveri birds for backyard poultry.
- **2. Problem Definition**: Low egg production, low body weight gain.
- 3. Details of Technology selected for assessment: T1- Farmers practice (Local desi birds), T2- Improved Kaveri birds
- 4. Source of technology: PDP, Banglore.
- 5. Production System & thematic area: Breed evaluation.
- **6. Performance of technology:** T2 has more eggs /year i.e. 152 at the age of 4 months with continuous egg laying with good quality & weight While T1- It gives only 90 eggs /year at the age of 5 months onwards with gap of 2-3 weeks. Sometimes the eggs quality was poor. Production system and thematic area Disease management.
- **7. Feedback, matrix scoring of various technologies**: The Kaveri Birds are gaining the weight early as well as they laid eggs one month before local birds. The egg laying capacity is more & continuous as that of local birds which take long gap of 2-3 weeks.
- **8. Final recommendation for micro level situation**: The Kaveri birds are very useful in backyard poultry with more number of eggs /year and attend the 1 kg weight in less time i.e. in 3 months. So they are recommended.
- 9. Constraints identified and feedback for research:
- 10. Process of farmer's participation and their reaction: Farmers are actively participated in the On Farm Trial & observed the data on parameters correct.

3.3. FRONTLINE DEMONSTRATION

Discipline - Agronomy

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

List of technologies demonstrated during previous year and popularized during 2022 and recommended for large scale adoption in the district

	Crop/	Thomatia		Details of nonularization matheds	Horizontal spi	hnology	
S. No	Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	No. of	No. of	Area
		Area		suggested to the Extension system	villages	farmers	in ha
1	Sorghum	Varietal	To Demonstrate Introduction of new	Field day, Training programme,	15	175	80
		evaluation	variety of sorghum Phule Revati and	Demonstrations			
			Parbhani super moti under life saving				
			irrigation as compare to local check.				

B. Details of FLDs implemented during 2022(Kharif 2022, Rabi 2021-22, Summer 2022) (Information is to be furnished in the following three tables for

each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl.	(ron		Technology Demonstrated	Season	Area	(ha)		o. of farme monstrat	Reasons for shortfall in	
No.	Стор	area	recunology Demonstrated	and year	Proposed	Actual	SC/ST	Others	Total	achievemen
										τ
2	Sorghum	Varietal	To Demonstrate Introduction of new	Rabi	10	10	4	6	10	-
		evaluation	variety of sorghum Phule Revati and	2021-22						
			Parbhani super moti under life saving							
			irrigation as compare to local check.							

Details of farming situation

	Season	Farming situation (RF/Irri gated)	Soil type	Status of soil		ious ge	ing te	vest te	onal fall m)	of ny ys	
Crop				N	P	K	Prev	Sow	Har	Seas rain (m	No rai da
Sorghum	Rabi	irrigated	Medium black	Low	Low	High	Soybean	28 October 2021	20 th February 2022	1090	55

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Phule revati variety is tolerant to shoot fly and stem fly.
2	It is round bold grain, Pearly white
3	It is a dual purpose variety grain and fodder.
4	It is higher yield obtain as compare to local variety.

Farmers' reactions on specific technologies

	william i was a specific terminologies						
S. No	Feed Back						
1	It is higher yielding variety as compare to local <i>maldandi</i> .						
2	It is good quality grain and fodder also.						
3	It is less infestation of pest and diseases.						
4	Parbhani super moti is higher yield obtain under rainfed as well as irrigated condition.						

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	01	18/01/2022	15	-
2	Farmers Training	01	20/11/2021	45	-
3	Media coverage	-	-	-	-
4	Training for extension functionaries	-	-	-	-

3.3. FRONTLINE DEMONSTRATION

Discipline: Plant Protection:

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

List of technologies demonstrated during previous year and popularized during 2022 and recommended for large scale adoption in the district

S.	Crop/	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to	Horizontal spread of technology			
No	Enterprise			the Extension system	No. of	No. of	Area in	
110		Alta		the Extension system	villages	farmers	ha	
1	Pigeon pea	IPM	Integrated Pest and Disease	1) Organized demonstration on 10 farmer's field.	26	1300	1600	
			management	2) Conducted trainings FFS in FLD plot.				
				3) Organized frequent field visit to FLD plot.				
2	Chick pea	IPM	Integrated Pest and Disease	1) Organized demonstration on 10 farmer's field.	20	1200	1300	
			management	2) Conducted trainings FFS in FLD plot.				
				3) Organized frequent field visit to FLD plot.				
3	Soybean	IPM	Integrated Pest and Disease	1) Organized demonstration on 10 farmer's field.	25	1600	1700	
			management	2) Conducted trainings FFS in FLD plot.				
				3) Organized frequent field visit to FLD plot.				
4	Turmeric	IPM	Integrated Pest and Disease	1) Organized demonstration on 10 farmer's field.	15	1300	150	
			management	2) Conducted trainings FFS in FLD plot.				
				3) Organized frequent field visit to FLD plot.				

B. Details of FLDs implemented during 2022 (Kharif 2022, Rabi 2021-22, Summer 2022) (Information is to be furnished in the following three tables for

each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in
1,00					Proposed	Actual	SC/ST	Others	Total	achievement
1	Pigeon pea	IPM	Integrated Pest and	Kharif 2022-	08	08	06	14	20	
			Disease management	23						
2	Chick pea	IPM	Integrated Pest and	Rabi 2021-22	08	08	08	12	20	
			Disease management							
3	Soybean	IPM	Integrated Pest and	Kharif	08	08	08	12	20	
			Disease management	2022-23						
4	Turmeric	IPM	Integrated Pest and	Kharif	08	08	04	16	20	
			Disease management	2022-23						

Details of farming situation

Crop	ason	rming nation Trrigat ed)	l type	Statu	s of s	oil	vious	wing ate	rvest	sonal nfall nm)	o. of niny avs
	Še	Fari situs RF/I e	Soil	N	P	K	Pre cı	Sov	Ha	Sea rai (n	Ž Ľ Þ
Pigeon pea	Kharif 2022	Rainfed	Medium to heavy	Medium	Low	High	Bengal gram,	15-17 June 2022	Last week of Dec 2021	910.9	45
							Rabi Jowar		to 2 nd week Jan 2022]
Chick pea	Rabi 2021	Irrigated/Rainfed	Medium to heavy	Medium	Low	High	Soybean	25 Oct-10 Nov 21		1090	55
Soybean	Kharif 2022	Rainfed	Medium to heavy	Medium	Low	High	Chick pea/ Jowar	15 -18 Jun 2022	17 – 23 Oct 2021	910.9	45
Turmeric	Kharif 2022	Irrigated	Medium to heavy	Medium	Low	High	Cotton/ Chick pea	10-20 Jun 2022		910.9	45

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1) IPM technology	IPM technology is very useful in every crop for reducing cost of plant protection up to 40 to 60 %. It was very effective in Soybean,
	Turmeric, Chick pea and Pigeon pea for management of pest and diseases.
2)Pheromone traps	Installation of Pheromone traps for monitoring and trapping of the pest is very cost effective method for reducing the pest population.
	Most of the farmers have installed the pheromone traps in Soybean, Chick pea and Pigeon pea for management of pest and diseases.
3)Trichoderma	Rhizome seed treatment and drenching with Trichoderma in Turmeric crop for effective management of Rhizome rot.
4) Field days	Field days celebration helps to aware the farmers about IPM technology.

Farmers' reactions on specific technologies

S. No	Feed Back
1. Training	The training on IPM Technology is very effective for us to identify the different insect pest and Beneficial insects.
2.Use of Botanical pesticides	Use of Neem ark or NSKE 5% is very effective for manage the pest in early stages of crops. The number of Natural
	enemies have observed this year due to the use of NSKE. It is very easy to prepare at home.
3. Use of <i>Metarhizium</i> for white Grub	Application of <i>Metarhizium anisopli</i> is very effective for controlling the white Grub in Turmeric.
management	

Extension and Training activities under FLD

Sl. No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	04	15/08/2022, 28/08/2022 14/11/2022, 22/01/2023	135	
2	Farmers Training	08	10/06/2022, 15/06/2022, 05/07/2022,17/07/2022, 06/09/2022 04/09/2022,12/12/2022, 12/01/2023	205	
3	Media coverage	02	-	-	
4	Training for extension functionaries	01	02/07/2021	27	

3.3. FRONTLINE DEMONSTRATION

Discipline: Horticulture

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

List of technologies demonstrated during previous year and popularized during 2022 and recommended for large scale adoption in the district

	Crop/	Thematic		Datails of nanularization mathods	Horizontal spi	read of tec	hnology
S. No	Enterprise	Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	No. of villages	No. of	Area in
		Alta		suggested to the Extension system		farmers	ha
1	Chilli	Varietal	Demonstration on growing of	Farmers of adopted village were using	05	10	01
		introduction	chili on plastic mulch	plastic mulch film of 25 micron which is			
		and crop		4 feet in to 400 meter and cost			
		improvement		Rs.2200/- per bundle with popular chili			
				F1, Ankur 930 found that this			
				combination is very effective due to			
				following observations: 1) This practice			
				reduce weed growth and thus save			
				weeding expenditure. 2) Pest and			
				disease attack is also less. 3) Fruit			
				quality is attractive and fresh. 4) % of			
				dropping flowers and fruits is very less.			

B. Details of FLDs implemented during 2022 (Kharif 2022, Rabi 2021-22, Summer 2022) (Information is to be furnished in the following three tables for

each category i.e. cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	` '		No. of farmers/ demonstration			Reasons for shortfall in
					Proposed	Actual	SC/ST	Others	Total	achievement
1	Chilli	Varietal introduction and crop improvement	Demonstration on growing of chili on plastic mulch	Rabi- 2021-22	01	01	04	06	10	

Details of farming situation

Crop	eason	rming uation Irrigated)	il type	s	tatus of so	il	ious crop	ing date	vest date	:asonal fall (mm)	of rainy days
	Š	Fa sit (RF/	So	N	P	K	Prev	Sow	Har	Se	No.
Chilli	Rabi- 2021-22	Irrigated & Rainfed	Medium black soil	Low	Medium	High	Summer groundnut & Sesamum	September 2021	January 2022	1090.2	54

Technical Feedback on the demonstrated technologies

	S. No	Feed Back
Ī	1	The fruits of Ankur -930 chili variety were very attractive and green in colour and fetch better price in market as compare to the local one. The fruit of
		which are short and dull in colour. Beside this pest and disease attack on local variety is more as compare to the Ankur-930.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Ankur 930 is a popular and promising F1 of chili amongst district farmers, but when this F1 grown by raising seedlings and transplanting them in
	main field on mulching paper height of the plant recorded more with more number of flowers and fruits, less flower and fruit drop and fruit free
	from pest and disease. Percentage of weed is also less which saves extra expenditure on intercultivation. This practice is now a days is very
	popular in chili growing areas of nanded district.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	01	25/02/2022	22	
2	Farmers Training	01	10/12/2022,	17	
3	Media coverage	01	08/12/2022		
4	Training for extension functionaries	01	06/12/2022	20	

C. Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

	dellions	trations on onsect	a crops		·		3 7° . 1	117.7.				T			т.		C 1	. 1
	Thoma			No of	A 200		Yie	ld (q/ha)		%	dom	Econoi ionstrat	mics of	/ha)	ЕC		s of che	CK
C	Thema	technology	Variet	No. of	e a				Increas					•	(Rs.	<u> </u>	DCD.	
Crop	tic	demonstrated	y	Farme		TT. 1	Demo		Chec	e in	Gros		Net	BCR	Gros	Gross	Net	BCR
	Area		•	rs	(na)	High	Lo w	Averag	k	yield	s Cost	Retur n	Retur n	(R/C	s Cost	Retur n	Retur n	(R/C
Sesamu m (Summe		To Demonstrate Yield potential Use of improved	PDKV -NT- 11	25	10	11.2 5	3.75	6.87	5.44	26.29	1250 0	82440	69940	6.59	1312 0	65280	52160	4.97
r 2022)		variety PDKV- NT-11 under whole component as																
		compare to Local western-11 variety																
Soybean	IPDM	IPM in Soybean	KDS- 726	20	08	26.5	20	23.25	18.75	24	4600 0		70250	2.52	4950 0	93750	44250	1.89
Soybean	ICM	To Demonstrate Yield potential Use of improved variety KDS-753 under whole component as campare to JS- 335 variety	KDS- 753	50	20	35	17.5	22.6	18.1	24.86	3828 0	12430 0	86020	3.24	3842 0	99550	61130	2.59

Frontline demonstration on pulse crops

	Thomas:	toohnology.	Variet	No. of	Are		Yiel	d (q/ha)		% Inoreas	den	Econor nonstrati		ha)	Ec	onomics (Rs.)		ck
Crop	Themati c Area	technology demonstrated	v ariet y	Farm	a		Dem		Chec	Increas e in		Gross				Gross		BCR
			J	ers	(ha)	High	Low	Averag e	k	yield	s Cost	Retur n	Retur n	(R/C	s Cost	Retur n	Retur n	(R/C
Pigeo n pea	IPDM	IPM in Pigeon pea	BDN- 711	20	08	18.5	14.5	16.5	13	26.92	1800 0			6.41			69500	4.23
	ICM	To Demonstrate Yield potential Use of improved variety BDN- 716 under whole component as compare to BSMR-736 variety	BSMR -736	50	20	23.7	12.5	18.33	16.02	14.42	2050		10781 0	6.25	2125 0	11214 0	90890	5.27
Chick pea (Rabi 2021- 22)		To Demonstrate Yield potential Use of improved variety Phule vikram under whole component as compare to Vijay variety	Phule Vikra m	50	20	28.7 5	14.1 5	22.81	17.25	32.23	3012 5	10948 8		3.63	0	82800	52590	
Chick pea (Rabi 2021- 22)	IPM	IPM in Chick pea	Jaki- 9218	20	08	27.5	22	24.75	20.5	20.73	3150 0	11880 0	87300	3.77	3400 0	98400	64400	2.89

FLD on Other crops

FLD on O	спет стор	3	No.			Yiel	d (q/ha)		%	Other P	aramo	eters	E	Econon nstrati		/ha)	Eco	nomics (Rs./	of che	ck
Category	1		of	Are a	TT2_	Den		Chec	Chan ge in	Other	Dam	Chas		Gross		BĆ	C	Gross		ВС
& Crop	ic Area	technology	Farm ers	(ha)	Hig h	L0 W	Avera ge	k	Yield	Paramet er	0	=	Cost	Retur n	Retur n		Gross Cost	Retur n	Retur n	R (R/C
Millets Rabi	Variet	To Demonstrate	10	04	31	18	27.4	19.	42.7				259	876	617	3.3	251	614	363	2.4
Jowar (2021- 22)	al evalua tive	Introduction of new variety of sorghum phule Revati and parbhani super				.5		2	0				50	80	30	7	20	40	20	4
		moti under life saving irrigation as compare to local check			26	15 .4	22.1	17. 3	27.7 4				258 70	707 20	448 50	2.7	241 50	553 60	312 10	2.2 9
Vegetable Chilli	·	Demonstration	10	Ω1	130	90	110	05	29.41		150	90	470	440	393	9.3	470	255	208	5 /
(Rabi 2021-22)	introdu ction		IU	U1	130	90	110	63	29.41		Plant heig ht	=	00	000	000	6	00	000	000	5.4 2
Spices &	**********************																			
Turmeric	IPDM	IPM in Turmeric	20	08	328. 5	306	317.25	260	22.01	Incidenc e of Rhizome rot Incidenc e of Rhizome fly Yield Q/ha	1.29	3.62	0		26759 7	3.14	13800	32175 0	18375 0	2.33

Frontline Demonstration on Nutri cereals

(٦	Th 4:	Technology	V 74	No. of	Are		Yie	ld (q/ha)		%	den	Econor nonstrat	nics of ion (Rs./	'ha)	Ec		s of chec /ha)	ck
·	ro p	c Area	demonstrate d	y	Farmer s	a (ha)	Hig h	Den Lo	10 Averag	Chec k	e in yield		Gross Retur	Net Retur	BCR (R/C	Gros s Cost	Gross Retur	Net Retur	BCR (R/C

FLD on Livestock

Categ ory	Thematic area	Name of the technology	No. of Farm	i	Major pai	ameters	% change	Other pa	arameter			mics of ation (l		Eco		s of ch s.)	eck
		demonstrate d	er	(Anima l/ Poultry / Birds, etc)		Check	in major paramet er	Demo	Check	1		Net Retur n	•	1		Net Retur n	BC R (R/ C)
Dairy	management	Integrated control of ticks & fly in dairy shed.	10	10	7.5 lit/ day	5.5 lit /day		disease occurren	20 % disease occurren ce	5590	11250	5660	2.01	5660	8250	2590	1.45
Dairy	fodder Management	Silage Making in polypropylen e bag	10	10	180lit/anima l/month	150/ lit /animal/ month	20%			2500	7200	4700	2.88	3000	5850	2850	1.95
Goat	Nutrient Management		10		weight	2.4 kg birth weight	= '	Mortalit y 5%	20%	1890	6000	4110	3.17	1800	4500	2700	2.5

FLD on Fisheries

		Name of the	No of	No.o	Major pa	arameters	% change	Oth paran	_	de	Econor monstra		ks.)	Eco		s of checks.)	ck
Categor y	Themati c area	Name of the technology demonstrat ed	Farm er	f unit s	Demons ration	Check	in major parame ter	Demon s ration	Chec k	Gross Cost	Gross Retur n	Net Retur n	BCR (R/C)	Gros s Cost	Gros s Retu rn	Net Return	BC R (R/ C)

FLD on Other enterprises

9	Category	Name of the technology	1	units	paran	neters		para	ther meter	(Rs.)	or Rs./u		s of che Rs./unit	:
		demonstrated	er		Demo	Check	paramete r	Demo	Check	Gross Return			Net Return	

FLD on Women Empowerment

~	tegory Name of technology	No. of demonstrations	Name of observations	Demonstration	Check	

FLD on Farm Implements and Machinery

Name of	Cro	Technology	No. of	Are	Major	Fi	led	% change	Labor re	duction	(man d	ays)	Cos	t redu	ction	
the	p	demonstrate	Farme	a	parameter	obser	vation	in major					(Rs./ha o	or Rs./	Unit etc	.)
implemen		d	r	(ha)	s	(outp	ut/man	parameter					Ì			
t						ho	ur)	Purantour								
						Demo	Check		Land	Sowing	Weedi	Total	Land	Labo	Irrigati	Tot
						Demo	CHUCK		preparation		ng		preparation	ur	on	al
																

FLD on Other Enterprise: Kitchen Gardening

***************************************	Nutrition	Themati	Area (sq	No.	No.	Yield (Kg)-		, 0	Hous	ehold	Econo	mics of de	emonsti	ration	Ec	onomics	of che	ck
	garden	c area	mt)	of	of	vegetables, from KG i		chang	si	-		(Rs./h	a)			(Rs./h	ıa)	
	componen			Farm	Units			e in	(nun	ıber)				·				<u>.</u>
	ts			er		Demons	Check*	yield	Demo	Check		Gross	Net		Gross	Gross		BCR
I						ration					Cost	Return/Sa	Retur	(R/C)	Cost	Return/	Retur	(R/C)
						144011	ļ					vings*	n			Savings*	n	

FLD on Demonstration details on crop hybrids

C	technology	Hybrid	No. of	Area		Yield	(q/ha)		%	Ecoi	nomics of (Rs.)		tion
Crop	demonstrated	Variety	Farmers	(ha)		Demo		Check	in yield	Gross	Gross	Net	BCR
					High	Low	Average	CHECK	ili yiciu	Cost	Return	Return	(R/C)

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				P	articipant	ts			
	courses		Others			SC/ST		G	Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	01	15	05	20	0	0	0	15	05	20
Resource Conservation Technologies	01	17	0	17	12	0	12	29	0	29
Cropping Systems	01	13	0	13	14	0	14	27	0	27
Crop Diversification	01	10	02	12	0	0	0	10	02	12
Integrated Farming	01	15	0	15	10	0	10	25	0	25
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	01	12	12	24	16	10	26	22	28	50
Soil & water conservation										
Integrated nutrient management	01	10	0	10	12	0	12	22	0	22
Production of organic inputs	01	40	04	44	10	02	12	50	06	56
Total	08	132	23	155	74	12	86	200	41	241
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops										
Off-season vegetables	01	40	0	40	25	0	0	65	0	65
Nursery raising										
Exotic vegetables	01	25	05	30	0	0	0	25	05	30
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Total (a)	02	65	05	70	25	0	0	90	05	95
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	01	15	02	17	0	0	0	15	02	17
Cultivation of Fruit										
Management of young plants/orchards	01	55	0	55	40	0	40	95	0	95
Rejuvenation of old orchards										

Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	01	14	05	19	0	0	0	14	05	19
Total (b)	03	84	07	91	40	0	40	124	07	131
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants	01	14	02	16	0	0	0	14	02	16
Propagation techniques of Ornamental Plants										
Total (c)	01	14	02	16	0	0	0	14	02	16
d) Plantation crops										
Production and Management technology										
Processing and value addition	01	18	03	21	0	0	0	18	03	21
Total (d)	01	18	03	21	0	0	0	18	03	21
e) Tuber crops										
Production and Management technology										
Processing and value addition	01	18	04	22	0	0	0	18	04	22
Total (e)	01	18	04	22	0	0	0	18	04	22
f) Spices										
Production and Management technology	01	32	04	36	0	0	0	32	04	36
Processing and value addition										
Total (f)	01	32	04	36	0	0	0	32	04	36
g) Medicinal and Aromatic Plants										
Grand Total (a to g)	17	363	48	411	139	12	126	496	66	562
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management	01	40	05	45	24	12	36	64	17	81
Integrated Nutrient Management	01	29	03	32	10	0	10	39	03	42
Production and use of organic inputs	01	33	01	34	06	0	06	39	01	40
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers	01	25	07	32	0	0	0	25	07	32
Soil and Water Testing										
Total	04	127	16	143	40	12	52	167	28	195
IV Livestock Production and Management										

Dairy Management	01	40	01	41	03	01	04	43	02	45
Poultry Management	01	29	03	32	10	0	10	39	03	42
Piggery Management										
Rabbit Management										
Animal Nutrition Management	01	08	0	08	04	0	04	12	0	12
Disease Management										
Feed & fodder technology	01	33	01	34	06	0	06	39	01	40
Production of quality animal products	01	41	0	41	0	0	0	41	0	41
Total	05	151	05	156	23	01	24	174	06	180
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition										
gardening										
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs	01	0	10	10	0	12	12	0	22	22
Storage loss minimization techniques										
Value addition	01	12	02	14	0	0	0	12	02	14
Women empowerment	01	0	10	10	0	25	25	0	35	35
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Total	03	12	22	34	0	37	37	12	59	71
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	04	225	35	260	36	40	76	261	75	336
Integrated Disease Management	07	119	29	148	44	26	70	163	55	218
Bio-control of pests and diseases	01	24	04	28	0	0	0	24	0	28
Production of bio control agents and bio pesticides	03	213	47	260	39	23	62	252	70	322
Total	15	581	115	696	119	89	208	700	200	904
VIII Fisheries										
IX Production of Inputs at site										
Seed Production	01	18	03	21	0	0	0	18	03	21
Planting material production										
Bio-agents production	03	45	03	48	0	0	0	45	03	48

Bio-pesticides production	04	33	04	37	0	0	0	33	04	37
Bio-fertilizer production										
Vermi-compost production	05	55	06	61	0	0	0	55	06	61
Organic manures production	06	69	04	73	0	0	0	69	04	73
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets	01	15	03	18	0	0	0	15	03	18
Small tools and implements										
Production of livestock feed and fodder	03	88	04	92	0	0	0	88	04	92
Production of Fish feed										
Mushroom Production										
Apiculture	02	33	20	53	0	0	0	33	20	53
Total	25	356	47	403	0	0	0	356	47	403
X CapacityBuilding and Group Dynamics										
	01	12	05	17	0	0	0	12	05	17
X CapacityBuilding and Group Dynamics		12 18	05 04	17 22	0	0 0	0 0		05 04	17 22
X CapacityBuilding and Group Dynamics Leadership development	01					U		12		
X CapacityBuilding and Group Dynamics Leadership development Group dynamics	01 01	18	04	22	0	0	0	12 18	04	22
X CapacityBuilding and Group Dynamics Leadership development Group dynamics Formation and Management of SHGs	01 01	18	04	22	0	0	0	12 18	04	22
X CapacityBuilding and Group Dynamics Leadership development Group dynamics Formation and Management of SHGs Mobilization of social capital	01 01	18	04	22	0	0	0	12 18	04	22
X CapacityBuilding and Group Dynamics Leadership development Group dynamics Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths	01 01	18	04	22	0	0	0	12 18	04	22
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	01 01 01	18 25	04 07	22 32	0 0	0 0	0 0	12 18 25	04 07	22 32

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of									
	courses		Others			SC/ST		G	rand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	01	30	0	30	20	0	20	50	0	50
Resource Conservation Technologies	01	12	0	12	08	0	08	20	0	20
Cropping Systems	01	24	04	28	16	02	18	40	06	46
Crop Diversification	01	25	02	27	20	01	21	43	03	48
Integrated Farming	01	08	0	08	07	0	07	15	0	15
Micro Irrigation/irrigation	01	12	02	14	20	03	23	32	05	37
Seed production	01	54	0	54	60	02	62	114	02	116
Nursery management	01	24	12	36	12	06	18	36	18	54
Integrated Crop Management	01	20	0	20	25	0	25	45	0	45
Soil & water conservation	01	26	02	28	20	01	21	46	03	49
Integrated nutrient management	01	30	0	30	22	0	22	12	02	14
Production of organic inputs	01	26	04	30	15	02	17	41	06	47
Total	12	291	26	317	245	17	262	494	45	545
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	01	30	0	30	08	0	08	38	0	38
Off-season vegetables	01	42	0	42	24	0	24	66	0	66
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Total (a)	02	72	0	72	32	0	32	104	0	104
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards	01	52	24	76	12	08	20	64	32	125
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										

Plant propagation techniques										
Total (b)	01	52	24	76	12	08	20	64	32	125
c) Ornamental Plants										
d) Plantation crops										
e) Tuber crops										
f) Spices										
Production and Management technology	01	42	10	52	10	05	15	52	05	67
Processing and value addition										
Total (f)	01	42	10	52	10	05	15	52	05	67
g) Medicinal and Aromatic Plants										
Grand Total (a to g)	16	457	60	521	299	30	329	714	82	843
III Soil Health and Fertility Management										
IV Livestock Production and Management										
Dairy Management	01	35	0	35	15	0	15	50	0	50
Poultry Management	01	68	21	89	07	0	07	75	21	96
Piggery Management										
Rabbit Management										
Animal Nutrition Management	01	18	04	22	06	0	06	24	04	28
Disease Management	01	66	12	78	0	0	0	66	12	78
Feed & fodder technology	01	27	17	44	18	07	15	35	24	59
Production of quality animal products	01	12	06	18	08	04	12	20	10	30
Total	06	226	60	286	54	11	55	270	71	341
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01	0	20	20	0	05	05	0	25	25
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	01	0	05	05	0	03	03	0	08	08
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques	01	0	15	15	0	05	05	0	20	20
Value addition	01	0	25	25	0	12	12	0	37	37
Women empowerment	01	0	32	32	0	0	0	0	32	32
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										

Total	5	0	97	97	0	25	25	0	122	122
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	05	77	25	102	47	14	61	124	39	163
Integrated Disease Management	06	89	14	103	33	21	54	122	35	157
Bio-control of pests and diseases	03	45	03	48	03	0	03	48	03	51
Production of bio control agents and bio pesticides	02	23	0	23	0	0	0	23	0	23
Total	16	234	42	276	83	35	118	317	77	394
VIII Fisheries										
IX Production of Inputs at site										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital	01	14	4	18	0	0	0	14	4	18
Entrepreneurial development of farmers/youths	01	25	7	32	0	0	0	25	7	32
WTO and IPR issues	01	19	2	21	0	0	0	19	2	21
Total	3	58	13	71	0	0	0	58	13	71
XI Agro-forestry										
GRAND TOTAL	46	975	272	1252	436	101	527	1359	365	1771

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

Thematic area	No. of									
	courses		Others			SC/ST		(Grand Tota	al
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	02	45	05	50	20	0	20	65	5	70
Resource Conservation Technologies	02	29	0	29	20	0	20	49	0	49
Cropping Systems	02	37	04	41	30	02	32	67	6	73
Crop Diversification	02	35	04	39	20	01	21	55	5	60
Integrated Farming	02	23	0	23	17	0	17	40	0	40
Micro Irrigation/irrigation	01	12	2	14	20	3	23	32	5	37
Seed production	01	50	0	50	60	2	62	110	2	112
Nursery management	01	24	12	36	12	6	18	36	18	54
Integrated Crop Management	02	32	12	44	41	10	51	73	22	95
Soil & water conservation	01	26	2	28	20	1	21	46	3	49
Integrated nutrient management	02	40	0	40	34	0	34	74	0	74
Production of organic inputs	02	66	08	74	25	04	29	91	12	103
Total	20	419	49	468	319	29	348	738	78	816
II Horticulture										
a) Vegetable Crops										
Production of low value and high value crops	01	30	0	30	8	0	8	38	0	38
Off-season vegetables	02	82	0	82	49	0	24	131	0	131
Nursery raising								0	0	0
Exotic vegetables	01	25	05	30	0	0	0	25	05	30
Export potential vegetables										
Grading and standardization										
Protective cultivation										
Total (a)	04	137	05	142	57	0	32	194	05	199
b) Fruits										
Training and Pruning										
Layout and Management of Orchards	01	15	02	17	0	0	0	15	2	17
Cultivation of Fruit								0	0	0
Management of young plants/orchards	02	107	24	131	52	08	60	159	32	191
Rejuvenation of old orchards										

Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques	01	14	05	19	0	0	0	14	05	19
Total (b)	04	136	31	167	52	08	60	188	39	227
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants	01	14	02	16	0	0	0	14	02	16
Propagation techniques of Ornamental Plants										
Total (c)	01	14	02	16	0	0	0	14	02	16
d) Plantation crops										
Production and Management technology										
Processing and value addition	01	18	03	21	0	0	0	18	03	21
Total (d)	01	18	03	21	0	0	0	18	03	21
e) Tuber crops										
Production and Management technology										
Processing and value addition	01	18	04	22	0	0	0	18	04	22
Total (e)	01	18	04	22	0	0	0	18	04	22
f) Spices										
Production and Management technology	02	74	14	88	10	05	15	84	09	103
Processing and value addition										
Total (f)	02	74	14	88	10	05	15	84	09	103
g) Medicinal and Aromatic Plants										
Grand Total (a to g)	13	397	59	456	119	13	107	516	62	578
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management	01	40	05	45	24	12	36	64	17	81
Integrated Nutrient Management	01	29	03	32	10	0	10	39	3	42
Production and use of organic inputs	01	33	01	34	06	0	06	39	1	40
Management of Problematic soils								0	0	0
Micro nutrient deficiency in crops								0	0	0
Nutrient Use Efficiency								0	0	0
Balance use of fertilizers	01	25	7	32	0	0	0	25	7	32
Soil and Water Testing										
Total	4	127	16	143	40	12	52	167	28	195
IV Livestock Production and Management										

Dairy Management	2	75	1	76	18	1	19	93	2	95
Poultry Management	2	97	24	121	17	0	17	114	24	138
Piggery Management		91	24	0	1 /	U	0	0	0	0
Rabbit Management				0			0	0	0	0
		26	4	30	10	0	10	36		40
Animal Nutrition Management	2		12		10	Ţ.			4	
Disease Management	01	66		78	0	0	0	66	12	78
Feed & fodder technology	2	60	18	78	24	7	31	84	25	109
Production of quality animal products	2	53	6	59	8	4	12	61	10	71
Total	11	377	65	442	77	12	89	454	77	531
V Home Science/Women empowerment										<u> </u>
Household food security by kitchen gardening and nutrition gardening	01	0	20	20	0	05	05	0	25	25
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing	01	0	05	05	0	03	03	0	08	08
Processing and cooking										
Gender mainstreaming through SHGs	01	0	10	10	0	12	12	0	22	22
Storage loss minimization techniques	01	0	15	15	0	5	5	0	20	20
Value addition	02	12	27	39	0	12	12	12	39	51
Women empowerment	02	0	42	42	0	25	25	0	67	67
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Total	08	12	119	131	0	62	62	12	181	193
VI Agril. Engineering										
VII Plant Protection										
Integrated Pest Management	09	302	50	362	83	54	137	385	104	489
Integrated Disease Management	13	208	43	251	77	47	124	285	90	375
Bio-control of pests and diseases	04	69	07	76	03	0	03	72	7	79
Production of bio control agents and bio pesticides	05	236	47	283	39	23	62	275	70	345
Total	31	815	147	962	202	124	326	1017	271	1288
VIII Fisheries										1
IX Production of Inputs at site										1
Seed Production	01	18	3	21	0	0	0	18	3	21
Planting material production								0	0	0
Bio-agents production	03	45	3	48	0	0	0	45	3	48

Bio-pesticides production	4	33	4	37	0	0	0	33	4	37
Bio-fertilizer production								0	0	0
Vermi-compost production	5	55	6	61	0	0	0	55	6	61
Organic manures production	6	69	4	73	0	0	0	69	4	73
Production of fry and fingerlings								0	0	0
Production of Bee-colonies and wax sheets	01	15	3	18	0	0	0	15	3	18
Small tools and implements								0	0	0
Production of livestock feed and fodder	3	88	4	92	0	0	0	88	4	92
Production of Fish feed								0	0	0
Mushroom Production								0	0	0
Apiculture	02	33	20	53	0	0	0	33	20	53
Total	25	356	47	403	0	0	0	356	47	403
X CapacityBuilding and Group Dynamics										
X CapacityBuilding and Group Dynamics Leadership development	01	12	5	17	0	0	0	12	5	17
	01 01	12 18	5 4	17 22	0	0	0 0	12 18	5 4	17 22
Leadership development										
Leadership development Group dynamics	01	18	4	22	0	0	0	18	4	22
Leadership development Group dynamics Formation and Management of SHGs	01	18 25	4 7	22 32	0	0	0 0	18 25	4 7	22 32
Leadership development Group dynamics Formation and Management of SHGs Mobilization of social capital	01 01 01	18 25 14	4 7 4	22 32 18	0 0	0 0 0	0 0 0	18 25 14	7 4	22 32 18
Leadership development Group dynamics Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths	01 01 01 01	18 25 14 25	4 7 4 7	22 32 18 32	0 0 0 0	0 0 0 0	0 0 0 0	18 25 14 25	4 7 4 7	22 32 18 32
Leadership development Group dynamics Formation and Management of SHGs Mobilization of social capital Entrepreneurial development of farmers/youths WTO and IPR issues	01 01 01 01 01	18 25 14 25 19	4 7 4 7 2	22 32 18 32 19	0 0 0 0 0	0 0 0 0	0 0 0 0	18 25 14 25 19	4 7 4 7 2	22 32 18 32 21

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

raining for Kurai Youths including sponsored training p	No. of	No. of Participants									
Area of training	Cours	Gei	neral/ Oth	ers		SC/ST		(Frand Tota	al	
	es	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Nursery Management of Horticulture crops	01	0	15	15	10	0	10	10	15	25	
Training and pruning of orchards	01	12	115	127	05	25	30	17	140	157	
Protected cultivation of vegetable crops	01	40	0	40	20	0	20	60	0	60	
Commercial fruit production											
Integrated farming	01	08	0	08	02	02	02	10	0	10	
Seed production	01	32	0	32	30	0	30	62	0	62	
Production of organic inputs	01	38	0	38	15	0	15	53	0	53	
Planting material production	01	30	0	30	12	0	12	18	12	30	
Vermi-culture											
Mushroom Production	01	08	0	08	02	0	02	10	0	10	
Bee-keeping	01	33	06	39	0	0	0	33	06	39	
Sericulture	01	60	0	60	80	0	80	140	0	140	
Repair and maintenance of farm machinery and implements											
Value addition	01	0	20	20	0	18	18	0	38	38	
Small scale processing	01	16	0	16	15	0	15	31	0	31	
Post Harvest Technology	01	18	05	23	03	03	06	21	08	29	
Tailoring and Stitching											
Rural Crafts											
Production of quality animal products	01	30	02	32	24	02	26	56	04	58	
Dairying	01	19	0	19	13	0	13	32	0	32	
Sheep and goat rearing	01	27	0	27	18	0	18	35	0	35	
Quail farming											
Poultry production	01	10	01	11	09	01	10	19	02	21	
Shrimp farming											
Pearl culture	01	0	20	20	0	18	18	0	38	38	
Cold water fisheries											
Fish harvest and processing technology											
Fry and fingerling rearing											
TOTAL	18	381	184	505	258	69	245	607	263	868	

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

	N C				No. of	f Participa	ants			
Area of training	No. of	Gen	eral/ Oth	ers		SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	01	80	0	80	40	0	40	120	0	120
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming	01	09	0	09	05	0	05	14	0	14
Seed production	01	19	05	24	08	0	08	27	05	32
Production of organic inputs	01	28	0	28	0	0	0	28	0	28
Planting material production										
Vermi-culture	01	20	0	20	18	0	18	38	0	38
Mushroom Production	01	14	04	18	0	0	0	14	04	18
Bee-keeping										
Sericulture	01	19	05	24	0	0	0	19	05	24
Repair and maintenance of farm machinery and										
implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products	01	45	7	52	0	0	0	45	7	52
Dairying	02	48	4	52	0	0	0	48	4	52
Sheep and goat rearing	01	42	10	52	10	05	15	52	15	67
Poultry production	01	18	4	22	0	0	0	18	4	22
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
TOTAL	12	342	39	381	81	5	86	423	44	467

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

	N C				No. of	Participa	nts			
Area of training	No. of	G	eneral/ Oth	ers		SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops	02	80	15	95	50	0	50	130	15	145
Training and pruning of orchards	01	12	115	127	05	25	30	17	140	157
Protected cultivation of vegetable crops	01	40	0	40	20	0	20	60	0	60
Commercial fruit production										
Integrated farming	02	17	0	17	07	02	07	24	0	24
Seed production	02	51	5	56	38	0	38	89	05	94
Production of organic inputs	02	66	0	66	15	0	15	81	0	81
Planting material production	01	30	0	30	12	0	12	18	12	30
Vermi-culture	01	20	0	20	18	0	18	38	0	38
Mushroom Production	02	22	4	26	2	0	2	24	04	28
Bee-keeping	01	33	06	39	0	0	0	33	06	39
Sericulture	02	79	05	24	80	0	0	159	05	164
Repair and maintenance of farm machinery and										
implements										
Value addition	01	0	20	20	0	18	18	0	38	38
Small scale processing	01	16	0	16	15	0	15	31	0	31
Post Harvest Technology	01	18	05	23	03	03	06	21	08	29
Tailoring and Stitching										
Rural Crafts										<u> </u>
Production of quality animal products	02	75	07	84	24	02	26	99	11	110
Dairying	03	67	04	71	13	0	13	80	04	84
Sheep and goat rearing	02	69	10	79	28	05	33	87	15	102
Quail farming										
Poultry production	02	28	05	33	09	01	10	37	06	43
Ornamental fisheries										
Pearl culture	01	0	20	20	0	18	18	0	38	38
Cold water fisheries										<u> </u>
Fish harvest and processing technology										
Fry and fingerling rearing										
TOTAL	30	723	221	886	339	74	331	1028	307	1335

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

	No. of				No.	of Particip	ants			
Area of training	Courses	Ge	eneral/ Oth	ers		SC/ST		(Grand Tota	al
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	01	40	0	40	0	0	0	40	0	40
Integrated Pest Management	04	128	35	163	10	02	12	138	37	175
Integrated Nutrient management	01	32	12	44	0	0	0	32	12	44
Rejuvenation of old orchards										
Protected cultivation technology	02	20	04	24	10	04	14	30	08	34
Production and use of organic inputs	01	12	10	22	10	80	18	22	18	40
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	01	12	04	16	0	0	0	12	04	16
Management in farm animals										
Livestock feed and fodder production										
Household food security										
TOTAL	10	244	65	309	30	14	44	274	79	349

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

	No. of - Courses -	No. of Participants									
Area of training		General/ Others				SC/ST		Grand Total			
		Male	Female	Total	Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops											
Integrated Pest Management	01	38	08	46	11	0	11	49	08	57	
Integrated Nutrient management											
Rejuvenation of old orchards											
Protected cultivation technology	01	279	0	279	0	0	0	279	0	279	
Production and use of organic inputs	01	19	0	19	08	0	08	27	0	27	
Care and maintenance of farm machinery and implements											

Gender mainstreaming through SHGs	01	15	2	17	0	0	0	15	2	17
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	•									
TOTAL	4	351	10	361	19	0	19	370	10	380

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

	No. of	No. of Participants									
Area of training	Courses	General/ Others			SC/ST			(Grand Tota	ıl	
	Courses	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Productivity enhancement in field crops	01	40	0	40	0	0	0	40	0	40	
Integrated Pest Management	05	166	43	209	21	02	23	187	45	232	
Integrated Nutrient management	01	32	12	44	0	0	0	32	12	44	
Rejuvenation of old orchards											
Protected cultivation technology	03	299	04	303	10	04	14	309	08	317	
Production and use of organic inputs	02	31	10	41	18	08	26	49	18	67	
Care and maintenance of farm machinery and implements											
Gender mainstreaming through SHGs	01	15	02	17	0	0	0	15	02	17	
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	01	12	04	16	0	0	0	12	04	16	
Management in farm animals											
Livestock feed and fodder production											
Household food security											
TOTAL	14	595	75	670	49	14	63	644	89	733	

Sponsored training programmes

	No. of				No. o	f Partic	ipants				
	Cours	General/ Others SC/ST Grand Total									
Area of training	es	Ma	Fem	Tot	Ma	Fem	Tot	Ma	Fem	Tot	
		le	ale	al	le	ale	al	le	ale	al	
Crop production and											
management											
Increasing production and											
productivity of crops											
Commercial production of											
vegetables											
Production and value addition											
Fruit Plants											
Ornamental plants											
Spices crops											
Soil health and fertility management											
Production of Inputs at site											
Methods of protective cultivation											
Others (pl. specify)											
Total											
Post harvest technology and value											
addition											
Processing and value addition											
Others (pl. specify)											
Total											
Farm machinery											
Farm machinery, tools and											
implements										<u> </u>	
Others (pl. specify)											
Total											
Livestock and fisheries				1						<u> </u>	
Livestock production and											
management											
Animal Nutrition Management										<u> </u>	
Animal Disease Management										<u> </u>	
Fisheries Nutrition										<u> </u>	
Fisheries Management											
Total										<u> </u>	
Home Science										<u> </u>	
Household nutritional security						-				<u> </u>	
Economic empowerment of women						1				<u> </u>	
Drudgery reduction of women						-					
Others (pl. specify)						-					
Total						-				 	
Agricultural Extension						-				 	
CapacityBuilding and Group											
Dynamics Others (all procific)						-				_	
Others (pl. specify)											
Total CDAND TOTAL						-				<u> </u>	
GRAND TOTAL]	<i>C</i> 1	1			<u> </u>			<u></u>	

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

	No of	No. of Participants										
A was of twaining	No. of Cours	Gene	ral/ Oth	ers		SC/ST	_	G	Grand Total			
Area of training	es	Male	Fema le	Tot al	Mal e	Fema le	Total	Mal e	Fema le	Total		
Crop production and												
management												
Commercial floriculture												
Commercial fruit production												
Commercial vegetable												
production												
Integrated crop management												
Organic farming												
Total												
Post harvest technology												
and value addition												
Value addition												
Total												
Livestock and fisheries												
Dairy farming												
Composite fish culture												
Sheep and goat rearing												
Piggery												
Poultry farming												
Total												
Income generation												
activities												
Vermicomposting												
Production of bio-agents,												
bio-pesticides,												
bio-fertilizers etc.												
Repair and maintenance of												
farm machinery												
and implements												
Rural Crafts												
Seed production												
Sericulture												
Mushroom cultivation												
Nursery, grafting etc.												
Tailoring, stitching,												
embroidery, dying etc.												
Agril. para-workers, para-												
vet training												
Total												
Agricultural Extension												
Capacity building and group												
dynamics												
Total												
Grand Total										 		
Granu rotai	<u>i</u>	l .	1	1		L	l	l	L	<u> </u>		

3.5. Extension Programmes

			No. of	TOTAL
Activities	No. of programmes	No. of farmers	Extension	
			Personnel	
Advisory Services (Other than KMAS)	29	456	58	514
Diagnostic visits	26	850	65	915
Field Day	08	265	19	284
Group discussions	19	365	84	449
KisanGhosthi	08	254	17	271
Film Show	02	645	34	679
Self -help groups	05	128	05	133
KisanMela	02	412	19	431
Exhibition	02	745	89	834
Scientists' visit to farmers field	65	357	28	385
Plant/animal health camps	01	45	08	53
Farm Science Club	02	89	04	93
Ex-trainees Sammelan	01	14	01	15
Farmers' seminar/workshop	04	65	04	69
Method Demonstrations	09	235	13	248
Celebration of important days	08	278	14	292
Special day celebration	04	178	06	184
Exposure visits	08	145	04	149
Resource person	18	465	36	501
Total	221	5991	508	6499

Details of other extension programmes:

	Number
Particulars	
Electronic Media (CD./DVD)	1
Extension Literature	14
Newspaper coverage	37
Popular articles	4
Radio Talks	02
TV Talks	01
Animal health camps (Number of animals treated)	18
Social Media (No. of platforms Used)	04
Total	81

3.6 Online activities during year 2022

S. No	Activity Type	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live/ Zoom/ Google meet/ Webex etc.)	Title of Program	No. of Progra mmes	No. of Partici pants/ Views
A	Farmers training	Facebook live	Integrated Crop Management/Va rietal introduction	02	45
В	Farmers scientist's interaction programme	Zoom meeting	Kharif crop cultivation	01	30
	Grand Total (A+B)			03	75

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

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Sorghum	Parbhani Moti		20	60000/-	05
	Wheat	Lok-1		06	12075/-	05
Oilseeds	Soybean	KDS-726		05	32500/-	
	Soybean	MAUS-612		08	39600/-	
	Soybean	MACS-281		08	39600/-	
Pulses	Pigeon pea	BDN-716		25	40000/-	
	Chick pea	Phule Vikram		16	24000/-	
Commercial crops	Sugarcane	Co-8005		298 ton	715200/-	
Spices	Turmeric	Rhizome		8.35	44000/-	
Total			Total	96.35	962975/-	10

Production of planting materials by the KVK

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
Fruits	Guava	Sardar		40	2000	05
	Mango	Keshar		120	1800	15
Ornamental plants						
Medicinal and Aromatic						
Plantation						
Fodder crop saplings	Fodder	Super Napier Pecchong		3100	3100	02
Forest Species						
Total				3260	6900/-	22

Production of Bio-Products

	Name of the bio-product	Quantity		
Bio Products		Kg/Lit	Value (Rs.)	No. of Farmers
Bio-fungicide	Trichoderma	3916 kg	4,69,920/-	813
Bio-pesticide	Metarhizium	2160 kg	3,45,600/-	581
	Bioboost	2450 lit	2,45,000/-	500
Bio-pesticide	Neem ark	20 lit	1,200/-	14
	Panchamrut	05 lit	300/-	05
	Dashparni	55 lit	3,850/-	50
Bio Fertilizers	Decomposer	5 lit	250	03
Total			10,18,870/-	1966

Production of livestock materials

Particulars of Live stock	Name of the animal / bird / aquatics	Name of the breed	Type of Produce	unit (no./ lit/kg)	Quantit y	Value (Rs.)	No. of Farmer s
Dairy animals							
Cows							
Buffaloes	Buffalo	Jaffrabadi	Milk	Liter	555	24,975/-	10
Calves							
Bull (Draff)	Bull	N.D.		Number	02	55,000/-	01
Sheep and Goat	Goat	Osmanabadi	Meat	Number	03	18,100/-	03
Total					560	98,075/-	14

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				
News letters				
Technical				
bulletins				
Popular articles	Onion cultivation methods	Dr. Devikant	80	
-		Deshmukh		
	Turmeric cultivation	Dr. Devikant	150	
		Deshmukh		
	Turmeric disease management	Dr. Devikant	160	
		Deshmukh		
	Grampriya – Egg producing poultry	Dr. Mahesh Ambore	40	
	bird			
	Management of fodder in drought	Dr. Mahesh Ambore	100	
	condition			
	Marathwada region – Quality livestock	Dr. Mahesh Ambore	80	
	producing mine			
	Dog production business		50	
Extension	Goat farming	Dr.Ambore M.N	200	
literature	S			
	Groundnut cultivation	Mr. Sandip Jaybhaye	200	
	IPM in Groundnut	Mr. Kalyankar M. G	200	
	Ginger cultivation & Processing	Dr. Devikant	200	
		Deshmukh		
	IPM in Chick pea	Mr. Kalyankar M.G.	200	
	BT- cotton cultivation	Mr. Sandip Jaybhaye	200	
	Soybean cultivation	Mr. Sandip Jaybhaye	200	
	Green gram & Black gram cultivation	Mr. Sandip Jaybhaye	200	
	Kitchen gardening	Dr. Devikant	200	
	and the second s	Deshmukh	200	
	Custard apple cultivation	Dr. Devikant	200	
	Custain apple cultivation	Deshmukh	200	
	Soil testing	Mrs. Nadre S.R. Dr.	200	
	Son comig	Devikant Deshmukh,	200	
		Devikani Desimiukii,		

		Mr. Ingole R R	
	Red gram cultivation	Mr. Sandip Jaybhaye	500
	Turmeric cultivation	Dr. Devikant	500
		Deshmukh	
	Fodder cultivation of Phule Jaywant	Dr. Mahesh Ambore	500
	variety		
	Azolla Production for animals	Dr. Mahesh Ambore	500
	Pest management in cotton	Mr. Kalyankar M.G.	500
	Vermi compost management	Mrs. Nadre S. R.	500
	Rabi Sorghum Cultivation	Mr. Sandip Jaybhaye	500
	Wheat cultivation	Mr. Sandip Jaybhaye	500
	KVK at Glance	Mrs. Nadre S. R.,	500
	Drumstick cultivation	Dr. Devikant	500
		Deshmukh	
	Watermelon cultivation, Pest &	Dr. Devikant	500
	disease management	Deshmukh, Mr. Manik	
		Kalynkar	
TOTAL			8360

C. Details of Electronic Media Produced

S. No.	Type of media (CD / VCD / DVD/ Audio-Cassette)	Title of the programme	Number
1	CD	Nursery management	01

D. Details of Social Media Platforms Created / Used

S.	Type of social media	No of events	Title of social media	<mark>Number of</mark>
No.	platform	(uploaded		Followers/
		video/post/story etc.		Subscribers
1	YouTube Channel (no of	03	KVK Pokharni	256
	video uploaded)		Nanded-I	
2	Facebook page/ Account	190	Krishi Vigyan Kendra	6000
	(no of Post)		Pokharni Nanded	
3	Mobile Apps			
4	WhatsApp groups	895	356 groups	12545
5	Twitter Account	120	@kvknanded1	90

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).

Case Study

<u>Preparation of Organic Input, Brand making development and marketing</u> "Organic farmer becomes role model of the District"

Name of the farmer : Mr. Balwantrao Devrao Paul.

Age : 45 years

Village Name : Banchincholi, Tq. Hadgaon, Dist-Nanded

Farm Land : 15 acres **Educational Qualification** : S.S.C

He was doing farming in a traditional way with the intensive use of chemical fertilizers and pesticides since 10 years. But at last he comes to know that with more use of these chemicals, he is not only increasing cost of production, but at the same time soil productivity and fertility is being decreasing with heavy economic loss and thus then he determine to follow organic farming practice and production technology of all his own land, contacted KVK Pokharni Nanded-I for hands on training.

After day long visit and several interaction with KVK Scientist, Dr.Deshmukh D.A. Scientist (Horticulture) Sr.Scientist and Head(I/C) of KVK advised him to set up wormi compost unit with the help of State Agriculture department Nanded. After getting hands on training on organic farming from KVK Pokharni Nanded-I he begins with 10 beds of wormi compost and now reaches up to 40 beds. He released 2 kg wormi-culture into each bed. For quick and fast composting of bed material he use 3-4 kg jiggery solution, 2 liter curd, 3 kg basan flour (Chick pea flour) and 25-30 liter of water and he mix all above mentioned ingredients and stir well and apply over every bed regularly. Thus after 3 months he received one tones of fine wormi-compost from each bed and thus received 40 tones of fine pure organic wormi-compost from 40 beds. Out of this he used some part of this for his own farm and remaining wormi-compost packed in a bag of 40 kg which he sold in market at the rate of Rs.600/- by the brand name "Vasuda Gold". Farmers from neighboring district Hingoli, Parbhani, Yevatmal, and Nanded itself purchased from him and thus he received near about Rs. 3-4 lakh every year from this organic unit.

For continuous and consistent supply of this organic product, it requires large amount of cow dung, Urine for this requirement. He with his own money purchased *Gir* breed cows and start "Go shala" on his own farm by spending Rs.500000/-. He also cultivated Guava on 1 hector land by organic way and thus receives Rs.40000/- during first season. He also cultivated and raised vegetables and other food grains, Pulses, Millets by organic way and sale to consumers at a reasonable price. Thus with his own hard work talent and noble means and with the interventions of KVK Pokharni Nanded-I and State Agriculture Department Nanded, Shri. Balwantrao Poul now become role model of the District and well known resource person in the field of organic and now purchased 8 acres more land farming, which is also maintained purely on organic basis. He also guide the farmers as well as young rural youth to move towards this organic farming and thus reach up to 25000 farmers through social media. By considering all his hard work, devotion, dedication towards organic farming "State Agriculture department, Nanded" honored him with Krishi Bhushan Puraskar and KVK Nanded-I, recognize him as a master trainer and resource person for organic farming.

"Live Organic, Eat Organic" is his moto.







2. Success Story on Natural farming

Name of Farmer : Shri Rangrao Madhavrao Bhutnar

Village : Chinchgavhan

Taluka : Hadgaon
District : Nanded
Education : 12th



Introduction:

Shri. Rangrao Madhavrao Bhutnar, residence of the village Chinchgavhan Tal. Hadgaon, Dist. Nanded. This village is under the periphery of the KVK i.e. 45 km away from the KVK Centre, so most of the farmers are attached with KVK for Natural farming and Organic farming latest technology adopted in their field. The selected farmer Shri. Rangrao Madhavrao Bhutnar as 50 years old, he had total land holding 8 acre. Total area under Kharif Season Soybean, Turmeric Pigeon pea, Green gram, wheat and Sorghum as per cropping pattern grown by the farmer and he had taken normal yield up to 20-22 qt/ha from Soybean and 20-25 qt/acre from Turmeric under rainfed situation. But at the time of field survey and soil testing identified that there is a gaps in adoption and the effect of its day by day reduction yield due to the heavy use of inorganic fertilizer pesticide, insecticide it is due to reduction of soil fertility micro organism in soil due to loss of more yields. The farmers are not aware about the importance of natural farming then he decided to work in natural farming by using FYM, Compost, Vermi compost and other organic input in crop production. Now he prepared Dal & Turmeric powder under organic farming & he sold his own prepared organic products with labelling in the market. Due to use of natural farming soil fertility got increased as well as crop yield. Now he is satisfied by getting above said impacts.

Training and guidance of KVK

He attend week long training programme on "On farm production of bio pesticide & also on Organic Farming Management" under skill training of rural youth (STRY). The programme was organised for rural youth Krishi Vigyan Kendra, Pokharni, Nanded – 1 sponsored by MANAGE, Hyderabad & ATMA, Nanded. He successfully utilized knowledge and skill acquired during the training to increase his farm income & become model of Natural Farming & entrepreneur for others to emulate under the influence & Guidance timely by the KVK scientists.

Practices adopted

- 1) Adopted Natural farming since 2013. The field is registered with Sri Institute of Agriculture Science and Technology Bangalore PGS-India National Standard for Organic Production.
- 2) Cultivated Soybean, Pigeon pea, Wheat, Turmeric, Sorghum and vegetable on 8 acre under natural farming.
- 3) Prepared and used *Bijamrut*, *Jivamrut* for seed treatment and nutrition management.
- 4) Prepared and used *Dashparni Ark, Neem Ark, Agniastra* for controlling pests.
- 5) Used bio fertilizer like Rhizobium, PSB, Potassium Solubilising bacteria and vermi compost reared two Desi cow.
- 6) Processing of organic value added products as a *Sri Krushna Go Adharit* natural productions like Turmeric Powder, *Tur Dal* in satisfactory cost.
- 7) Participate in exhibition and Krushi Dhanya Mohtsav and forums regularly.
- 8) Sell Tur Dal and Turmeric Powder with label packaging.
- 9) Participate in District, State Level and KVK Natural farming trainings.

Comparison between Natural Farming and Conventional Farming

Crops	Cost of Cultivation (ha)		Gross Return (ha)		Net Return (After value added) (ha)		BC ratio	
	NF	CF	NF	CF	NF	CF	NF	CF
Soybean	27250	29150	165000	116875	137750	87725	6.0	4.00
Turmeric	120000	180250	406250	373750	286250	193500	3.38	2.07
Wheat	14820	17820	110200	75000	95380	57180	7.43	4.20
Pigeon	15500	16650	130000	81250	114500	64600	8.38	4.87
pea								

Dry Yield and selling rate pf value- added products

Crops	Value added products prepared	Dry yield (kg/ha)		Selling rate (Rs. / kg)	
		NF	CF	NF	CF
Turmeric	Powder	6250	5750	250	150
Pigeon pea	Dal	2000	21250	150	100

Benefits and achievements

- Utilize crop residues crop mulching.
- Improved Soil fertility & Soil micro organism
- Generate employment.
- Generate higher value addition of produce.
- Reduce input cost.
- Increase net income with use of natural fertilizer & bio insecticide.

Impact of the Technology

- Use of natural farming soil fertility got increased as well as crop yield. Now he is satisfied by getting above said impacts.
- Their cost price has been reduce a great extend and as a result of good production & good quality products are also been obtained.
- He also produce seeds of this crops in his field which he distributes to others farmers in the village.
- He inspired other farmers of the village also to start natural farming in their field by this method & the people of villages also come to his farm & show their eagerness to adopt his technology.













3. Success Story on Natural Farming

Name of Farmer : Smt. Sushma Dhananjay Dev

Village : Kothlaj Taluka : Hadgaon District : Nanded Education : M. Sc.



Introduction:

Smt. Sushma Dhananjay Dev age – 51 year old. She has been practicing natural farming since last 11 years. She is belongs to educated family. She was working for good salary in National Pvt.Company in Mumbai. She has left her job because her choice to work in farming. Then she come to Kothluj village in the rural area of the Tq. Hadgaon of the Nanded District & started farming are also doing selflessly that our future generation should have organically grown food grain without the use of Chemical fertilizers. She is ding natural farming herself and encouraging to the other farmers to adopt this type of farming. Initially she started 5 beds of vermin composting. She has a total land of 27 acre which is rain fed. She has 2 Desi Cow. She cultivates her farm by paying charges and she doesn't have machineries of her own. So she hired the tractor to cultivate land and also crushing sugarcane trash in her farm. She always thought about to do different from another farmers. After coming in the contact of KVK, Nanded, she started the cultivation of Soybean, Turmeric, Sugarcane, wheat, chick pea & some vegetables for own purpose purely under organic farming in the year 2012. In the beginning she faced the problems like low yield due to no use of inorganic fertilizers but with the time advice from KVK & ATMA about the natural farming used the organic inputs like Jiwamrut, Dashparni Ark, Neem Ark, Vermi Compost, Trichoderma & Metarizium etc.

Training and guidance of KVK

She attend week long training programme on "Organic Farming Management" under skill training of rural youth (STRY). The programme was organised for rural youth Krishi Vigyan Kendra, Pokharni, Nanded – 1 sponsored by MANAGE, Hyderabad & ATMA, Nanded. She has received 6 days training on natural Farming from Padmashri Subhash Palekar on Online. She was impressed with the lecture given by him & to setup the natural Farming in her field. After getting training on natural Farming, she adopted natural farming in her field. After this various components Jiwamrut, Dashparni Ark, Neem Ark, Vermi Compost, Trichoderma, Metarizium & Agniastra etc. She made it in her farm and regularly used in her farm which brought very good crop condition. After seen the results the womenhood also learn the method from her use it in their field and adopted this farming system. She successfully utilized knowledge and skill acquired during the training to increase her farm income & become model of Natural Farming & entrepreneur for others to emulate under the influence & Guidance timely by the KVK scientists.

Practices adopted

- 1) Adopted Natural farming since 2012. The field is registered with Sri Institute of Agriculture Science and Technology Bangalore PGS-India National Standard for Organic Production.
- 2) Cultivated Soybean, Sugarcane, Wheat, Turmeric, and vegetable on 20 acre under natural farming.
- 3) Prepared and used *Bijamrut*, for seed treatment.
- 4) Use various types of inputs like Jiwamrut, amrut pani, decomposer, Ghanamrut.
- 5) Prepared and used *Dashparni Ark, Neem Ark, Agniastra* for controlling pests.
- 6) Used bio fertilizer like Rhizobium, PSB, Potassium Solubilising bacteria and vermi compost reared 3 Desi cow.
- 7) Use of Bio Fungicide like Tricoderma & Metarizium.
- 8) She crushing the sugarcane trash & decompose in field for increasing soil fertility.
- 9) Processing of organic value added products as a *Nandai Sendriy Vishmukt Sheti* natural production like Turmeric Powder, Bansi Gehu & black gehu & Tur Dal in satisfactory cost.
- 10) Participate in exhibition and Krushi Dhanya Mohtsav and forums regularly.
- 11) Selling Harbhara Dal, Turmeric Powder, Bansi, Black wheat with label packaging.
- 12) Participate in District, State Level and Natural farming trainings at KVK

Comparison between Natural Farming and Conventional Farming

Crops	Cost of Cultivation (ha)		Gross Return (ha)		Net Return (ha)		BC ratio	
	NF	CF	NF	CF	NF	CF	NF	CF
Soybean	28450	30250	110000	108625	81550	78375	3.86	3.59
Sugarcane	80850	118020	218750	187500	137900	69480	2.70	1.58
Wheat	18250	25000	115000	70400	96750	45400	6.30	2.81
chickpea	23521	27100	90000	85450	66459	58350	3.82	3.15

Dry Yield and selling rate pf value- added products

Crops	Value added products prepared	Dry yie	eld (kg/ha)	Selling rate (Rs. / kg)	
		NF	CF	NF	CF
Turmeric	Powder	6250	5750	250	150
chickpea	Dal	2000	21250	150	100
Bansi & BalckWheat	Gahu	4600	3520	30	20

Benefits and achievements

- Utilize crop residues crop mulching.
- Improved Soil fertility & Soil micro organism.
- Generate higher value addition of produce.
- Reduce input cost.
- Consulted by many farmers for natural farming.
- Consume and sold chemical free food grain to the community.
- Received Progressive Organic Farming award by Agriculture Department.

Impact of the Technology

- Their cost price has been reduce a great extend and as a result of good production & good quality products are also been obtained.
- She inspired other farm women and farmers of the village also to start natural farming in their field by this method & the people of villages also come to his farm & show their eagerness to adopt his technology.
- Proved to be an environment friendly technology as a natural farming nourish.
- She is also supplying quality & nutritive value of wheat like Bansi & Black to the sugarcane patient in satisfactory cost.
- Farmers visit her farm and she is very much interested in educating & motivating them in natural farming practices.





4. Success story Soybean under CFLD Oilseeds.

Name of KVK : Krishi Vigyan Kendra Pokharni Nanded-I Title of intervention : Integrated Crop Management in Soybean

Crop and Variety: Soybean, Variety- KDS-753

Name of farmer & Address: Shri. Kailas Anandrao Kadam, At-Sapti Ta-Hadgaon Dist-Nanded

Details of technology demonstrated:

Land preparation: After land preparation well setup farmers planted soybean in dibbling method like two lines on one bed prepared by three feet distance with each beds in one acre. one acre area he required only 12 kg seeds for dibbling with seed of KDS 753.

Seed treatment:-PSB+ Rhizobium 500ml + Trichoderma 100gm use for seed treatment.

Nutrient management:-Soil application of Fertilizer DAP @ 50kg + 10 kg sulphur as per soil test base at the time of sowing.

Plant protection:-1) Foliar application of Chloropiryphos @50ml + 50ml Hexaconozol + 100gm 19:19:19 water soluble fertilizer at 40 DAS. 2) Second Foliar application with emamectin benzoate 10gm+mancozeb 30 gm+ 12:61:0 100gm water soluble fertilizer at 55 DAS. 3) Foliar application of chlorantraniliprole @ 5ml + 0:52:34@100gm water soluble fertilizer at 88 DAS.

General technology :- 1) one weeding should be given at 25 DAS. 2) The application of FYM @ 10 tonn/acre. 3.soybean were sown dibbling method.

Institutional Involvement:

The involvement of the KVK scientists plan the 50 demonstrations on the basis of improved variety of KDS-753 are recommended on 0.4 ha and compare with farmer practice by the use of local variety JS-335 on that village conduct the farmer training programme field day, field school, Diagnostic field visit on different growth stages of the crop by the KVK Scientist Dr. Deshmukh D.A. Sr.scientist and Head(I/C), Mr. Kalyankar M.G. Scientist (Plant Protection), Mr. Jaybhaye S.H. Scientist (Agronomy), Dr.Deshmukh G.P. Scientist (Agricultural Extension).

Success Point: As per the below table revealed that yield level was increased by 36.14% over farmer cultivation practice. It is impact of the variety KDS-753 dibbling on bed with whole package of technology. To effect of the increase of harvesting yield and improved the net profit of this farmer.

Farmer Feedback:

- 1) This variety is not susceptible to yellow mosaic virus.
- 2)If this variety is dibbling on bed, the yield is above 30% more than normal sowing.
- 3) This variety was found to have higher number of pods, flowers and branches as compare to variety of JS-335.
- 4) The distance between two rows should be kept more than 18 inches for this variety, if the distance is less the yield may be reduce.
- 5) If soybean sown on dibbling method seed can be save, 10-12 kg seed is required per acre.

Yield (q/ha)				
Demonstration	35 Q/ha			
Potential yield of variety/technology	30 Q/ha			
District average	13.75			
State average	14.60			

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

Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	22.35	40040	122925	82885	3.07
Demonstration	35	40550	192500	151950	4.74
% Increase	36.14				



Crop Sown on dibbling Method

Crop on Pod development stage





Pod development stage



View of Soybean crop plot

5. Success Story on Chick pea under CFLD Pulses

Name of KVK: Krishi Vigyan Kendra Pokharni Nanded-I.

Title of intervention: To Demonstrate Yield potential Use of improved variety Phule vikram under whole component as compare to local check Vijay variety.

Crop and Variety: Chickpea, Phule vikram

Name of farmer & Address: Shri Sambhaji Ramrao Suryawanshi, At.Daryapur, Tq & Dist-Nanded

Details of technology demonstrated:

After land preparation well setup before Bed preparation one irrigation is given after drain moisture then sowing of chickpea variety of Phule vikram

- 1) Seed treatment:- PSB+ Rhizobium 200ml + Trichoderma 100gm use for seed treatment.
- 2) Nutrient management:- Soil application of Fertilizer DAP @ 50kg + 10 kg sulphur as per soil test base at the time of sowing.
- 3) Irrigation management: one irrigation given at time of branching stage and second irrigation given at time of pre flowering and last irrigation given at time of pod development stage

Plant protection:-1) Foliar application of Chloropiryphos @50ml + 5 % neem ark + 100gm 19:19:19 water soluble fertilizer at 35 DAS. 2) Second foliar application with emamectin benzoate 5gm+mancozeb 30 gm+12:61:0 100gm water soluble fertilizer with Microla 50 ml at 55 DAS. 3) Third foliar application of chlorantraniliprole @5ml + 0:52:34@100gm water soluble fertilizer at 75 DAS.

Use of pheromone trap 8 no per acr.

Use of wooden stick for bird stand

Sowing of sorghum crop on borderline for protection to main crop

General technology:- 1) one weeding should be given at 25 DAS.

- 2. Application of pre emergence herbicides pendimethalin 30 % EC after sowing of crop
- 3. Sowing of chickpea crop on 60 x10 cm with 28 kg seed required for one acre
- 4. One nipping practice followed at 40 DAS

Institutional Involvement: The involvement of the KVK scientists plan the 50 demonstrations on the basis of improved variety of Phule vikram are recommended on 0.4 ha and compare with farmer practice by the use of local variety vijay on that village conduct the farmer training programme field day, field school, Diagnostic field visit on different growth stages of the crop by the KVK scientist.

Success Point: As per the below table revealed that yield level was increased by 46.6% over farmer cultivation practice. It is impact of the variety phule vikram with whole package of technology. To effect of the increasing crop yield and improved the net profit of this farmer

Farmer Feedback: 1) It is suitable for late sowing. 2) It is suitable for mechanical harvesting. 3) It is observed high number of branches and number of pod. 4) It is observed less infestation of pest and disease particularly wilting problem not observed as compare to local check. 5) It is higher yield obtain as compare to local.

Yield (q/ha)	
Demonstration	27.5
Potential yield of variety/technology	40
District average	14.25
State average	10.91

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

Practice used	Yield (q/ha)	Gross cost (Rs/ha)	Gross income (Rs/ha)	Net income (Rs/ha)	B:C ratio
Farmer practices	18.75	38230	99375	61145	2.59
Demonstration	27.5	37200	145750	108550	3.91
% Increase	46.6	_			





Trainings and Distribution of inputs of Chick pea under CFLD Pulses 2022-23









Field view on pod development stage of Chick pea crop



Crop on branching stage

Pod developing stage



Crop on Maturity stage 81

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)

~		dered for technology development (in detail with s	
S. No.	Crop / Enterprise	ITK Practiced	Purpose of ITK
1	Banana	Most of the Banana farmers they are using dry grass and paddy straw to cover and protect the bunch from the sun burn and hot wind injuries.	winds and direct exposure of sunlight on the banana stalk to avoid breakage of bunch.
2	Turmeric and Banana	Both Turmeric and Banana Grower they are using old Sarris as a fence around the orchards.	To protect the banana and turmeric crop from the attack and injuries of wild pigs and other animals.
3	Fruit crops	Mostly fruit grower's sweet orange, mandarin growers in order to provide water to fruit crops under water deficit condition using plastic bottles few distance away from the main stream by burying down the cutted bottle in the ground so as to supply moisture to the roots to save orchards.	To save the orchards during hot summer under drought condition.
4	Sugarcane	Farmers they are using old saris all around the sugarcane crop field to protect from wild animals such as wild pigs and bears.	To protect the sugarcane attack from wild animals.
5	Sorghum	Tying plastic carry bags to sticks of 2' height and stacked in the boundary with escapement of 2 meter this technique is carried out scare away the squirrel from damaging the sorghum seed sown.	The sound of the whirling wind and bags caused will scare away squirrel & birds.
6	Groundnut	Use of polyethylene covers sticks in field scare off birds in groundnut.	To protect the groundnut from birds and wild animals.
7	Cotton & soybean	Rising of sorghum as mixed crop as cotton & soybean as bird perches.	The farmers raise sorghum as a mix crop scattered in cotton field. The grain of sorghum attacks the birds and served as a perches for the birds to reach the insect of cotton plants.
8	Cotton	Farmers grow 2-3 lines of Okra plants surrounding the cotton field. Cotton is more susceptible to insect pest like bollworm, worm and jassid etc. farmers believe that pest prefer okra plant as compare to cotton plant and attack first.	
9	Sugarcane	Mulching the field with trash.	To control the shoot borer in sugarcane leaf minor in groundnut.
10	Cattle	In case of Alopecia topical application of groundnut oil and turmeric paste is apply.	grow the hairs.
11	Cattle & Buffalo	In case of Alopecia farmers make juice of early stage wheat leaf and apply on the patches of hair loss.	It is used for growing of hairs.
12	Cotton	this row.	application. 1-2 labors are sufficient for this.
13	Rabi season	Use of preventive measure waste tapes is binding to Jawar head at the milk stage of jawar.	To protection from birds.

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

A. Practicing Farmers

a) PRA Survey. B) Farmers and scientist interaction. C) Field day d) Training program

B. Rural Youth

a) Group discussion. B) Skill development counseling. C) Exposure visit d) Training program.

C. In-service personnel

a) Field visit. B) Diagnostic visit. C) Field level observations. D) Training program

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) Sapti, Tq.Hadgaon
- ii. No. of farm families selected per village :42
- iii. No. of survey/PRA conducted :01
- iv. No. of technologies taken to the adopted villages: 01
- v. Name of the technologies found suitable by the farmers of the adopted villages: Selection of improved variety.
- vi. Impact (production, income, employment, area/technological- horizontal/vertical): Vertical
- vii. Constraints if any in the continued application of these improved technologies

6. LINKAGES

A. Functional linkage with different organizations

Name of organization	Nature of linkage
National Institute of Plant Health Management,	Transfer of technology for On Farm Production of
Hyderabad.	Bio Pesticides, Bio Fertilizers and Bio Agent.
	Collaborative Symposium on different crop.
Vasantrao Naik Marathwada Agricultural	Continuously provide all possible technical guidance
University, Parbhani.	to KVK scientist.
	i) Participate in Kisan Mela, Farmers rally & and
D.S.A.O.	visits of various research trails.
A.H. Department	Participation in Seminars, Cattle Show, Cattle Camp, and Organized by KVK supply inputs like layers, goats, vaccines etc. to ex-trainees gives training on Poultry management, Goat Management.
Dept. of Horticulture	Supplied Horticulture and Forest Plants. Giving Technical advices to selected farmers by KVK. Jointly working on demonstration of fruit crops cultivation.
Dept. of Sericulture	Gives training to KVK farmers, supply mulberry stumps, eggs and other material require for rearing to trainees.
Cotton Research Station, Nanded	Arranging monthly workshop in order to discuss new research and technical achievements in a crop cultivation mainly Cotton.
Krishi vigyan Mandal	Arrange Shetkari Melava on organic farming and shown Video Film in the district.
A.I.R. Nanded & Parbhani	Co-operating in arranging Radio Talks of KVK selected farmers.
District industrial centre	Gives training to the unemployed rural youth
Zilla Parishad (ICDP)	Arranged Training for Anganvadi Sevika, Supervisor in supplemental foods. Diet of permanence Lactating mother.
Maharashtra Council of Agricultural Education and	Consultancy and Self-Employment courses for Rural
Research (MCAER) Pune.	unemployed youth.
PDBC, Bangalore.	IPM and Biological methods for controlling plant diseases and pests, which is researched by PDBC.
NIAM, Faridabad	Training on Rural Godown
NABARD	Set up of SHG in rural areas. Formation of TTC in the villages.
Dist. Fisheries Dept, Nanded	For conducting training programme.
Govt. Aurvedic College Nanded	Co-ordination and affiliation.
Dept. of health, DOH, Nanded	Joins working on nutrition training programme for the people of SC/ST and below poverty line.
ATMA Nanded	Training Programme. Field Visit and other extension activities.
SRTMU, Nanded	Training, Extension & Research.
NES science college Nanded	Training & Research.
MANAGE Hyderabad	Certificate course for input dealers (Fertilizer, Insecticide, Pesticide)
VANAMATI Nagpur	Certificate course for input dealers(Fertilizer, Insecticide, Pesticide)

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.)
Certificate Course for			
Integrated Nutrient			
Management for	21/09/2022	MANAGE Hyderabad	3,60,000/-
fertilizer dealer			
(CCINM) (15 days)			
Skill Training for Rural			
Youth (STRY)- (7 days)	17/01/2023	MANAGE Hyderabad	1,68,000/-
– 4 trainings on STRY		-	

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 and ATMA Nanded in joint collaboration with state agriculture department nanded prepared SREP of the district.

Coordination activities between KVK and ATMA

S. No.	Programme	Particulars	No. of programmes attended by KVK staff	No. of programmes Organized by KVK	No of Farmers attending
01	Meetings	Meetings	10	05	125
02	Research projects				
03	Training programmes	Training programme	24	15	580
04	Demonstrations	Demonstrations	03	03	25
05	Extension Programmes				
	KisanMela	Kisan Mela	01	01	124
	Technology Week				
	Exposure visit	Visit	02	01	30
	Exhibition	Exhibition	01	01	45
	Soil health camps				
	Animal Health Campaigns				
06	Publications				
	Video Films				
	Books				
	Book chapter				
	Extension Literature				
	Pamphlets				

D. Give details of programmes implemented under National Horticultural Mission

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

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	Expenditure during the reporting period in Rs.	Remarks

7. Convergence with other agencies and departments:

8. Innovative Farmers Meet

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

9. Farmers Field School (FFS)

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

10.1. Technical Feedback of the farmers about the technologies demonstrated and assessed:

Assessed:

- **Soybean** KDS-726 is long duration variety up to 115 day. It is high yielding variety 34% more yield than JS-335. The variety of MAUS-612 is to be sustained in heavy rainfall during maturity stage. It is high no. of branches and no. of pod. It is MAUS-612 resistant to yellow vein mosaic virus & it is also suitable dry situation. KDS-726 variety is susceptible to during dry spell situation.
- **Pigeon pea** It is high yielding variety 30% more yield than BDN-716. Red colour seed. It is high no. of branches and no. of pod. It is resistant to wilt disease Escape terminal drought. It's given in one time of maturity. The variety of BDN 716 is susceptible to wilt in this year but less than BSMR 736.
- Chick pea This sowing method saved 50% seed. This method is suitable in low land area. This sowing method gives good yield as well as economically feasible compare other methods of sowing of chick pea. The BBF sowing method significantly increase yield as well as yield attributing traits of the crops and also net return of farmers. It is due to less infestation of pest & diseases.
- **Pigeon pea** The seed treatment and spraying of Ridomil MZ reduces the wilting in Pigeon pea as compare to the neighbouring farmer's field to has adopt other method to manage the wilting in Pigeon pea. Seed treatment with the fungicide increases germination the vigor of the seedlings.
- **Tuberose** The flower grower/farmer of the district accepted the introduction of Arka Prajwal due to larger flower size and better market price and acceptability.
- **Turmeric** Farmer were grown Salem variety since many years observed that although it is 9 months old but the rhizome quality, weight and colour is very attractive beside this dry recovery from this is very high i.e 20% which fetch higher price in the market as compare to IISR-Pragati with recovery percentage is 14%.
- Cattle/ Buffalo Masti guards of TANUVAS / GADVASU was very excellent easy to use and there is no cuts tearing of teat skin and cracks. The appearance of teat is soft, smooth as compare to T3 & also having fly repelling property which is additional benefit.
- **Poultry** The Kaveri Birds are gaining the weight of 1 kg earlier than local breeds i.e. 1 month before. The laying is continuous as compare to local birds with good quality & weight.

Demonstrated:

- **Sorghum** It is higher yielding variety as compare to local *maldandi*. It is good quality grain and fodder also. It is less infestation of pest and diseases. Parbhani super moti is higher yield obtain under rainfed as well as irrigated condition.
- The training on IPM Technology is very effective for us to identify the different insect pest and beneficial insects.
- Use of Neem ark or NSKE 5% is very effective for manage the pest in early stages of crops. The number of Natural enemies have observed this year due to the use of NSKE. It is very easy to prepare at home.
- **Turmeric** Application of *Metarhizium anisopli* is very effective for controlling the white Grub in Turmeric.
- Chilli Ankur 930 is a popular and promising F1 of chili amongst district farmers, but when this F1 grown by raising seedlings and transplanting them in main field on mulching paper height of the plant recorded more with more number of flowers and fruits, less flower and fruit drop and fruit free from pest and disease. Percentage of weed is also less which saves extra expenditure on inter cultivation. This practice is now a days is very popular in chili growing areas of Nanded district.

10.2. Technical Feedback from the KVK Scientists (Subject wise) to the research institutions/universities:

Plant Protection:

- IPM technology is very useful in every crop for reducing cost of plant protection up to 40 to 60 %. It was very effective in Soybean, Turmeric, Chick pea and Pigeon pea for management of pest and diseases.
- Installation of Pheromone traps for monitoring and trapping of the pest is very cost effective method for reducing the pest population. Most of the farmers have installed the pheromone traps in Soybean, Chick pea and Pigeon pea for management of pest and diseases.
- Rhizome seed treatment and drenching with Trichoderma in Turmeric crop for effective management of Rhizome rot.
- Field days celebration helps to aware the farmers about IPM technology.

Agronomy:

- It observed that the pre emerge herbicide got very good result as compared to post emergence.
- The farmers face the problem of application of post emergence herbicide due to heavy rainfall so these application not given in time.
- The B:C ratio of pre emergence herbicides is her than post emergence as well as farmer practice.
- The higher yield obtained from farmers practice as compare to post emergence herbicide but less than pre emergence herbicide.

Horticulture:

State

Meetings

No.of

farmers

No.

• Instead of blue color skirting bag if white color skirting bags available this helps in clear visibility of bunch development.

11. Technology Week celebration during 2022: No

Gosthies

No.

No.of

farmers

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

A. Introduction of alternate crops/varieties

State		Crops/c	ultivars	Area (ha)		Nu	Number of beneficiaries		
B. Major area co	verage 11	nder altern	ate crons/su	orieties					
Crops	verage u	nder anem	Area (ha)		N	umbe	er of bene	ficiaries	
Сторз			Tirea (na)			1	umb	or or bene	
C. Farmers-scien	tists inte	eraction on	livestock m	nanager	nent				
State	State Livestock con		onents	Num	ber of inter	actions	No.	of particip	oants
D. Animal health									
State	State Number of cam		os No.of animals					No.of farmers	
E. Seed distribut	ion in dr	ought hit st			ution/sold by	(KVK)			
State	(Crops	Quantity	(qtl)	Coverage	e of area (ha)		Number of farmers	
F. Large scale ad	loption o	f resource	conservatio	n techr	nologies				
		_	f resource	conser	rvation Area (ha		(ha) Number of farmers		ber of farmers
technole	ogies int	roduced							
G. Awareness ca	mpaign								

Farmers fair

No.of

farmers

No.

Exhibition

No.

No.of

farmers

Film show

No.of

farmers

No.

Field days

No.of

farmers

No.

13. IMPACT

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

Name of specific	No. of	% of	Change in income (Rs.)		
technology/skill	participants	adoption	Before	After	
transferred			(Rs./Unit)	(Rs./Unit)	
Improved variety	60	65	612	1352	
Improved variety	35	30	2412	4250	
Improved variety	45	60	760	1150	
Improved variety	30	55	1950	2520	

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	No. of feedback / query	
		SMS was sent	on SMS sent	
Jan 2022	1	1225		
Feb 2022	1	1203		
March 2022	1	1343		
April 2022	1	1343		
May 2022	1	1661		
Jun 2022	1	1675		
Jul 2022	1	1663		
Aug 2022	1	1661		
Sept 2022	2	1989		
Oct 2022	1	1989		
Nov.2022	2	2070		
Dec.2022	1	2070		
Total	14	19892		

Name of			Type of Messages							
KVK	Message Type	Crop	Livesto ck	Weath er	Marke- ting	Aware- ness	Other enterprise	Total		
KVK	Text only	02	01		01	10	-	14		
Nanded-	Voice only	01				05		06		
I	Voice & Text both									
	Total Messages	03	02		02	15		20		
	Total farmers Benefitted	5890								

15. PERFORMANCE OF INFRASTRUCTURE IN KVK

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

Sl.	Demo Unit	Year of	Area	Detai	ils of production	Amoun	Rem		
No.	Demo Unit	establishment	(ha)	Variety Produce		Qty.	Cost of inputs	Gross income	arks
1	Vermi compost	2021	04 ponds	Eisenia fetida	Vermi compost				
2	Azolla unit	2013	150 sq. ft.						
3	Fodder unit	2013	0.025 ha	DHN-6, Phule Jaywanat	Green fodder	3100 (No.)		3100/-	
					Trichoderma	3916 kg			
					Metarhizium	2160 kg			
					Bioboost	2450 lit			
4	Bio organic unit	2017			Panchamrut	05 lit	90,195/-	10,18,870/-	
					Neem ark	20 lit			
					Dashparni	55 lit			
					Waste decomposer	05 lit			

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

b. Ferformance of instructional farm (Crops) including seed production									
Name of the crop	Date of sowing	Date of	Are a (ha)	Deta	ils of production		Amoun	ıt (Rs.)	Remarks
Name of the crop	Date of sowing	harvest	A (h	Variety	Type of Produce	Qty.	Cost of inputs	Gross income	Kemarks
Cereals									
Sorghum	14/10/2022	10/03/2023	02	Parbhani Moti	TF	30 Qtl	35200/-	90,000/-	
Wheat	20/11/2022	10/04/2023	0.80	Lok-1	-	20 Qtl	24250/-	40,250/-	
Pulses									
Pigeon pea	17/06/2022	20/01/2023	02	BDN-716	TF	25 Qtl	40000/-	1,62,500/-	
Chick pea	20/11/2022	20/03/2023	0.80	Phule Vikram	TF	16 Qtl	24000/-	72,000/-	
Oilseeds									
Soybean	23/06/2022	25/10/2022	04	KDS-726	TF	60 Qtl	125000/-	2,97,000/-	
Soybean			0.40	MAUS-612	TF	08 Qtl	12500/-	39,600/-	
Soybean	27/06/2022	21/10/2022	0.40	MACS-281	TF	08 Qtl	12300/-	39,600/-	
Spices & Plantation	n crops								
Turmeric	10/06/2021	12/04/2022	0.60	Selam		28 Qtl	42,600/-	1,38,000/-	
Sugarcane	17/10/2021	24/02/2022	04	Co-8005	-	298 ton	3,20,800/-	7,15,200/-	
Fruits									
Sapota		10/02/2023	1 acre	Kali patti	Fruit	1028 kg	2000/-	14,402/-	
Mango		19/03/2023	1 ha	Keshar, Dashari	Fruit	212.5 kg	3000/-	17,000/-	

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

Sl.	Bio	Name of the	0. 0. 0.0	Amou	D 1	
No.	Products	Product	Qty (kg/lit)	Cost of inputs	Gross income	Remarks
1	Bio- pesticides	Trichoderma	3916 kg		4,22,670/-	
2		Metarhizium	2160 kg		3,45,600/-	
3		Bioboost	2450 lit		2,45,000/-	
4		Panchamrut	05 lit	90195/-	300/-	
5	Bio- Fungicides	Neem ark	20 lit	90193/-	1,200/-	
6		Dashparni	55 lit		3,850/-	
7	Bio- Fertilizers	Waste decomposer	05 lit			
		•		90195/-	10,18,620/-	

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

Sl. Name		Deta	ils of producti	ion	Amou		
No	of the animal / bird / aquatics	Breed	Type of Produce	Qty.	Cost of inputs	Gross income	Remarks
1	Buffalo	Jaffrabadi	Milk	555 liter		24,975/-	
2	Bull	N.D.		02 (No.)		55,000/-	
3	Goat	Osmanabadi	Meat	02 (No.)		18,100/-	
						98,075/-	

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 2022			
February 2022			
March 2022			
April 2022			
May 2022			
June 2022			
July 2022			
August 2022			
September 2022			
October 2022			
November 2022			
December 2022			

F. Database management

S. No	Database target	Database created

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

Amou	Expendit	Details of		Activities conducted					
nt sancti on (Rs.)	ure (Rs.)	infrastruct ure created / micro irrigation system etc.	No. of Training program mes	No. of Demonstra tion s	No. of plant materi als produc ed	Visit by farme rs (No.)	Visit by offici als (No.)	ty of water harvest ed in '000 litres	irrigate d / utilizati on pattern

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

Tiutificiali Gui dei	acteroped at 1x t 1x faith		
Area under nutritional garden (ha)	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers visited
	Vegetable crops		
	Fruit crops		
	Others if any		

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

No. of Villages covered	Component of Nutritional Garden	No. of species / plants in nutritional garden	No. of farmers covered
Dhamdari,	Vegetable crops	17	07
Tq.Ardhapur			

H. Details of Skill Development Trainings organized

	Name of	Name of		No. of participants					
S.N	KVKs/SAUs	Name of QP/Job role	Durat ion	SCs/STs		Others		Total	
0.	/ICAR	Name of Q1/300 fole	(hrs)	Ma	Fem	Ma	Fem	Ma	Fem
	Institutes		(1113)	le	ale	le	ale	le	ale
	KVK		07						
1	Nanded-I	Nursery Management	days	0	0	13	02	13	02
	KVK	On Farm Production on Bio pesticide	07						
2	Nanded-I	and Bio fertilizers	days	00	00	15	00	15	00
	KVK		07						
3	Nanded-I	Goat rearing & management	days	02	00	13	00	15	00
	KVK		07						
4	Nanded-I	Organic farming	days	02	00	13	00	15	00

17. FINANCIAL PERFORMANCE

A. Details of KVK Bank accounts

Bank	Name of	Location	Branch	Account	Account	MICR	IFSC
account	the bank		code	Name	Number	Number	Number
With	SBI	Nanded	0433	Jawaharlal	32939437775	-	SBIN0000433
Host				Nehru Institute			
Institute				of Education			
				science and			
				Technological			
				Research			
With	SBI	Nanded	0433	KRISHI	32939439159	431002881	SBIN0000433
KVK				VIGYAN			
				KENDRA			

B. Utilization of KVK funds during the year 2022-23 (Rs. in lakh)(Till March, 2023)

S.	Particulars	Sanctioned	Released	Expenditure
No.		Sanctioned	Released	Expenditure
A. Re	ecurring Contingencies			
1	Pay & Allowances	15603000	15603000	15566864
2	Traveling allowances	55000	55000	55616
3	Contingencies	607000	607000	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of			
	News Paper & Magazines)			119331
В	POL, repair of vehicles, tractor and Equipments			137056
C	Meals/refreshment for trainees (ceiling upto Rs.40/day/trainee be maintained)			24596
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			35820
E	Melawa			60346
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			17990
G	Printing material			38000
Н	Software professional fees and advertisement			44513
Ι	Establishment of Soil, Plant & Water Testing Laboratory			49351
J	Jeep and Tractor tyres and repairing			75362
K	Additional grant received	50000	50000	50135
	TOTAL (A)	16315000	16315000	16274980
B. No	on-Recurring Contingencies			
1	Works			
2	Equipments including SWTL & Furniture			
3	Vehicle (Four wheeler/Two wheeler)			
4	Library (Purchase of assets like books &			
	journals)			
TOT	AL (B)	Nil	Nil	Nil
	EVOLVING FUND			
	ND TOTAL (A+B+C)	16315000	16315000	16274980

C. Status of revolving fund (Rs. in lakh) for the Four years

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
April 2018 to March 2019	652613.05	4073771.56	4558295.10	168089.51
April 2019 to March 2020	168089.51	6848578	6818695.20	197972.31
April 2020 to March2021	197972.31	4559753.01	4653568.25	104157.07
April 2021 to March, 2022	104157.07	4306698	3898255.85	512599.22
April 2022 to March 2023	512599.22	4525672	4681014.35	357256.87

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

Name of the staff	Designation	Title of the training programme	Institute where attended	Mode (Online/ Offline)	Dates
Dr.Deshmukh D.A	SMS (Horticulture)	Carbon Finance for Agriculture towards climate	MANAGE Hyderabad	Online	20/01/2022
Dr. Ambore M.N.	SMS (Veterinary science)	Recent technologies of livestock based integrated farming system for doubling farmers income	BIRSA AGRI University, Ranchi, NAHEP & National Agri. Development Cooperative Ltd, Baramulla (UT of J & K)	Online	1 st to 21 st February 2022
Dr. Ambore M.N.	SMS (Veterinary science)	Entrepreneurship development through livestock and Veterinary science	National Research Center for Meat, Hyderabad	Online	8 th to 16 th March 2022
Dr.Deshmukh D.A	SMS (Horticulture)	Opportunity and scope of Agri business and farmers welfare society	Dr. PDKV Akola	Online	4 th to 6 th March 2022
Dr.Deshmukh D.A	SMS (Horticulture)	Plant quarantine procedure for import and export	NIPHM Hyderabad	Online	18 th to 22 nd April 2022
Mr. Wadile R.T.	Programme Assistant (Computer)	National Soil Health Card Portal Webinar	MANAGE Hyderabad	Online	28/04/2022
Dr.Deshmukh G.P.	SMS(Agricultur e Extension)	Workshop on Doubling Farmers Income (Excel Data)	ATARI Pune	Offline	17 th to 18 th May 2022

Mr. Wadile R.T.	Programme Assistant (Computer)	Workshop on Doubling Farmers Income (Excel Data)	ATARI Pune	Offline	17 th to 18 th May 2022
Dr.Deshmukh D.A	SMS (Horticulture)	e- Extension in Agriculture and Allied sector	MANAGE Hyderabad	Online	9 th to 13 th May 2022
Mr.Jaybhaye S.H.	SMS (Agronomy)	Sugarcane base Agripreneurship	MANAGE Hyderabad	Online	4 th to 6 th May 2022
Dr.Deshmukh D.A	SMS (Horticulture)	Pesticide formulation technique	NIPHM Hyderabad	Online	22 nd to 26 th August 2022
Dr.Deshmukh D.A	SMS (Horticulture)	Post harvest technology and Storage Technique	NIPHM Hyderabad	Online	19 th to 23 rd September 2022F

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

			\ / 0	1 /	
Name of the	Total No. of	Key	No. of	Change in income (Rs/unit)	
village	families	interventions	farmers	Before (base	After
	surveyed	implemented	covered in	year)	(current year)
			each		
			intervention		

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 of	No of Training	No of Beneficiarie	No of Extensio	No of Beneficiarie	No of Unit establishe	Change in income		No. Of Groups
Enterpris	Conducte	s	n	s	d	Befor	Afte	Forme
e	d		Activities			e	r	d

21. Details of SAP

S.	Types of major Activity conducted- SwachhtaPakhwada, Cleaning,	No. of	No. of
No.	Awareness Workshop, Microbial based Agricultural Waste	Programmes	Participants
	Management by Vermicomposting etc.	conducted	
1	Cleanliness, Sanitization, Awareness, Compost, Swachata week,	17	529
	Sanitization of toilet, Cleaning of KVK Campus, Sanitization of office		
	tables and chair, collection of waste		

Sr.	Name of	Date	Activity	No of	No of	Others	Total
No	KVK			VIPs	Farmers		
1	KVK	5/4/2022	Cleanliness, Sanitization, 04 42		42	0	46
	Nanded-I		Awareness, Compost				
2	KVK	10/05/2022	Cleanliness, Sanitization,	0	76	0	76
	Nanded-I		Awareness, Compost				
3	KVK	15/06/2022	Cleaning of KVK Campus,	05	33	0	38
	Nanded-I		Sanitization of office tables				
			and chair				
4	KVK	17/07/2022	Cleaning of KVK Campus,	0	62	0	62
	Nanded-I		Sanitization of office tables				
			and chair, collection of waste				
5	KVK	18/08/2022	Awareness, Swachata week,	01	69	0	70
	Nanded-I		Cleanliness, Sanitization of				
			toilet				
6	KVK	03/09/2022	Awareness, Swachata week,	02	87	0	89
	Nanded-I		Cleanliness, Sanitization of				
			toilet				
7	KVK	07/10/2022	Awareness, Swachata week,	0	129	0	129
	Nanded-I		Cleanliness, 0Sanitization of				
			toilet				
8	KVK	10/11/2022	Cleanliness, Sanitization,	0	19	0	19
	Nanded-I		Awareness, Compost				
9	KVK	16-	Swacchata Pakhwada	06	566	0	572
	Nanded-I	31/12/2022					
			Total	18	1083	0	1101

21. Books published 2022-23

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

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

APR SUMMARY

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	118	3373	783	4156
Rural youths	30	1028	307	1335
Extension functionaries	14	644	89	733
Sponsored Training	_	–	_	_
Vocational Training	_	<u> </u>	_	_
Total	162	5045	1179	6224

2. Frontline demonstrations

Crops/Enterprise	No. of Farmers	Area(ha)	Units/Animals
Oilseeds	95	38	03
Pulses	140	56	04
Cereals	10	04	01
Vegetables	20	04	02
Other crops	25	10	02
Hybrid crops	-	-	-
Total	290	112	12
Livestock & Fisheries	30		30
Other enterprises			
Total	30		30
Grand Total	320	112	12 / 30

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	06	40	40
Livestock	02	20	20
Various enterprises			
Total	08	60	60
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	08	60	60

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	221	6499
Other extension activities	81	
Total	302	6499

5. Mobile Advisory Services

		Type of Messages						
Name of KVK	Message Type	Crop	Livesto ck	Weath er	Marke- ting	Aware -ness	Other enterprise	Total
	Text only	02	01		01	10	-	14
VVV	Voice only	01				05		06
KVK Nanded-	Voice & Text both							
Nanded-	Total Messages	03	02		02	15		20
	Total farmers	5890						
	Benefitted	5890						

6. Seed & Planting Material Production

	Quintal/Number	Value (Rs.)
Seed (q)	96.35	962975/-
Planting material (No.)	3260	6900/-
Bio-Products (kg)	6076 (kg), 85 (liter)	10,18,620/-
Livestock Production (No.)	04 (No.), 555(liter)	98,075/-
	Total	2086570/-

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value (Rs.)
Soil	310	31000
Water	92	4600
Plant		
Total	402	35600

8. HRD and Publications

Sr. No.	Category	Number
1	Abstract	
2	Workshops	
3	Conferences	
4	Meetings	02
5	Trainings for KVK officials	12
6	Visits of KVK officials	02
7	Book published	
8	Training Manual	
9	Book chapters	
10	Booklet	
11	Leaflets/ Folder/ Pamphlet	12
12	Research papers	
13	Technical Bulletin	
14	Popular article	05
15	Lead papers	
16	Seminar papers	
17	Extension folder	
18	Proceedings	
19	Award & recognition	
20	On-going research projects	