INTRODUCTION

Krishi Vigyan Kendra has been sanctioned to Satpuda Education Society, Jalgaon Jamod, Buldana by Indian Council of Agriculture Research, New Delhi vide letter No. 3-4/94-KVK-AEII dated 19.10.1994 for catering need based trainings to Practicing Farmers, Rural Youth and In-service Extension Functionaries, on-farm testing and Front-Line Demonstration of different crops, which are grown in Buldana District.

KVK Jalgaon Jamod falls under agro-climatic zone "Western Plateau and Hills Region (IX)" with sub zones like Ghat track, Black plains and Saline Alkali track. Zone having annual rainfall range in between 750 to 900mm. Buldana district is located at the latitude: 19.51^0 to 21.170 North, longitude 75.57^0 to 76.49^0 and it is situated 305m above mean sea level.

Most of the area of Buldana district comes under black cotton soils. The major kharif crops grown in district are Cotton, Soybean, Pigeon Pea, Greengram and Blackgram. In rabi season crops such as Bengalgram, Wheat, Onion is grown. The district is having soybean and cotton based cropping pattern. In fruit crops fruits like Citrus, Banana, Custard Apple, Guava, Aonla are the major in district.

As per PRA Survey and need assessment, OFTs, FLDs, Training Programmes and Extension Activities are planned under different disciplines of KVK for the year 2023 and are given in prescribed format in forthcoming pages.

Buldana
Date: - 20.02.2023

(Anil T. Gabhane)
I/c.Sr. Scientist & Head
KVK Buldana-I (M.S.)

ICAR-ATARI, Pune

DETAILS OF ACTION PLAN OF KVKs DURING 2023

(1st January 2023 to 31st December 2023)

1. GENERAL INFORMATION ABOUT THE KVK

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

Address with PIN code	Telephone		E mail	Website address & No. of visitors (hits)
	Office	Fax		
Krishi Vigyan Kendra, Jalgaon Jamod, Dist: Buldana (M.S.) 443402	07266 - 221620	--	kvkbuldana@gmail.com	www.kvkbuldana.com

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

Address	Telephone		E mail	Website address
	Office	FAX		
Satpuda Education Society, Jalgaon Jamod, Dist: Buldana (M.S.) 443402	07266 - 221620	--	sesjj2015@gmail.com kvkbuldana@gmail.com	--

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

Name	Telephone / Contact		
	Office	Mobile	Email
Vikas G. Jadhao	--	9423338595	kvkbuldana@gmail.com

1.4. Year of sanction: October, 1994

1.5. Staff Position (as on January 31, 2023)

Sl. No.	Sanctioned post	Name of the incumbent	Mobile No	Discipline	If Permanent, Please indicate		Date of joining	If Temporary, pl. indicate the consolidated amount paid (Rs./month)
					Current Pay Matrix	Current Pay		
1	Sr. Scientist and Head	Vikas G. Jadhao	9423338595	Agril. Engg.	131400-217100	143600	28.11.18	Permanent
2	Subject Matter Specialist	Anil T. Gabhane	9527568788	Plant Protection	56100 – 177500	107500	27.06.95	Permanent
3	Subject Matter Specialist	Shyamsunder A. Borde	9850470123	Extension Education	56100 – 177500	87400	25.02.05	Permanent
4	Subject Matter Specialist	Sanjay M. Umale	9404710228	Agronomy	56100 – 177500	84900	19.06.06	Permanent
5	Subject Matter Specialist	Dr. Vinod S. Janotkar	9822728287	Vet Science	56100 – 177500	80000	18.12.08	Permanent
6	Subject Matter Specialist	Shashank P. Datey	9975019962	Horticulture	56100 – 177500	77700	08.07.09	Permanent
7	Subject Matter Specialist	Nitin P. Talokar	9404424501	Agril. Engg.	56100 – 177500	73200	08.03.11	Permanent
8	Programme Assistant (HS)	Vacant						
9	Computer Programmer	Yogesh R. Wakekar	9604357100	Computer	35400 - 112400	64100	19.02.02	Permanent
10	Farm Manager	Samadhan J. Bagade	9423266281	--	35400 - 112400	74300	17.06.95	Permanent
11	Assistant	Pradip E. Raut	9921860995	--	35400 – 112400	64100	10.07.95	Permanent
12	Stenographer	Vacant						
13	Driver	Mangesh S. Verulkar	9689877007	--	21700-69100	23800	13.11.18	Permanent
14	Driver	Vacant						
15	Supporting staff1	Ramesh T. Wankhade	9503629927	--	1800-56900	32400	01.08.96	Permanent
16	Supporting staff2	Ab. Samir Ab. Sadik Deshmukh	8600591228	--	1800-56900	19700	13.11.18	Permanent

1.6. Total land with KVK (in ha): 20.59 ha

S. No.	Item	Area (ha)
1	Under Buildings	1.00
2.	Under Demonstration Units	0.40
3.	Under Crops	13.82
4.	Horticulture	4.97
5.	Others if any	0.40
	Total	**20.59**

1.7. Infrastructural Development:

A. Buildings

S. N.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1	Administrative Building	ICAR	26.05.03	549.90	3407729/-	--	--	--
2	Farmers Hostel	ICAR	31.03.05	304.77	1739490/-	--	--	--
3	Staff Quarters (6)	ICAR	31.03.07	377.64	3197870/-	--	--	--
4	Demonstration Units (2)	ICAR	31.03.06	160.00	421335/-	--	--	--
5	Fencing	ICAR	31.03.06	2018rmt	486000/-	--	--	
6	Rain Water harvesting structure	ICAR	31.03.07	--	839665/-	---	--	--
7	Shed net house	NHM	30.06.09	525.00	212435/-	--	--	--
8	Polytunnel	NHM	30.06.09	213.00				
9	Vermicompost Unit	Agril. Dept.	2008	80.00	Completed	--	--	--
10	Threshing floor	ICAR	31.03.11	27.00	100050/-			
11	Farm godown	ICAR	31.03.11	67.66	500000/-			
12	Medicinal Nursery (Shadenet house)	NHM	30.03.13	525	400000/-	--	--	--
13	Minor millets processing unit	Agril. Dept.	31.03.13	660	400000/-	--	--	--
14	Compost Unit	ICAR	31.03.19	--	22500/-	--	--	--

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Motorcycle	Jan. 1995	40128/-	Closed	Not in working condition
Tractor (Massey Ferguson) procured under RKVY with implements such as BBF planter, Rotavator, Seed Drill,	Feb. 2012	700000/-	4917 hrs.	Working
Tractor (John Deer) procured through ICAR fund	Mar.2012	710000/-	4547 hrs	Working
Mobile Soil Testing Van Under Manav Vikas Programme	Mar. 2012	3500000/-	7926 km	Not in working condition
Jeep (Mahindra Bolero)	Nov. 2019	796500/-	52385 km	Working

C) Equipment's & AV aids

Name of the equipment	Year of purchase	Quantity	Cost (Rs.)	Present status
Equipment's				
Telephone	13.07.1995	01	2000.00	Working condition
Typewriter	19.08.95	01	9740.00	Not in Working condition
OHP with carrying case	30.12.95	01	7119.00	Working condition
Slide Projector with tray	30.12.95	01	15302.00	Working condition
Screen	30.12.95	02	2598.00	Not in Working condition
Camera	30.03.96	01	1695.00	Not in Working condition
Home Science utensils	95-96, 96-97	01 set	6662.00	Working condition
Refrigerator	28.03.96	01	12900.00	Not in Working condition
Mixture	13.03.95	01	2275.00	Working condition
Oven	13.03.96	01	2175.00	Working condition
Cooker	27.03.96	01	1200.00	Working condition
Sewing machine	30.11.95	01	3093.00	Working condition
Hipro Ginning Machine	2006-07	01	59280.00	Working condition
Generator	17.02.05	01	62200.00	Working condition
Inverter set	19.02.05	01	12781.00	Working condition
STL equipment & acc.	24.03.05	01 set	820153.00	Working condition
LPG connection (STL)	11.02.05	02	2740.00	Working condition
Refrigerator (STL)	08.02.05	01	15000.00	Working condition
Software (STL)	30.03.05		22040.00	Working condition
Computer with printer	23.03.06	02	99970.00	Working condition
LCD projector	Mar 06	01	77500.00	Working condition
TV	Feb 06	01	22100.00	Working condition

Xerox Machine	Mar 08	01	118800.0	Not in working condition
Laptop Comp.	Mar 08	01	31200.00	Working condition
Office almirah	28.02.95,19.08.95,11.03.96, 27.03.01,30.03.02, Mar 06	13	67300.00	Working condition
Office table	28.02.95,19.08.95, 11.03.96 30.03.96,15.12.96 16.02.05	18	44754.00	5 tables are not in working condition
Stool	19.08.95	06	1350.00	Not in Working condition
Chairs	28.02.95, 11.03.96	73	59870.00	12 Not in Working condition
Water cooler	Mar 06	02	27150.00	Working condition
Crates	28.02.95	06	2244.00	Not in Working condition
Trolley	28.02.95, 29.03.96	02	3200.00	Not in Working condition
Office utensils	05.08.95	Set	1417.00	Not in Working condition
Lock	1995-96,1996-97, 1997-98	11	807.00	Not in Working condition
Fan	19.09.95, 28.01.97	07	7275.00	4 Not in Working condition
Brief case	31.12.95	01	679.00	Not in Working condition
Lecture stand	30.03.96	01	2715.00	Working condition
Tube light	12.03.96	03	570.00	Not in Working condition
Library cases	11.03.96, 27.03.01	04	12400.00	Working condition
FH bed, bedding & Utensils 4 rooms	Mar 06	08	35504.00	Working condition
Training cum conference hall furniture	Mar 06		182045.00	Working condition
Iron Rack (sericulture)	28-29.11.95, 19.03.96	04	3556.00	Working condition
Drip irrigation set	29-03-95	1 set	7023.00	Not in Working condition
Wooden hoe	19.10.95	1	150.00	Not in Working condition
Secautor	30.11.95	10	1200.00	Not in Working condition
Knife	30.11.95	6	300.00	Not in Working condition
Duster	29.03.97	1	990.00	Not in Working condition
Knapsack sprayer	29.03.97	1	3650.00	Not in Working condition
Knapsack sprayer	29.03.97	3	3479.00	Not in working condition
Cultivator Blade	20.7.96	3	400.00	Not in Working condition
Rabbit cage	05.11.96	1	2107.00	Not in Working condition
Kudali	04.02.97	1	40.00	Not in Working condition
Matok	04.02.97	2	80.00	Not in Working condition
Bucket	05.02.97	1	75.00	Not in Working condition

Spade	04.02.97	5	220.00	Not in Working condition
Ghamela	05.02.97	6	420.00	Not in Working condition
Axe	20.07.96	1	50.00	Not in Working condition
Sericulture Unit implements	13-25.11.95		7201.00	Not in Working condition
Jack	30.03.96	1	380.00	Working condition
Disc harrow	2006-07	1	43304.00	Not in Working condition
Seed drill	2006-07	1	29102.00	Not in Working condition
Dibbler	2006-07	2	1500.00	Not in Working condition
Seed treatment drum	2006-07	1	1400.00	Working condition
Harrow	2006-07	1	2500.00	Not in Working condition
Bullock drawn ridger	2007-08	1	3000.00	Not in Working condition
Tractor drawn ridger	2007-08	1	20280.00	Not in Working condition
Rechargeable sprayer	2007-08	1	4400.00	Not in Working condition
Power sprayer	2007-08	1	16500.00	Not in Working condition
Laptop HCL	2007-08	1	31200.00	Working condition
Power tiller	2008-09	1	121000.0	Not in Working condition
Generator	2008-09	1	2610000.00	Working condition
Camera	2008-09	1	22000.00	Not in Working condition
PKV Dal Mill	2009-10	1	45800.00	Working condition
Window AC ONIDA	2009-10	1	13899.00	Provided by ICAR & ERNET India under E-linkage project
Godrej table	2009-10	06	45266.00	
Godrej chairs	2009-10	20	34166.00	
Godrej Printer table	2009-10	02	11041.00	
Rack	2009-10	01	6350.00	
Computer server system	2009-10	01	62400.00	
Desktop computer	2009-10	05	114400.00	
Laser printer	2009-10	01	13000.00	
Dot matrix printer	2009-10	01	17500.00	
Scanner	2009-10	1	5200.00	
Earthing switch	2009-10	1	6500.00	
UPS 650VA	2009-10	1	27040.00	
Online UPS 3 KVA	2009-10	1	95425.00	
VSAT	2009-10	1 set	138000.00	
Multimedia speaker, Headphone, Webcam	2009-10	5 set	--	
Stabilizer with battery	2009-10	1 set	--	
Pulverizer machine	2011-12	1	49028.00	Working condition
Systonic Digital Ph meter	2011-12	1	10940.00	Working condition (RF A/c)
Systonic digital conductivity meter	2011-12	1	12970.00	Working condition (RF A/c)
Systonic colorimeter	2011-12	1	17150.00	Working condition (RF A/c)
Distillation unit	2011-12	1	19260.00	Working condition (RF

				A/c)
Laptop Acer	2012-13	1	34000.00	Working condition
Mobile Phone with GPS	2012-13	1	20000.00	Working condition
Samsung Mobile Tab	2012-13	1	22500.00	Working condition
Mobile soil testing lab equipment's	2012-13	1 set	1431300.00	Under Manav Vikas
Servo Voltage Stabilizer	2012-13	1	22500.00	Working condition
Ahuja Wireless mounting amplifier	2012-13	1	11900.00	Working condition
Foot operated sealing machine	2012-13	1		Provided by Director Agri Processing & Planning Pune
Destoner	2013-14	1		
Dehuler	2013-14	1		
Floor shifter	2013-14	1		
Pulverizer	2013-14	1		
PKV Dal Mill	2013-14	1		Provided by Dr. PDKV Akola
Fruit Grader	2013-14	1		
LCD projector Benq	2014-15	1	23500.00	Working condition
Projector Screen	2014-15	1	3000.00	Working condition
Mike	2014-15	2	5530.00	Working condition
LCD projector BENQ	2016-17	1	27800.00	Working condition
Audio system Ahuja	2016-17	1 set	29520.00	Working condition
Desktop with printer	2016-17	1	39050.00	Working condition (RF a/c)
UPS	2016-17	2	3600.00	Working condition (RF a/c)
GPS meter	2016-17	1	15000.00	Working condition
Lenovo Tab	2016-17	1	9990.00	Working condition
Laptop HP	2016-17	1	37650.00	Working condition
Flame Photometer	2017-18	1	44480.00	Working condition
Spectro Photo Meter	2017-18	1	46600.00	Working condition
Colour Printer	2017-18	1	11000.00	Not in working condition
Mruda Parikshak Kit	2017-18	1	72000.00	Working condition
Distillation Unit	2017-18	1	42871.00	Working condition
Nitrogen Analyzer	2017-18	1	193260.00	Working condition
Solar Power Generating system	2017-18	1 set	738359.00	Working condition (RF A/c)
Reversible plough	2019-20	1	63000.00	Working condition
Cotton Slasher	2019-20	1	155000.00	Working condition
Post Hole Digger	2019-20	1	134999.00	Working condition
Desktop Computers	2020-21	2	72600.00	Working condition
Double distilled water unit	2020-21	1	117000.00	Working condition

1.8. Details of SAC meetings to be conducted in the year

Sl. No.	Particulars	Date
1	Scientific Advisory Committee – Meeting 1	July, 2023
2	Scientific Advisory Committee – Meeting 2	November, 2023

2. DETAILS OF JURISDICTIONAL AREA UNDER KVK (No. of Talukas – 07)

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

S. No	Farming system/enterprise
1	***Sole Crop(s)*** • Kharif Sorghum • Cotton
2	***Inter Cropping (s)*** • Cotton + Green gram — 1 : 1 • Cotton + Black gram — 1 : 1 • Cotton + Red gram — 8 : 2 or 10 : 2 • Sorghum + Green gram — 3 : 6 or 3 : 3 • Sorghum + Black gram — 3 : 6 or 3 : 3 • Sorghum + Red gram — 3 : 3 or 6 : 3 • Red gram + Green gram — 2 : 4 • Red gram + Black gram — 2 : 4 • Red gram + Soybean — 2 : 4 • Cotton + Sorghum + Red gram + Sorghum — 6 : 1 : 2 : 1 • Soybean + Sorghum + Red gram — 9 : 2 : 1
3	***Double Cropping: Rainfed situation (If late rains are received)*** • Green gram - Sunflower / Wheat / Gram / Safflower • Black gram - Safflower / Wheat / Gram / Onion • Soybean - Wheat / Gram / Onion

2.2. Description of Agro-Climatic Zone & Major Agro Ecological situations (based on soil and topography)

a. Soil type

Sl. No	Agro-climatic Zone	Characteristics
1	Ghat Tract	This sub-zone occupies greater part of Buldana District with 9 blocks viz. Chikhali, Buldana, Deulgaon Raja, Mehkar, Lonar, Malkapur, Sindhkhed Raja, Motala and Nandura. Elevation varies from 350 to 600 m above Sea Level. Annual rainfall varies from 750 to 850 mm. Soil ranges from very shallow to moderately deep. The topography is rolling and land slopes are around upto 7%. In this ghat tract Sorghum & Cotton are predominant crops.
2	Black Plains	This sub-zone spreads over Khamgaon and Shegaon blocks of Buldana districts along with 15 blocks of Akola and Amravati. Annual Precipitation varies from 750 to 900 mm. Soils are moderate to deep and predominantly vertisols with several situations of ill drainage due to that crop suffer more of wet conditions during years of relatively higher rains.

3	Saline Alkali Tract	This sub-zone includes major parts of 5 blocks viz. Jalgaon, Sangrampur, Shegaon, Nandura and Malkapur blocks of Buldana District. The soils are vertisols, deep and saline to saline alkali in reaction. Annual precipitation varies between 750 to 850 mm. Open wells in the tract have saline water as a result of which the same cannot be utilized for irrigation purpose. Cotton and Sorghum are the major crops of the tract together with rainfed wheat during rabi season. Poor drainage during rainy season is rampant.

b. Topography

S. No.	Agro ecological situation	Characteristics
1	AES I	The AES-I lies on the North-East part of the district with main characteristic of black cotton soil, high rainfall and hilly topography in another side. The blocks covered under this AES I are Sangrampur (95%) and Jalgaon Jamod (70%). The crops like cotton, wheat and gram grown in the area. The two villages Eklara (Bk) and Sungaon were selected as representative of AES for data collection.
2	AES II	This AES situated in West-North direction of the district. The blocks covered by AES II are Malkapur (100%), Nandura (100%), Shegaon (100%), Sangrampur (5%) and Khamgaon (15%). The main feature of AES II is plain topography with saline soil called *Kharpanpatta* locally. The major crops grown in this AES II are cotton, gram and sunflower. For the data collection two representative villages were selected namely Nipana and Kalkhed.
3	AES III	This AES situated in western side of the Buldana district. The blocks covered are Motala (100%), Buldana (100%) and Chikhali (30%). The Buldana and Chikhali are situated at high attitude as compared to Motala. The main features of AES III are hilly topography, medium to shallow soil. The major crops grown are cotton, jowar, maize, soyabean, wheat and gram. The horticultural crops custard apple, aonla and vegetable crops like, chilli, brinjal and tomato are also grown in this AES.
4	AES IV	AES IV comprises of Mehkar (100%), Khamgaon (85%) and Chikhali (70%) blocks. This AES is situated in east side of the district. The main feature of AES-IV is assured rainfall, well irrigated, medium to shallow soils. The AES-IV has favorable weather condition for grape production in Chikhali block. The agricultural crops grown in this area are soybean, cotton, jowar & maize in Kharif and gram & wheat in Rabi season. The horticultural crops grown in this AES IV are grape, Guava, mango, custard apple and sweet orange with vegetables like chili, onion, tomato and onion seed production. For data collection of AES IV, the two representative villages were selected namely, Nagzari and Hiwarkhed.
5	AES V	The AES-V is characterized by hilly and undulating topography, medium to shallow soils and rainfed area covering Deulgaon Raja (100%), Sindkhed Raja (100%) and Lonar (100%) blocks. This AES is situated in south of the district. The major crops grown in Kharif are soybean, Cotton, Jowar and Wheat, Gram, Safflower in rabi season. The major horticultural crops citrus, grapes, papaya, pomegranate grown in this AES. The climate is favorable for custard apple and aonla and has wide scope in this AES.

2.3. Soil Types

S. No	Soil type	Characteristics	Area in ha
1	Vertisoles	(Heavy black soil)	199318.00
2	Inseptisoles	(Medium black)	265757.00
3	Entisoles	(Light soil)	273139.00

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

S. No	Major Field Crop	Area (ha)	Production (MT)	Productivity (kg/ha)
Kharif Season				
1	Kharif Jowar	6695	7516.79	1122.75
2	Maize	25609	73344.18	2864
3	Bajra	585	351	600
4	Redgram	77957	80080	1027
5	Greengram	19220.50	13891.62	722.75
6	Blackgram	21580	16432.74	761.48
7	Soybean	387305	608910.85	1572
8	Ground Nut	355	346	974
9	Sesamum	976	236	242
10	Cotton	193903	91227.10	470.48
Rabi Season				
1	Rabi Jowar	12932	11742	908
2	Maize	24158	32557	1347
3	Wheat	95635	217514	2415
4	Bengalgram	177025	280159	1582
Summer Season				
1	Maize	251	377	1500
2	Summer groundnut	256	302	1180

(Source- Forth advance estimate, GOM 2021)

Area Production & Productivity of Major fruit crop in Buldana District

Sr. No.	Name of Crop	Area (Ha)	Production (ton)	Productivity (t/ha)
01	Mandarin	1489	10655	7.15
02	Aonla	70	627	8.89
03	Banana	564	16467	29.15
04	Custard-apple	240	3941	16.42
05	Guava	467	3497	09.35
06	Mango	312	1222	03.90
07	Papaya	291	3164	10.84
08	Pomegranate	764	7847	09.29
09	Sapota	72	453	06.28
10	Kagzi-lime	269	2134	07.90
11	Sweet Orange	421	5473	12.99

(Source- SAO, Buldana 2021)

Area Production & Productivity of Major Vegetable crop in Buldana District

Sr.No	Name of Crop	Area (Ha)	Production (ton)	Productivity (ton/ha)
01	Brinjal	464	5988	12.89
02	Cabbage	219	2360	10.76
03	Sweet pepper	27	183	6.79
04	Green Chilli	846	11799	13.93
05	Okra	290	1315	4.53
06	Onion	3877	28656	7.38
07	Tomato	518	6090	11.74
08	Ginger	211	2139	10.11
09	Turmeric	442	47208	106.69
10	Garlic	136	518	3.80
11	Cauliflower	229	2425	10.58

(Source- SAO, Buldana 2021)

2.5. Weather data

Month	Rainfall (mm)	Temperature 0 C		Relative Humidity (%)	
		Maximum	Minimum	Maximum	Minimum
January	0.0	26.3	13.4	71	51
February	0.0	31.3	15.7	50	33
March	13.2	36.5	22.3	41	26
April	0.0	40.7	26.8	27	17
May	0.0	40.3	26.7	45	23
June	126.8	36	25	61	54
July	376.6	28	22.1	89	82
August	243	29.7	21.9	84	73
September	218.5	29.7	22.3	86	84
October	151.5	29.8	20.4	80	76
November	0.0	29.2	13.9	55	47
December	0.0	29.4	15.6	69	54
Total / Average	**1140**	**32.24**	**20.51**	**63.17**	**51.67**
Source : IMD & Rainfall Recording, Analysis Department, Govt. of Maharashtra					

2.6. Production and Productivity of Livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbreed	10071	105.30	9.98
Indigenous	93344	129.80	1.48
Buffalo	129370	343.23	6.53
Sheep	93388	--	--
Goats	334757	--	--
Pigs	17151	--	--
Poultry	172000	--	--

(Source- District Statistics Dept, Buldana 2019)

2.7. Details of Operational area / Villages

Sl. No.	Name of Taluka	Name of the village	Major crops & enterprise	Major problem identified	Identified Thrust Areas
1 2	Jalgaon Jamod Sangra mpur	Patan Hadiya mahal	Cotton	Sowing of Cotton in light soil & rainfed situation. Management practices (wider spacing, Seed treatment, No proper gap filling, Protective irrigation at critical stages) Imbalance nutrient management (Soil test Based Fertilizer application Inadequate & low-Quality organic matter used) Improper Pest, diseases mgt.	Method, quantity & time of fertilizer application. Integrated Nutrient Management Integrated pest & diseases management.
			Soybean	Unawareness about New variety, No use of good quality seed, Imbalance nutrient management, (No use of 2%foliar spray of Urea) Improper Pest, diseases mgt.	New Variety, Integrated Nutrient Management, Proper Pest & diseases management
			Maize	Scarcity of Labour for Weeding, Higher cost for Weeding, Imbalance nutrient management	Weed Management, Integrated Nutrient management
			Red gram / Green-gram/ B.Gram /	Imbalance nutrient management, Excess Urea Application, Improper pest & disease management	Integrated Nutrient management, Foliar Application of 2% Urea, Integrated pest & diseases management

			Wheat	Low yield due to use of traditional crop varieties, Improper Sowing time, Imbalance nutrient management	Importance of New High Yielding Varieties, Nutrient management Weed Management
			Ground Nut	Unawareness about New Technology, Secondary and micronutrient deficiencies	BBF or Polyethylene Mulching, Nutrient management, Proper Pest & diseases management
			Horticult-ural crops	Non availability of guanine planting Material, Improper Management Practices, Improper Spacing, Imbalance Nutrient Management, Improper Insect Pest and disease Management, Improper use of irrigation facilities, Flower and fruit drop, Post-harvest losses of fruit Crops, Less returns due to direct selling, Non availability of value added products	Improved Nursery techniques for vegetable seedlings, Application of growth regulator in vegetable and fruit crops, Pre harvest & Post harvest techniques of vegetable, fruits & other Horticultural crops, Micronutrient application in Horticultural crops, Fruit & vegetable preservation, Irrigation management in Horticultural crops, Introduction of new Horticultural crops of low water requirement, Cultivation of tissue culture banana
			Soil & water conservati on (Agril. Engg.)	Improper tillage operation & seed bed preparation, Water scarcity, Non adoption of in-situ soil & water conservation techniques	Soil and water conservation,
			Irrigation	Improper method of irrigation	
			Post-Harvest Technology	Lack of knowledge of simple techniques of PHT *viz*. clean Cotton picking, grading,	Post-harvest technology, Care and maintenance of Plant Protection

				available fruit packaging grading & processing	equipments
			Mechanization	Lack of knowledge about improved Agriculture implements	Use of proper implements, Maintenance of tractor & tractor drawn implements,
			Drudgery in field operation	Drudgery in agricultural operation, Time consuming traditional method of operation	
			Cattle	Management & health, Non adoption of proper housing systems, Manage mental problems like identification, dehorning, castration, Unawareness about Vaccination, Irregular Deworming, Unavailability of timely treatment, Low Milk Yield	Formulation of balance ration for Dairy animals, Scientific feeding of animals, Ecto-parasitic infection in animals, Inbreeding problems in goat & dairy animals, Worms problems in animals, Improving backyard poultry, Proper housing of animals, Vaccination and healthcare in animals, Entrepreneurship development through Dairy, Poultry & Goatry
			Buffalo	High Mortality in Calves, Silent Heat, Highly Worms, Infection in Milch Buffalo	
			Goat & Sheep	Highly abortion rate, High incidence of FMD, Less Use of Concentrate in Feeding, Mortality in Rainy season	
			Poultry	Rearing of Deshi Breeds, lack of knowledge about proper Poultry management, High Cost of Feed, Higher Mortality, Effect of climate on poultry production	

			Agriculture Technology & Marketing	Lack of upgradation of improved agriculture, Weak extension linkage between extension workers & farmers, Improper adoption of Improved agriculture technologies, Women empowerment Unavailability of current market prices at village level	Taking up suitable measures to impart knowledge about modern agriculture amongst the farmers' community, Creation of awareness amongst the farmers, farmwomen, rural youth regarding improved agricultural technologies
			Rural Women & Child Nutrition, Hygiene & Health	Iron deficiency in women, Underweight & mal nutrition, Balance diet, Hygienic problems	Nutrient deficiency of farm women & child, Heavy physical stress due to tradition methods in agricultural operations, Women empowerment Value addition of agricultural commodities
			Women Drudgery reduction	Lack of awareness about agriculture tools & implements	
			Agro-processing & value addition	Heavy losses in agriculture commodities due to unavailability of agro processing facilities.	

2.8. Priority thrust areas:

Discipline	Thrust Area
Agronomy	
Cereals	
Maize	Integrated Nutrient Management, Weed Management, Crop Diversification.
Sorghum	Integrated Nutrient Management
Wheat	Variety, Integrated Nutrient Management, Weed management
Oilseed	
Soybean	Variety, Integrated Nutrient Management
Groundnut	Variety, INM,
Pulses	
Greengram, Blackgram, Pigeon pea, Bengal gram	Variety, Integrated Nutrient Management

Fiber crop	
Cotton	Integrated Nutrient Management
Millets	Promotion of Millets sowing
Plant Protection	
Maize	Integrated Pest Management, FAW management
Soybean, Sorghum, Ground Nut, Greengram, Blackgram, Pigeon pea, Bengalgram	Integrated Pest & Disease Management
Cotton	Integrated Pest & Disease Management, PBW management
Citrus, Onion	Pest & disease management.
Horticulture	
Custard Apple	Improved variety, Integrated crop management, Nutrient management
Banana, Citrus	Bahar Treatment, Nutrient Management, Pre/post-harvest management
Papaya	IPM, IDM
Turmeric	Improved variety, Nutrient management
Onion, Tomato, Garlic, Chilli	Improved variety, Integrated crop management, Nutrient Management
Agricultural Engineering	
Mechanization	Use of Improved implements for mechanization of dryland Agriculture
Soil & Water conservation	In-situ soil moisture conservation, water harvesting, soil conservation in undulating slopy area, water storage structures etc.
Micro Irrigation system	Use of improved irrigation methods like drip & Sprinkler irrigation system. Efficient use of Fertigation, rain pipes
Small scale processing	PKV Mini Dal Mill for pulses processing, PKV Deseeding machine for custard apple, onion seed extractor and ajwain seed extractor.
Veterinary Science	
Dairy	Feed & Fodder production, Animal health, oestrous synchronization, Use of mineral mixture
Goat	Up gradation of local goat, Health, To control high mortality in kid
Poultry	Rearing of new birds in backyard
Home Science	
Women & Child care	Nutrition status
Drudgery Reduction	Use of drudgery reducing farm implements/equipment's
Capacity Building	Strengthening up of SHG / farmers club

3. TECHNICAL PROGRAMME

3.1. A. Details of targeted mandatory activities by KVK

OFT		FLD (including CFLD)	
(1)		(2)	
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers
14	124	157.8 ha	530

Training		Extension Activities	
(3)		(4)	
Number of Courses	Number of Participants	Number of activities	Number of participants
85	2041	481	13041

Seed Production (qt.)	Planting material (Nos.)	Animal / Bird production (Nos.)	Soil Samples to be test
(5)	(6)	(7)	(8)
92	38000	200	1500

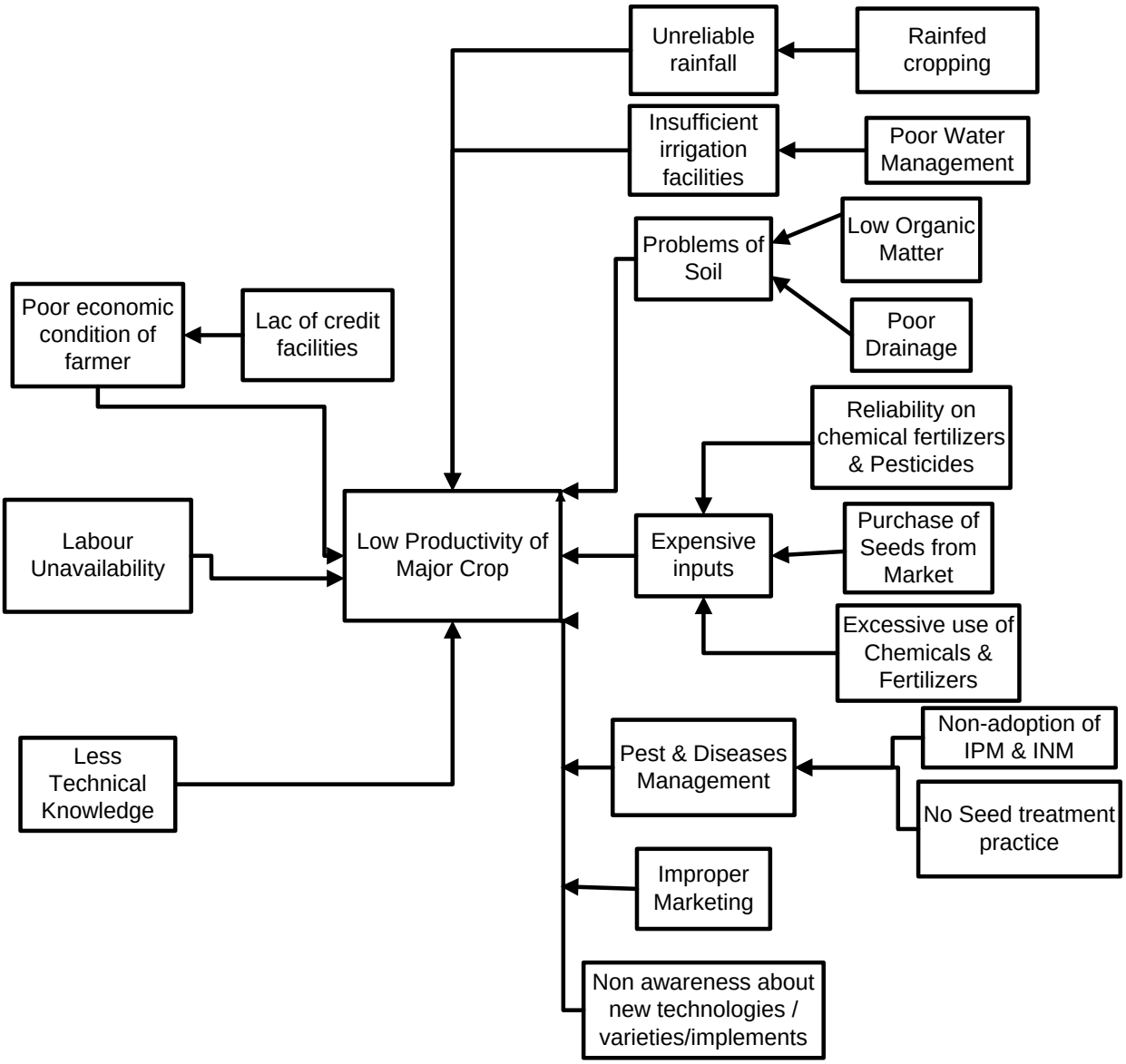
3.1. B. Operational areas details proposed during 2023

S.N.	Major crops & enterprises being practiced in cluster villages	Prioritized problems in these crops/ enterprise	Extent of area (ha/No.) affected by the problem in the district	Names of Cluster Villages identified for intervention	Proposed Intervention (OFT, FLD, Training, extension activity etc.)*
1	Cotton	Low yield due to 1.Heat Stress 2.Pink bollworm infestation 3.Nutrient Management 4. Pest & disease management	134164	Wadgaon Patan wasadi Hadiyamal	OFT, FLD, Training, Field visit
2	Soybean	Low yield due to 1.Varietal Monoculture 2.Excess Vegetative Growth 3.Infestation of stem fly and girdle beetle	74742	Wadgaon Patan wasadi Hadiyamal	FLD Training, Field visit

3	Pigeon pea	Low yield due to 1.variety 2.Nutrient Management 3. Helicoverpa infestation 4.Wilt Management	32567	Wadgaon Patan wasadi Hadiyamal	OFT, FLD, Training Field visit
4	Sorghum	Quality Aspects due to Heavy Rainfall During Maturity Season	6695	Wadgaon Patan wasadi Hadiyamal	FLD, Training, Field visit
5	Bengalgram	1. Improper sowing time. 2.Low plant population 3.Imbalanced nutrient management 4.Helicoverpa and wilt	45700	Wadgaon Patan wasadi Hadiyamal	OFT, CFLD, Training, Field visit
6	Summer Groundnut	1.Improper Crop Management 2.Varital Monoculture TAG-24 3. Imbalanced nutrient management 4. Pest & disease management 5. Low productivity	800	Wadgaon Patan wasadi Hadiyamal	CFLD, FLD, Training, Field visit
7	Maize	Incidence of Fall Army Worm in maize in Kharif, Rabi & Summer season High labour cost and drudgery in planting operation	17592	Wadgaon Patan Wasadi Hadiyamal	FLD, Training, Field visit
8	Onion	Low yield due to 1) Varietal monoculture 2) Nutrient management 3) Storage losses 4) Heavy infestation of Thrips 5) Unavailability of seed extractor machine	10000	Jalgaon, Motala, Dhamangaon Wadgaon Patan, Hadiyamal	OFT, FLD, Training, Field visit
9	Turmeric	Low yield due to 1) Varietal monoculture 2) Nutrient management 3) High cost of planting (manually)	17500	Umra, Patan, Pimpalgaon	OFT, FLD, Training, Field visit
10	Garlic	Low yield due to 1) Varietal monoculture 2) Nutrient management 3) High labour cost in planting	367	Sungaon, shegaon, Usra, Asalgaon	OFT, Training, Field visit

11	Citrus	Low yield due to 1)Nutrient management 2) Flowering treatment 3) Infestation of mites	6500	Hiwarkhed, Sungaon, Sonala, Bawanbir	OFT, FLD, Training, Field visit
12	Poultry deshi	Less eggs production Low weight gain Low growth rate	--	Hadiyamahal, Patan	OFT,FLD, Training
13	Cattle	Low production of fodder crop	--	Patan,Hadyamahal Wadgaon	FLD, Training
14	Heifer	Low conception rate, failure of oestrous,	--	Jalgaon, Jamod, Patan	OFT, Training
15	Goat	High mortality, low growth, Low weight gain	--	Wadgaon,Patan, Wasadi	OFT, Training.
16	Dairy	Low milk Production Non availability of green fodder during scarcity period, Wastage of fodder	--	Dhanora Jangam Wadali, wadati	FLD, Training
17	Subsoiler	Ill drains hard and compacted soil.	130	Borala, Bhastan Matergaon	FLD, Training
18	Post Hole Digger (Horti Plantation)	Labour scarcity, high cost of labour and time	3800	Sonala, Tunki	Method Demonstrations training
19	Processing / Value Addition (Pulses)	Unavailability of minimum processing facility, Unemployment in rural youth	--	Jalgaon and Sangrampur block	Vocational training
20	Animal drawn Sprayer	High cost of labour for spraying operation	--	Jalgaon, Nimbhora	Method demonstration
21	Animal drawn 3-tyne hoe	High labour cost in intercultural operation	--	Patan, Haditamahal	Method demonstration
22	Animal drawn CRIDA Planter	Low yield due to improper plant population	--	Patan, Haditamahal	Method demonstration
23	Micro Irrigation	Low economical life of micro irrigation unit	--	Patan, Haditamahal	Training cum Method demonstration
24	Boom sprayer	Labour and time consuming manual spraying method	--	Patan, Haditamahal	Training cum Method demonstration
25	Nutritional kitchen garden	Low nutritious diet	--	Dhanora, Rajura, Kherda ,	FLD, training Extension activity
26	Vegetable Transplanter	High cost of transplanting, Drudger, Time consuming	--	Jalgaon, Sungaon	FLD, Training

3.1. C. Problem cause diagram of major problems.



3.2. Technologies to be assessed

A.1. Abstract on the number of technologies to be assessed in respect of crops

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	Others	Total
Varietal Evaluation	--	01	--	--	01	--	--	--	01	--	**03**
Seed / Plant production	--	--	--	--	--	--	--	--	--	--	--
Weed Management		--	--	--	--	--	--	--	--	--	--
Integrated Crop Management	--	--	--	01	--	01	--	--	--	--	**02**
Integrated Nutrient Management	--	--	--	--	--	--	--	--	01	--	**01**
Integrated Farming System	--	--	--	--	--	--	--	--	--	--	--
Mushroom cultivation	--	--	--	--	--	--	--	--	--	--	--
Drudgery reduction	--	--	--	--	--	--	--	--	--		--
Farm machineries		--	--	--	01	--	--		01	**01**	**03**
Value addition	--	--	--	--	--	--	--	--	--	--	--
Integrated Pest Management	--	--	01		--	01	--	--	--	--	02
Integrated Disease Management	--	--	--	--	--	--	--	--	--	--	--
Resource conservation technology	--	--	--	--	--	--	--	--	--	--	--
Small Scale income generating enterprises	--	--	--	--	--	--	--	--	--	--	--
Human Health	--	--	--	--	--	--	--	--	--	--	--
TOTAL		**01**	**01**	**01**	**02**	**02**	**--**	**--**	**03**	**01**	**11**

A.2. Abstract on the number of technologies to be assessed in respect of livestock / enterprises

Thematic areas	**Cattle**	**Poultry**	**Sheep**	**Goat**	**Piggery**	**Wormi culture**	**Fisheries**	**TOTAL**
Evaluation of Breeds	--	01	--	--	--	--	--	**01**
Nutrition Management	--	--	--	01	--	--	--	**01**
Disease of Management	--	--	--	--	--	--	--	**--**
Value Addition	--	--	--	--	--	--	--	**--**
Production and Management	01	--	--	--	--	--	--	**01**
Feed and Fodder	--	--	--	--	--	--	--	**--**
Small Scale income generating enterprises	--	--	--	--	--	--	--	**--**
TOTAL	**01**	**01**	**--**	**01**	**--**	**--**	**--**	**03**

B. Details of On Farm Trial / Technology Assessment during 2023

SN	Crop/ enterprise & Season	Prioritized problem	Title of OFT	Technology options	Source of Technology	Name of critical input	Qty per trial	Cost per trial	No. of trials	Total cost for the OFT (Rs.)	Parameters to be studied	Team members
1	Bt Cotton	Low Yield, Small Boll Size	Assess the performance of Foliar spray of 25 PPM Gibrelic acid (13.9 gram GA in 500 lit.water per ha on Bt Cotton at the time of square formation and boll development stage	T1 - Farmer Practice T2 - Foliar Spray of 2% Urea T3 - foliar spray of GA @ 13.9 gram/ha at the time of square	PDKV (2019)	GA	4 gm	500	7	3500	Plant height, No of square, No of boll Boll size Yield	S.M.Umale A.T.Gabhane
2	Soybean Kharif	Low monetary return from Variety JS335 due to monoculture	Assess the performance of new released variety of soybean Cv.AMS 100-39(PDKV Amba) and Cv. AMS -MB5-18 (Suvarna Soya)	T1 – Farmers practice (sowing of JS-335) T2 - Sowing of Cv.AMS 100-39(PDKV Amba) T3 - Sowing of Cv. AMS -MB5-18 (Suvarna Soya)	PDKV (2021)	Seed of variety AMS100-39 Seed of variety AMS-MB5-18	30kg 30Kg	2100 2100	7	29400	Plant Height, cm No. of pods Yield, qt/ha B:C ratio	S.M.Umale A.T.Gabhane
3	Orange	Reduction in yield due to	Management of Mite in orange	T1- Farmers practice-2 to 3 sprays of insecticides							1)Per cent infestation 2)yield (kg/ha)	Mr. A.T. Gabhane & Mr. S.P.

		Mite		T2- For effective control of mites in citrus, two sprays of Ethion 50 EC @ 20 ml or Propargyl 57% EC @ 10 ml per 10 liter of water first at initiation of the pest infestation and second spray 15 to 20 days after first spray	ICAR-CCRI Nagpur	Ethion 50 EC Propargyl 57 EC	500 ml	1200	10	12000	3)B:C Ratio	Datey
				T3- Spraying of Abaection 1.9 % EC @ 3.7 ml per 10 lter of water	Dr. PDKV Akola - 2013	Abaection 1.9 % EC	500ml	550	10	5500		
4	Bengal gram	Reductio n in yield due to incidence of pod borer	Integrated management of chickpea pod borer(Helicoverpa armigera)	1 T1- Farmers practice- 2 to 3 sprays of insecticides					10		No of Larvae /MRL Percent pod damage Yield (qt/ha) Cost of PP (Rs/ha) C:B ratio	Mr. A.T. Gabhane & Mr. S.M. Umale
				T2 -Spraying of Ethion 50% EC @ 20 ml in 10 L of water at 50 per cent flowering of Chickpea followed by second spraying of Chlorantriniliprole (18.5 SC) 2.5 ml in 10 L of water after 15 days is recommended for effective management of pod borer and higher yield of Chickpea Dr. PDKV Akola, 2019	Dr. PDKV, Akola - 2019	1.Ethion 50% EC 2.Chlorant raniliprole (18.5 SC)	500 ml 60 ml	550 720	10	5500 7200 12700		
				T3- 1.Clean cultivation and deep summer ploughing Mixing of 100 gram Sorghum seed at the	Dr. VNMKV Parbhani Joint Agrosco	Pheromone Traps & lures HaNPV @ 500	02 500	100 500	10 10	1000 5000		

				time of sowing. Sowing of two rows of coriander and mustard around crop. Erection of bird perches in chickpea field @ 50 / ha after 30 days of crop sowing. Installation pheromone traps @ 5 /ha. Spraying NSE 5% at 50% flowering. Spraying of He ar NPV @ 500 LE/ at time of pod formation stage. Spraying of benzoate 5 SG @ 4 gram/10 liter of water at pod filling stage	2017	NSE 5% Emamectin benzoate 5 % SG	5 KG 100 gram	500 500	10 10	5000 5000 16000/-		
5	Turmeric	Nutrient management	To Asses Turmeric special nutrient and rdf dose	T1- Farmers practice					07	9600/-	Avg yield, No of finger/rhizomes, C:B ratio	Mr. Shashank Date Mr. Sanjay Umale
				T2- Application of turmeric special micronutrient	IISR, Kozhikode	Turmeric special micronutrien	02kg	4500				
				T3 - Spray of Boron, Fe & Zn two spray @ 25-day interval	TNAU, Coimbatore	Boron Fe,Zn	800 gm each	2300				
6	Onion	Varietal evaluation	To asses Bhima Shakti & Bhima Kiran variety for superior yield quality & better storage life in Buldana	T1 - Farmers practice					07	21000/-	Avg yield, no of days to harvest, C:B ratio	Mr. Shashank Date Mr. Vikas Jadhao
				T2 - Bhima Kiran variety of onion	DOGR, Rajgurunagar	Bhima Kiran onion variety	1kg	10500				
				T3 - Bhima Shakti variety of onion	DOGR, Rajgurunagar	Bhima Shakti onion variety	1kg	10500				

7	Citrus	Bahar treatment	To asses bahar treatment regulation for old & unfruitful plants (10 yrs & more) for fruitfulness	T1 - Farmers practice	--	--	--	--	07	18000/-	No of plant having fruit bearing, days to fruit bear, Aveg yield/plant, C:B ratio	Mr. Shashank Datey Mr. Anil Gabhane
				T2 – soil application of Paclobutrazole @ 9-12 g/plant in april month for mrug bahar	CCRI, Nagpur	Paclobutrazole @ 9-12 g/plant	2.5lit	16500				
				T3 – foliar spray twice of Clormaquat-chloride @4ml/lit twice 15 day interval.	Dr. PDKV, Akola	Clormaquat-chloride @4ml/lit	2.0 lit	1500				
8	Garlic	Varietal evaluation	To asses AKG-7 & G-41 variety for yield quality & better storage life in Buldana	T1 - Farmers practice	--	--	--	--	07	20000/-	Yield/ha, crop duration, Aveg Wt of Bulb B:C ratio	Mr. Shashank Datey Mr. Vikas Jadhao
				T2 - AKG-7	Dr. PDKV, Akola	AKG-7 variett	50kg	10000/-				
				T3 - G-41	DORG, Rajgurunagar	G-41 variety	50kg	10000/-				
9	Poultry	1.Low eggs production 2. Low weight gain.	Assess the performance of new variety Kaveri breed under back yard Poultry	T_1 – Deshi birds T2- Kaveri birds T_3 – CARI-Nirbhik birds 1 month age	Central Poultry development organisation Odisha CARI,Izatnagar	Kaveri birds 1 month age	10	2000	11	22000	Avg. body weight gain Avg Eggs prod	V.S. Janotkar
10	Cow Heifer	Failure of oestrous. Infertility. Low conception rate	Induction of oestrous in anoestrous Heifer	T1 – Locally available feed & fodder T2 - T1 + Mineral mixture 50 gms daily +3 gm deworming bolus once T3- T1 + Vitamin A D_3 + Deworming + Mineral mixture Inj. GnRh Inj PGF2 α and timely AI	MAFSU Nagpur	Inj.Vit.AD3 Mineral mixture 50 gms Dewormer bolus 3 gm Ovisynch protocol Inj, GnRh 2.5ml PgF2alpfa, Inj,GnRh 2.5 ml,	10	1000	10	10000	1. Oestrous Induction response in treated 2. Time required for oestrous after treatment 3. Conception rate	V.S. Janotkar

11	Goat	High mortality Low growth and weight gain	Enhancing beneficial bacteria through feeding of probiotics supplementation	T1- local practice (feeding whole milk) T2- T1 + 2 gms probiotics supplement for 90 days	MAFSU ,Nagpur	Probiotics supplement	20	600/-	10	6000/-	Av. Weight gain Mortality rate	V.S.Janotkar
12	Ajwain	High and labour intensive method of threshing manually	Use of PDKV Ajwain seed extractor	T1-threshing at low T2- Use of PDKV Ajwain seed extractor	Dr. PDKV Akola 2019	Tranport charges	0.4 ha per trial	0.00	13	5000.00	Seed loss % Cost of operation Rs/qt Seed germination %	N.P, Talokar V.G. Jadhao
13	Onion	Drudgery in opration	Use of PDKV onion seed extractor	T1- Manual method of harvesting T2- Use of PDKV onion seed extractor	Dr. PDKV Akola 2019	Tranport charges	0.4 ha per trial	0.00	13	5000.00	Seed loss % Cost of operation Rs/qt Seed germination %	N.P, Talokar V.G. Jadhao
14	Garlic	High labour cost and time in planting operation	Use of PDKV Garlic planter	T1 - Local practice (planting manually) T2 – Use of Garlic Planter	Dr. PDKV Akola 2019	Hiring charges of tractor and Garlic Planter	0.4 ha per trial	1000/-	15	15000	Yield, qt/ha Net return, Rs/ha	N.P, Talokar V.G. Jadhao

3.3. Frontline Demonstrations

A. Details of FLDs to be organized -

Sl. No.	Crop	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers/ demon.	Parameters identified
1	Wheat	PDKV-Sardar	Weed Management	Post emergence application of clodinafop propargyl+ Metsulfuran Methyl @ (0.06+0.004 Kg ai/ha) At 35DAS for controlling the weed flora in wheat	Clodinafop Propargyl + Metsulfuron Methyl Rs-15000/-	Rabi 2023	6	15	1. Monocot Weed Count /sqmt, 2.Dicot Weed Count /sqmt 3.Yield qt/ha, 4. WI(%)
2	Finger Millet	F11	Crop Diversification	Promotion of Millets	Seed Rs-4000/-	Kharif-2023	2	20	1)yield (kg/ha) 2)B:C Ratio
3	Soybean	JS-335	IPM	Management of stem fly in soybean	T1 (Farmers Practice)-1 or 2 chemical pesticide sprays comprising of Profenophos 50 EC 20 ml, Emamectin benzoate 5 SG @ 5 g per 10 lit water T2-(Recommended Technology) IISR Indore Extension Bulletin No. 16(202) PP Seed treatment with Thiamethoxam 30 FS @ 10 ml/kg seed followed by ETL	Kharif-2023	10 ha	25	1)Per cent stem fly infestation 2)yield (kg/ha) 3)B:C Ratio

					based spray of Thiamethoxam 12.60% + Lambda Cyhalothrin 9.50 % ZC @ 50ml per Acre Total cost Rs 73722/-				
4	Cotton	Cot -35 Rassi	IPM	Management of Pink bollworm (*Pectinophora gossypiella*) in Bt cottonT3-	T1 (Farmers Practice) - 1 or 2 chemical pesticide sprays comprising of Chloropyriphos 20 EC 30ml, Triazophos 40 EC 30 ml per 10 lit water T2 - 1st Spray profenophos 50 EC @ 20 ml per 10 lit water at 60 DAS 2nd Spray Emamectin benzoate 5 SG @ 4.4 g per 10 lit water at 80 DAS and 3rd spray Lambda cyhalothrin 5 EC @ 10 ml per 10 lit water at 100 DAS (MPKV, Rahuri Joint Agrosco 2018) Rs-75500/-	Kharif-2023	10	25	Percent green boll damage, Percent loculi damage at harvest, Yield (qt/ha), C:B ratio
5	Pigeon pea		IPM	Management of pigeon pea pod borer complex	T1 (Farmers Practice) - 1 or 2 chemical pesticide sprays comprising of Chloropyriphos 20 EC 30ml, Triazophos 40 EC 30 ml per 10 lit	Kharif-2023	10 ha	25	Percent pod damage, Yield (qt/ha), Cost of PP (Rs/ha), C:B ratio

					water T2- 1st spray - Chlorantriniliprole 18.5 SC @3 ml per 10 lit water at 50 per cent flowering 2nd spray- Flubendiamide 39.35 SC @2 ml per 10 lit water at pod filling stage. Rs 75000/-				
6	Pigeon pea	CHARU, ICPL-87119	IDM	Management of wilt in pigeon pea Treat the seed of pigeon pea with combined product of fungicide Carboxin 37.5% + Thiaram 37.5 % @ 3 g/kg followed by Trichoderma Viride @ 10 g/ kg seed to reduce the wilt incidence and more monetary return	T1 (Farmers Practice)- No seed treatment T2-(Recommended Technology)- Treat the seed of pigeon pea with combined product of fungicide Carboxin 37.5% + Thiaram 37.5 % @ 3 g/kg followed by Trichoderma Viride @ 10 g/ kg seed to reduce the wilt incidence and more monetary return Total cost Rs.11500/-	Kharif-2023	10.0	25	Disease Intensity (%), Yield (kg/ha), B:C Ratio
7	Onion	local	IPM	Management of Thrips in onion	T1-- (Farmers Practice)- 1 or 2 chemical pesticide sprays comprising of Profenophos 50 EC 20 ml, Emamectin benzoate 5 SG @ 5 g per 10 lit water	Rabi/ Sumer 2023-24	10	25	No of Thrips / plants. Yield (kg/ha), B:C Ratio

					T2-- ETL(15 Thrips/plants) based spraying Dimethoate 30 EC @ 13 ml followed by Metarhizium anisopliae 1.15 WG @50 gram followed by Neem seed extract 5% at 15 days interval and use of sticker @ 10 ml per 10 liter of water . (Joint Agrosco, MPKV, Rahuri 2020) Total- 43750/-				
8	Turmeric	IISR Pragati	Varietal evaluation	IISR Pragati variety for demonstration	Turmeric Bulb 24500/-	Kharif-2023	5.6	14	Yield/ha, crop duration, Finger/bunch, wt. of bunch, B:C ratio
9	Citrus	Nagpur Mandarin	Nutrient management	Application of capsulated biofertilizer to soil @2 capsule /acre	IISR developed Microbial consortium	Mrug bahar 2023	5.6	14	Avg yield, Days to harvest, Avg 'A' grade fruit/plant%, B:C ratio

Sponsored Demonstration (CFLDs on O & P/Others)

Sr. No	Crop	Variety	Season & Year	Area (ha)	No. of farmers
1	Pigeonpea	BDN716	Kharif 2023	10	25
2	Chickpea	PDKV Kanak	Rabi 2023	20	50
3	Summer Ground Nut	TAG-24	Summer 2023	20	50
4	Summer Greengram	Shikha	Summer 2023	10	25
5	Soybean	KDS-726	Kharif 2023	10	25

B. Extension and Training activities under FLDs

S. No.	Activity	No. of activities	Months	Number of participants
1	Field days	08	Jan., March Sept. Dec	400
2	Farmers Training	20	May. June, Sept, Oct, Nov, Dec.	480
3	Media coverage	20	June, Oct, Nov	
4	Training for extension functionaries	06	June, Sept, Nov, Dec.	200
5	Field visit	45	June, Sept, Nov, Dec.	300

C. Details of FLD on Enterprises

a. Farm Implements

Name of Technology	Crop	Season and year	No. of farmers	Area (ha)	Critical inputs	Performance parameters / indicators
Turmeric Planter	Turmeric	June 23	13	2.6	Cost of operation – 25000/-	Yield(q/ha) Cost of operation Rs/ha Net return Rs/ha
BBF Planter	Ground nut	Jan 23	25	10	Cost of operation – 25000/-	Yield and net return
Subsoiler	Cotton	Mar 23-June 23	25	10	Cost of operation – 15000/-	Yield, Stage-wise m.c.%
BBF Planter	Maize	June 23	25	10	Cost of operation – 25000/-	Yield and net return

b. Livestock and Fisheries Enterprises

Enterprise	Breed	No. of farmers	No. of animals, poultry birds etc.	Critical inputs	Performance parameters / indicators
Poultry	Kaveri birds	10	100	1 months age Kaveri poultry birds	Av. Weight gain, Av. Eggs production
Cow/buffalo	Local	10	20	Supply of Silage bag	Av. Milk yield Health status Acceptability of feed for consumption
Cattle	Local	12	20	Supply of sets roots	Avg. yield of green fodder

c. Other Enterprises (Mushroom, Apiculture, Sericulture, Vermicompost, Value Addition, Women empowerment, etc)

Enterprise	Technology demonstrated	No. of farmers	No. of units	Critical inputs	Performance parameters / indicators
Women & Child care	Nutritional garden	50	--	Vegetable seeds, fruit plant, medicinal plant Rs. 1000/-	Vegetable cost of saving /month Yield Consumption ratio fruit and Vegetable
Drudgery reduction	Vegetable Transplanter	10	--	Vegetable Transplanter Rs.15000/-	Field coverage, ha/hr Time & cost of operation

3.4. Training (Including the sponsored and FLD training programmes)

A. ON Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		M	F	T	M	F	T	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0
Crop Diversification	0	0	0	0	0	0	0	0
Integrated Farming	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	5	80	15	95	20	5	25	120
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Natural farming	3	90	5	95	20	5	25	120
II. Horticulture								
a) Vegetable Crops	0	0	0	0	0	0	0	0
Production of low volume and high value crops	01	15	02	17	04	00	04	21
Off-season vegetables	01	15	02	17	04	00	04	21
Nursery raising	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	01	15	02	17	04	00	04	21
b) Fruits								
Training and Pruning	01	15	02	17	04	00	04	21
Layout and Management of Orchards	0	0	0	0	0	0	0	0
Cultivation of Fruit	01	15	02	17	04	00	04	21
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	0	0	0	0	0	0	0	0
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0
c) Ornamental Plants								
Nursery Management	01	15	02	17	04	00	04	21
Management of potted plants	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0

d) Plantation crops								
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops								
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices								
Production and Management technology	01	15	02	17	04	00	04	21
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants								
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0
III. Soil Health and Fertility Management								
Soil fertility management	0	0	0	0	0	0	0	0
Soil and Water Conservation	02	30	0	30	10	0	10	40
Integrated Nutrient Management	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0
IV. Livestock Production and Management								
Dairy Management	01	12	02	14	04	0	04	18
Poultry Management	01	10	02	12	02	01	03	15
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management/goat	0	0	0	0	0	0	0	0
Disease Management	01	12	01	13	1	01	02	15
Feed management	03	25	05	30	05	05	10	40
Production of quality animal products	0	0	0	0	0	0	0	0
V. Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	0	0	0	0	0	0	0	0
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0
Value addition	01	0	22	22	0	3	3	25
Income generation activities for empowerment of rural Women	01	0	22	22	0	3	3	25
Location specific drudgery reduction technologies	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0

VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems	01	20	0	20	5	0	5	25
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Small scale processing and value addition	01	15	0	15	05	0	05	20
Post-Harvest Technology	01	15	0	15	5	0	5	20
VII. Plant Protection								
Integrated Pest Management	03	54	0	54	06	0	06	60
Integrated Disease Management	01	18	0	18	02	0	02	20
Bio-control of pests and diseases	01	18	0	18	02	0	02	20
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0
VIII. Fisheries								
Integrated fish farming	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Hatchery management and culture	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0
IX. Production of Inputs at site								
Seed Production	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	01	20	0	20	05	0	05	25
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	01	20	0	20	05	0	05	25
Organic manures production	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics								
Leadership development	0	0	0	0	0	0	0	0
Group dynamics	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	01	23	00	23	02	00	02	25

WTO and IPR issues	0	0	0	0	0	0	0	0
XI. Agro-forestry								
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
XII. Others (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	**22**	**307**	**56**	**363**	**63**	**13**	**76**	**439**
(B) RURAL YOUTH								
Mushroom Production	01	00	23	23	00	02	02	25
Bee-keeping	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	02	33	05	38	05	02	07	45
Integrated Farming (Medicinal)	0	0	0	0	0	0	0	0
Planting material production	01	15	02	17	04	00	04	21
Vermi-culture (vermi compost production)	01	18	0	18	02	0	02	20
Sericulture	01	23	00	23	02	00	02	25
Protected cultivation of vegetable crops	01	15	02	17	04	00	04	21
Commercial fruit production	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	01	15	02	17	04	00	04	21
Value addition	01	0	22	22	0	3	3	25
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	0	0	0	0	0	0	0	0
Sheep and goat rearing	01	12	0	12	03	0	03	15
Quail farming	0	0	0	0	0	0	0	0
Piggery	0	0	0	0	0	0	0	0
Rabbit farming	0	0	0	0	0	0	0	0
Poultry production	01	12	01	13	02	02	0	15
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	01	23	00	23	02	00	02	25
Composite fish culture	0	0	0	0	0	0	0	0
Freshwater prawn culture	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Small scale processing	01	15	0	15	5	0	5	20
Post-Harvest Technology	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
TOTAL	**13**	**181**	**57**	**238**	**33**	**9**	**38**	**278**
(C) Extension Personnel								
Productivity enhancement in field crops	1	15	5	20	3	2	5	25

Integrated Pest Management	02	200	40	240	40	20	60	300
Integrated Nutrient management	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	01	15	02	17	04	00	04	21
Protected cultivation technology	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	01	23	00	23	02	00	02	25
Care and maintenance of farm machinery and implements	01	30	0	30	10	0	10	40
WTO and IPR issues	01	23	00	23	02	00	02	25
Management in farm animals	01	12	0	12	03	0	03	18
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	1	15	5	20	3	2	5	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Weed management	0	0	0	0	0	0	0	0
Seed Production Technique	0	0	0	0	0	0	0	0
TOTAL	**9**	**333**	**52**	**385**	**67**	**24**	**91**	**479**
G. Total	**44**	**821**	**165**	**986**	**163**	**46**	**205**	**1196**

B. OFF Campus

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand
		M	F	T	M	F	T	Total
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0
Crop Diversification	1	15	5	20	3	2	5	25
Integrated Farming	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	0	0	0	0	0	0	0	0
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
II. Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	01	15	02	17	04	00	04	21
Off-season vegetables	0	0	0	0	0	0	0	0
Nursery raising	0	0	0	0	0	0	0	0
Exotic vegetables like Broccoli	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	01	15	02	17	04	00	04	21
b) Fruits								
Training and Pruning	0	0	0	0	0	0	0	0
Layout and Management of Orchards	01	15	02	17	04	00	04	21
Cultivation of Fruit	01	15	02	17	04	00	04	21
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	01	15	02	17	04	00	04	21
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0
c) Ornamental Plants								
Nursery Management	0	0	0	0	0	0	0	0
Management of potted plants	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0

Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0
d) Plantation crops								
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops								
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices								
Production and Management technology	01	15	02	17	04	00	04	21
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants								
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0
III. Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation	03	35	0	35	25	0	25	60
Integrated Nutrient Management	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0
IV. Livestock Production and Management								
Dairy Management	01	12	03	15	03	02	05	20
Poultry Management	01	12	05	17	03	0	03	20
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management /goat	0	0	0	0	0	0	0	0
Disease Management	01	12	0	12	03	0	03	15
Feed management	01	10	05	15	03	02	05	20
Production of quality animal products	0	0	0	0	0	0	0	0
V. Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	01	00	23	23	00	02	02	25
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0

Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	0	0	0	0	0	0	0	0
Value addition	01	00	23	23	00	02	02	25
Income generation activities for empowerment of rural Women	01	00	23	23	00	02	02	25
Location specific drudgery reduction technologies	01	00	23	23	00	02	02	25
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0
VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems	01	15	0	15	5	0	5	20
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	04	65	0	60	15	0	15	80
Small scale processing and value addition	0	0	0	0	0	0	0	0
Post-Harvest Technology	01	15	0	15	5	0	5	20
VII. Plant Protection								
Integrated Pest Management	04	72	0	72	08	0	08	80
Integrated Disease Management	02	36	0	36	04	0	04	40
Bio-control of pests and diseases	02	36	0	36	04	0	04	40
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0
VIII. Fisheries								
Integrated fish farming	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0

Fish processing and value addition	0	0	0	0	0	0	0	0
IX. Production of Inputs at site								
Seed Production	0	0	0	0	0	0	0	0
Planting material production (Horti.)	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	0	0	0	0	0	0	0	0
Organic manures production (A.S.)	0	0	0	0	0	0	0	0
Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics								
Leadership development	0	0	0	0	0	0	0	0
Group dynamics	01	23	00	23	02	00	02	25
Formation and Management of SHGs (HS)	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	01	23	00	23	02	00	02	25
WTO and IPR issues	0	0	0	0	0	0	0	0
XI. Agro-forestry								
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems (Agro)	0	0	0	0	0	0	0	0
XII Others (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	**34**	**471**	**122**	**588**	**109**	**14**	**123**	**716**

C. Consolidated table (ON and OFF Campus)

Thematic Area	No. of Courses	No. of Participants						
		Others			SC/ST			Grand Total
		M	F	T	M	F	T	
(A) Farmers & Farm Women								
I. Crop Production								
Weed Management	0	0	0	0	0	0	0	0
Resource Conservation Technologies	0	0	0	0	0	0	0	0
Cropping Systems	0	0	0	0	0	0	0	0
Crop Diversification	1	15	5	20	3	2	5	25
Integrated Farming	0	0	0	0	0	0	0	0
Water management	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Crop Management	5	80	15	95	20	5	25	125
Fodder production	0	0	0	0	0	0	0	0
Production of organic inputs	0	0	0	0	0	0	0	0
Natural Farming	3	90	5	95	20	5	25	120
II. Horticulture								
a) Vegetable Crops								
Production of low volume and high value crops	02	30	04	34	08	00	08	42
Off-season vegetables	01	15	02	17	04	00	04	21
Nursery raising	0	0	0	0	0	0	0	0
Exotic vegetables	0	0	0	0	0	0	0	0
Export potential vegetables	0	0	0	0	0	0	0	0
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	02	30	04	34	08	00	08	42
b) Fruits								
Training and Pruning	01	15	02	17	04	00	04	21
Layout and Management of Orchards	01	15	02	17	04	00	04	21
Cultivation of Fruit	02	30	04	34	08	00	08	42
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	01	15	02	17	04	00	04	21
Export potential fruits	0	0	0	0	0	0	0	0
Micro irrigation systems of orchards	0	0	0	0	0	0	0	0
Plant propagation techniques	0	0	0	0	0	0	0	0
c) Ornamental Plants								
Nursery Management	01	15	02	17	04	00	04	21
Management of potted plants	0	0	0	0	0	0	0	0
Export potential of ornamental plants	0	0	0	0	0	0	0	0
Propagation techniques of Ornamental Plants	0	0	0	0	0	0	0	0

d) Plantation crops								
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops	0	0	0	0	0	0	0	0
Production and Management technology	0	0	0	0	0	0	0	0
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices								
Production and Management technology	02	30	04	34	08	00	08	42
Processing and value addition	0	0	0	0	0	0	0	0
g) Medicinal and Aromatic Plants								
Nursery management	0	0	0	0	0	0	0	0
Production and management technology	0	0	0	0	0	0	0	0
Post-harvest technology and value addition	0	0	0	0	0	0	0	0
III. Soil Health and Fertility Management								
Soil fertility management								
Soil and Water Conservation	05	85	0	85	15	0	15	100
Integrated Nutrient Management	0	0	0	0	0	0	0	0
Production and use of organic inputs	0	0	0	0	0	0	0	0
Management of Problematic soils	0	0	0	0	0	0	0	0
Micro nutrient deficiency in crops	0	0	0	0	0	0	0	0
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0
IV. Livestock Production and Management								
Dairy Management	02	24	05	29	07	02	09	38
Poultry Management	02	22	07	29	05	01	06	35
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management/goat	0	0	0	0	0	0	0	0
Disease Management	02	24	01	25	04	01	05	30
Feed management	04	35	10	45	08	07	15	60
Production of quality animal products								
V. Home Science/Women empowerment								
Household food security by kitchen gardening and nutrition gardening	01	00	23	23	00	02	02	25
Design and development of low/minimum cost diet	0	0	0	0	0	0	0	0
Designing and development for high nutrient efficiency diet	0	0	0	0	0	0	0	0
Minimization of nutrient loss in processing	0	0	0	0	0	0	0	0
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques								
Value addition	02	0	45	45	0	05	05	50

Income generation activities for empowerment of rural Women	02	0	45	45	0	05	05	50
Location specific drudgery reduction technologies	01	00	23	23	00	02	02	25
Rural Crafts	0	0	0	0	0	0	0	0
Women and child care	0	0	0	0	0	0	0	0
VI. Agril. Engineering								
Installation and maintenance of micro irrigation systems	02	30	0	30	10	0	10	40
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and implements	0	0	0	0	0	0	0	0
Repair and maintenance of farm machinery and implements	04	65	0	65	15	0	15	80
Small scale processing and value addition	01	15	0	15	05	0	05	20
Post-Harvest Technology	02	30	0	30	10	0	10	40
VII. Plant Protection								
Integrated Pest Management	07	126	0	126	14	0	14	140
Integrated Disease Management	03	54	0	54	06	0	06	60
Bio-control of pests and diseases	03	54	0	54	06	0	06	60
Production of bio control agents and bio pesticides	0	0	0	0	0	0	0	0
	13	234	0	234	26	0	26	260
VIII. Fisheries								
Integrated fish farming	0	0	0	0	0	0	0	0
Carp breeding and hatchery management	0	0	0	0	0	0	0	0
Carp fry and fingerling rearing	0	0	0	0	0	0	0	0
Composite fish culture	0	0	0	0	0	0	0	0
Hatchery management and culture of freshwater prawn	0	0	0	0	0	0	0	0
Breeding and culture of ornamental fishes	0	0	0	0	0	0	0	0
Portable plastic carp hatchery	0	0	0	0	0	0	0	0
Pen culture of fish and prawn	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Edible oyster farming	0	0	0	0	0	0	0	0
Pearl culture	0	0	0	0	0	0	0	0
Fish processing and value addition	0	0	0	0	0	0	0	0
IX. Production of Inputs at site								
Seed Production	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Bio-agents production	0	0	0	0	0	0	0	0
Bio-pesticides production	01	20	0	20	05	0	05	25
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	01	20	0	20	05	0	05	25
Production of organic input	0	0	0	0	0	0	0	0

Production of fry and fingerlings	0	0	0	0	0	0	0	0
Production of Bee-colonies and wax sheets	0	0	0	0	0	0	0	0
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and fodder	0	0	0	0	0	0	0	0
Production of Fish feed	0	0	0	0	0	0	0	0
X. Capacity Building and Group Dynamics								
Leadership development								
Group dynamics	01	23	00	23	02	00	02	25
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of farmers/youths	01	46	00	46	04	00	04	50
WTO and IPR issues	0	0	0	0	0	0	0	0
XI. Agro-forestry								
Production technologies	0	0	0	0	0	0	0	0
Nursery management	0	0	0	0	0	0	0	0
Integrated Farming Systems	0	0	0	0	0	0	0	0
Sponsored training	0	0	0	0	0	0	0	0
TOTAL	**56**	**778**	**178**	**951**	**172**	**27**	**199**	**1155**
(B) RURAL YOUTH								
Mushroom Production	01	00	23	23	00	02	02	25
Bee-keeping	0	0	0	0	0	0	0	0
Integrated farming	0	0	0	0	0	0	0	0
Seed production	0	0	0	0	0	0	0	0
Production of organic inputs	02	33	05	38	05	02	07	45
Integrated Farming	0	0	0	0	0	0	0	0
Planting material production	01	15	02	17	04	00	04	21
Vermi-culture (vermi compost production)	01	18	0	18	02	0	02	20
Sericulture	01	23	00	23	02	00	02	25
Protected cultivation of vegetable crops	01	15	02	17	04	00	04	21
Commercial fruit production								
Repair and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	01	15	02	17	04	00	04	21
Value addition	01	0	22	22	0	3	3	25
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying								
Sheep and goat rearing	01	12	0	12	03	0	03	15
Poultry production	01	12	01	13	02	02	0	15
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	01	23	00	23	02	00	02	25
Composite fish culture	0	0	0	0	0	0	0	0

Freshwater prawn culture	0	0	0	0	0	0	0	0
Shrimp farming	0	0	0	0	0	0	0	0
Cold water fisheries	0	0	0	0	0	0	0	0
Fish harvest and processing technology	0	0	0	0	0	0	0	0
Fry and fingerling rearing	0	0	0	0	0	0	0	0
Small scale processing	01	15	0	15	5	0	5	20
Post-Harvest Technology	0	0	0	0	0	0	0	0
Tailoring and Stitching	0	0	0	0	0	0	0	0
Rural Crafts	0	0	0	0	0	0	0	0
TOTAL	**13**	**181**	**57**	**238**	**33**	**9**	**38**	**278**
(C) Extension Personnel								
Productivity enhancement in field crops	01	15	5	20	3	2	5	25
Integrated Pest Management	02	200	40	240	40	20	60	300
Integrated Nutrient management	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	01	15	02	17	04	00	04	21
Protected cultivation technology	0	0	0	0	0	0	0	0
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	0	0	0	0	0	0	0	0
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	01	23	00	23	02	00	02	25
Care and maintenance of farm machinery and implements	01	30	0	30	10	0	10	40
WTO and IPR issues	01	23	00	23	02	00	02	25
Management in farm animals	01	12	0	12	03	0	03	18
Livestock feed and fodder production	0	0	0	0	0	0	0	0
Household food security	0	0	0	0	0	0	0	0
Women and Child care	0	0	0	0	0	0	0	0
Low cost and nutrient efficient diet designing	0	0	0	0	0	0	0	0
Production and use of organic inputs	01	15	5	20	3	2	5	25
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Weed management	0	0	0	0	0	0	0	0
Seed Production Technique	0	0	0	0	0	0	0	0
Total	**9**	**333**	**52**	**385**	**67**	**24**	**91**	**479**
G. TOTAL	**78**	**1292**	**287**	**1574**	**272**	**60**	**328**	**1912**

Details of training programmes attached in **Annexure -I**

3.5 Extension Activities (including activities of FLD programmes)

Nature of Extension Activity	No. of activities	Farmers			Extension Officials			Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	12	450	75	525	10	05	15	460	80	540
Kisan Mela	02	155	20	175	20	05	25	175	25	200
Kisan Goshti	05	150	10	160	05	05	10	155	15	170
Exhibition	01	8900	2100	11000	40	10	50	8940	2110	11050
Film Show	02	20	05	25	05	0	05	25	05	30
Farmers Seminars	01	70	15	85	10	05	15	80	20	100
Workshop	03	200	50	250	05	05	10	205	55	260
Group meetings	10	190	45	235	10	05	15	200	50	250
Lectures delivered as resource persons	40	1400	200	1600	80	30	110	1480	230	1710
Newspaper coverage	55	0	0	0	0	0	0	0	0	0
Radio talks	07	0	0	0	0	0	0	0	0	0
TV talks	10	0	0	0	0	0	0	0	0	0
Popular articles	20	0	0	0	0	0	0	0	0	0
Extension Literature	12	0	0	0	0	0	0	0	0	0
Advisory Services	42	0	0	0	0	0	0	0	0	0
Scientific visit to farmers field	55	420	35	455	35	15	50	455	50	505
Farmers visit to KVK	140	4700	1050	5750	175	75	250	4875	1125	6000
Diagnostic visits	32	140	10	150	20	05	25	160	15	175
Exposure visits	04	50	10	60	05	0	05	55	10	65
Ex-trainees Sammelan	02	60	20	80	05	0	05	65	20	85
Soil health Camp	02	80	25	105	4	1	5	84	26	110

Animal Health Camp	08	160	10	170	05	0	05	165	10	175
Agri mobile clinic	0	0	0	0	0	0	0	0	0	0
Soil test campaigns	1	80	20	100	5	0	5	85	20	105
Farm Science Club Conveners meet	0	0	0	0	0	0	0	0	0	0
Self Help Group Conveners meetings	2	0	45	45	0	5	5	0	50	50
Mahila Mandals Conveners meetings	2	0	30	30	0	0	0	0	30	30
Celebration of special days (specify) World soil health day	1	130	30	160	5	2	7	135	32	167
World Women Day World Food Day Kisan Diwas Kisan Mahila Diwas	4	70	90	160	10	05	15	80	95	175
World veterinary day	1	52	10	62	04	01	05	56	11	67
Krishi Mohotsav (Sitafal)	1	210	25	235	10	05	15	220	30	250
Pre Kharif Kisan Mela	1	210	25	235	10	05	15	220	30	250
Pre Rabi Kisan Mela	1	210	25	235	10	05	15	220	30	250
Swachhata Pakhwada	1	300	75	375	5	2	7	305	77	382
Sanvidhan Din	1	35	5	40	0	0	0	35	5	40
Total	**481**	**10202**	**2150**	**12352**	**493**	**196**	**689**	**10695**	**2346**	**13041**

3.6. Target for Production and supply of Technological products

Seed Material

Sl. No.	Crop	Variety	Quantity (qt)
Oilseeds	Soybean	Phule Sangam, Phule Kimya, AMS-1001	75
Pulses	Pigeon pea	BDN-716, Vipula	22
	Chickpea	Fule Vikram, RVG-202	20
	Greengram	BM 2003-2	3.5
	Blackgram	TAU-1, AKU 10-1	3.5
Spices	Turmeric	IISR- Pragati	10
		PDKV Waigaon	10
	Garlic	AKG-7	05
		G-41	05
Others	Azolla culture	--	1.50
	Grass roots slips	CO-4, CO-5	3000 sets

Planting Materials

Sl. No.	Crop	Variety	Quantity (Nos.)
Fruits	Custard-apple	Balanagar	15000
		Phule - Janki	1000
	Kagzi-lime	Pramalini	5000
	Mandarin	Nagpur santra	2000
Vegetables	Chilli, Brinjal, Tomato	Teja-4, Mahyco-11, Arka Rakshak	15000

Bio-products

Sl. No.	Product Name	Species	Quantity	
			kg	Lit
Vermicompost	Compost	Eisenia fetida	4000	--
Azolla	Azolla culture	Pinnata	150	--

Livestock

Sl. No.	Type	Breed	Quantity (nos)
Poultry	Broiler	Vencob	800
	Layer	CARI-Nirbhik Kaveri	200

Value Added Products

Crop / Commodity	Name of the product	Quantity to be prepared (kg or litre)	Sale value (Rs)
Fruit crops – Aonla	Aonla fruit candy	5 kg	1000
	Aonla Juice	10 lit	600
	Aonla RTS	10 lit	1200
Custard-apple	Pulp	10 kg	2000
	Rabdi	05 kg	1000
	Shake	10 lit	2000
Oilseeds and pulses	Dal	350 kg	35000
Redgram	Dal	250 kg	22000
	Total	**795**	**64800**

3.7. Action plan for management of KVK instructional farm

Total land with KVK: 20.59 ha Cultivable land: 18.79 ha
(Irrigated: 15.0 ha, Rainfed: 3.79 ha) Micro-irrigation facility available at KVK: Yes

S. No.	Name of crop	Area (ha)	Variety	Date of sowing / Planting	Date of harvest	Expected yield (q)
1	**Crops**					
	Cotton	2.50	RCH-659, Ajeet 155	June 23	Nov.23	55
	Maize	2.00	Dhanya 8255 Dhanya 879	June 23	Nov. 23	125
	Sorghum	0.40	CSH-14, CSH-17	June 23	Sept.23	12
	Wheat	1.00	Arya, Ajeet	Nov.23	Mar.24	35
2	**Fruit crops**					
	Custard-apple	0.40	Phule Janki	Jun-2019	Dec. 23	1
		0.63	Balanagar	Jun-2019	Oct.23	10
		0.40	Arka Sahan, Atomia, Finger Print, NMK-2	Jun-2006	Oct.23	15
	Mandarin	0.43	Nagpur Santra	Jun-2006	Feb- 23	145
	Sweet orange	0.31	Nucellar Katol Gold	Jun-2006 / Jun 2020	Sept- 23	200
	Guava	0.50	L-49	Jun-2006 / Jun 2020	Nov-23	150

3	**Vegetable crops**	**--**				
4	**Seed production**					
	Soybean	3.00	Phule Sangam, Phule Kimya, AMS-1001	June 23	Oct.23	50
	Redgram	2.00	BDN-716, Vipula	June 23	Dec. 23	15
	Greengram	0.40	BM 2003-2	June 23	Sept.23	3.5
	Blackgram	0.40	TAU-1, AKU 10-1	June 23	Sept.23	3.5
	Bengalgram	1.00	Fule Vikram, RVG-202	Oct.21	Feb.22	20
5	**Fodder crops**					
	Fodder crop	0.40	CO4, CO5	Jul 23	Oct 23	4.0
6	**Technology cafeteria**					
	Natural Farming Millets	0.40	Foxtail Millet, Finger Millet, Little Millet, Barnyard Millet, Pearl Millet	June 23	Oct 23	
	Soybean		Phule Kimya AMS-1001, MAUS-71, JS-335, JS-9305, MACS-1188, NRC-127	June 23	Oct 23	
	Greengram		BM 2003-2, AKM-9911, AKM-8828	June 23	Sept 23	
	Blackgram		TAU-1, AKU 10-1, AKU-15	June 23	Sept 23	
	Bengalgram		Phule Vikram, Vikrant, RVG-202, JAKI-9218, PDKV Kanchan	Nov.23	Feb.24	
	Wheat		PDKV- Sardar, AKW-4627, AKAW-1071 PDKV-Washim, NIAW-301	Nov-23	Mar-24	
	Linseed		NL-260, Local	Nov. 23	Mar. 24	
	Mustard		Pusa Bold	Oct. 23	Feb. 24	

7	**Nutritional Garden**					
	Spinach, Potato Coriander, Okra, Brinja, Fenugreek, Chilli, Tomato, Cucurbits, Pumpkin, Radish, Carrot	0.10	Evergreen, Kufri, Sugandha Parbhani Kranti, Mahyco-11, Mahindra Hy.	July-Oct. 23	Aug – Dec. 23	

8. IFS Model

Sr. No.	Component	Crop/Enterprise/breed	Area/No.
01	Horticulture	Mandarin, Guava, Custard-apple	0.40 ha
02	Agronomical crops	Greengram, Blackgram, Bengalgram, wheat	0.40 ha
03	Poultry	Giriraja, Kaveri	400 nos.
04	Goatery	Osmanabadi, Non-descript	50 nos
05	Vermicompost unit	Eisenia fetida	1000 sq ft
06	Azolla unit	Pinnata	200 sq ft

4. Literature to be Developed/Published

A. Literature developed/published

S. No.	Topic	Number
1	Research papers	04
2	Technical reports	02
3	News letters	02
4	Training manuals	02
5	Popular articles	06
6	Extension literature	02
7	E-publication	01
	Total	**30**

B. Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD / DVD / Audio-Cassette) and video clippings	Title of the programme	Number
1	Video clipping	Various Crops	10

C. Details of social media platforms to be started / continued

S. No.	Type of social media platform	Title / Purpose	Number
1	YouTube Channel	KVK Buldana-I	01
2	Facebook page	www.facebook.com/KVKBuldana1	01
3	Mobile Apps	Satpuda App	01
4	WhatsApp groups	Farmers awareness	1650
5	Twitter Account	KVK Buldana-I @BuldanaI	01

D. Success stories/Case studies identified for development as a case (Based on previous years success)

S. No.	Title of success story / case study identified	Proposed month for case/story to be prepared/ developed
1	Production of Organic Inputs (Bio Fertilizers and Biopesticide)	May-23
2	Natural Farming	Oct. 2023
3	Dal Mill	Nov. 2023
4	Mushroom Grower	Nov. 2023
5	Goat Farming	Aug. 2023

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

A. Practicing Farmers

a) PRA
b) Group Discussion
c) Village Survey

B. Rural Youth

a) PRA
b) Group Discussion
c) Village Survey

C. In-service personnel

Group discussion

5.2. Indicate the methodology for identifying OFTs/FLDs

For OFT:

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

For FLD:

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

5.3. Field activities

i. Name of villages identified/adopted with block name (from which year) -
   a. Hadiyamahal, Tq: Sangrampur (year 2021-22)
   b. Wadgaon Patan, Tq: Jalgaon Jamod (year 2021-22)

ii. No. of farm families selected per village: 100

iii. No. of survey/PRA conducted: 02

iv. No. of technologies taken to the adopted villages: 12

v. Name of the technologies found suitable by the farmers of the adopted villages:
Integrated Nutrient Management, Integrated Pest Management, Use of bio-fertilizer, Varietal evaluation, weed management, Polythene Mulch, BBF technology, Cotton Shredder, Feed & Fodder management, Kitchen Gardening, Value addition, biofertilizer production, seed production, fruit & vegetable cultivation.

vi. Impact (production, income, employment, area/technological– horizontal/vertical)
Impact will be assessed after completion of 3 years period of adoption on basis of production, income, employment, area of spread (horizontal & vertical) etc.

vii. Constraints if any in the continued application of these improved technologies – Saline track, depleting water table year by year, market rate fluctuation, costly inputs etc.

6. LINKAGES

6.1. Functional linkage with different organizations

Sl. N	Name of organization	Nature of Linkage (pl. specify)
1	Dr. P.D.K.V., Akola	Technical guidance regarding training, demonstrations & other extension activities etc.
2	Agril. Commissioner, Pune	Implementation of Govt. sponsored scheme & non-granted scheme.
3	State Agriculture Department (ATMA)	Collaboration in implementation of training, demonstrations, other extension activities & other schemes of State Govt. Provides financial support for conducting On Farm Testing, Demonstrations, Trainings & other extension activities under ATMA. KVK Scientists work as a Resource Person
4	District Soil Survey & Soil Testing Office Buldana	Joint Implementation of Soil Analysis
5	ICRISAT, Hyderabad	Monitoring demonstrations under SDC project
6	MANAGE, Hyderabad	Technical and Financial, DAESI Programme – One year diploma Programme for input dealers.
7	NIPHM, Hyderabad	Certificate Course on Insecticide Management for Insecticide Dealers/Distributors (12 Days)
8	A.D.O., Z.P., Buldana	Collaboration in implementation of extension activities.

		KVK Scientists work as a Resource Person for various training programmes & other activities.
9	State Animal Husbandry Dept.	To arrange & conduct livestock health & diagnostic camps. KVK Scientists work as a Resource Person for various training programmes & other activities.
10	MAFSU	To arrange & conduct livestock health & diagnostic camps. Also resource person for training
11	NABARD	To establish self-help groups (SHG) in villages
12	GSDA	Technical backstopping
13	PoCRA, Mumbai	Technical back stopping and monitoring of Farm Field School activities
14	MAVIM, Buldana	To conduct need based training.
15	Manav Vikas Mission, Buldana	Financial support for establishment of MSTL Van
16	Care India (NGO)	Technical backstopping
17	Krishi Vikas (NGO)	Technical backstopping
18	Mahatma Phule Samaj Seva Mandal, Karmala, Dist Solapur NGO)	Technical backstopping
19	BAIF India (NGO)	Technical backstopping
20	RCF India	Technical backstopping
21	Dipak Fertilizer	Technical backstopping
22	Godrej Agrovet	Technical backstopping
23	Bhart Bhuddeshiya Sanstha, Asalgaon	Technical support
24	Krushi va Gramin Prashikshan Sanstha, Talni	Technical support

6.2. Details of linkage with ATMA

S. No.	Programme	Nature of linkage
1	Training	Conducting training programmes
2	Demonstration	Conducting demonstrations
3	Extension Activities	Joint Implementation
4	Diagnostic Visits	Joint Implementation

6.3. Give details of programmes under National Horticultural Mission - NA

S. No.	Programme	Nature of linkage
1	--	

6.4. Nature of linkage with National Fisheries Development Board - NA

S. No.	Programme	Nature of linkage
1	**--**	

6.5. Additional Activities Planned including sponsored projects (NARI/DAESI/DAMU/DFI/PKVY,Skill Trainings, etc.) / schemes during 2023, if involved.

S.No.	Name of the agency / scheme	Name of activity	Technical programme with quantification	Financial outlay (Rs.)	Names of the team members involved
1	DAESI	Diploma course	01	740000/-	S.A. Borde
2	ASCI	Skill Training Programme	02	491000/-	S.A. Borde and S.P. Datey
3	ICAR	Out scaling of Natural Farming	Training-3 Awareness Programme Demonstration-16	465000/-	S.M.Umale V.G.Jadhao
4	PMFME	Beneficiary training	Training, Awareness Programme, Visits	240000/-	S.P. Datey, S.A. Borde
5	MAGNET	FPO training	Training, Awareness Programme, Visits	--	S.P. Datey

6.5.1. Details of activities planned under NARI (Including FSN project) - NA

S. No.	Name of the village	Activities planned	No. of families to be covered
	--		

6.5.2. Details of skill trainings planned (sponsored by ASCI)

S. No.	Name of Job Role	Duration (No. of hours)	No. of participants
1	Small Mushroom Grower	210	20
2	Garden Keeper	210	20

6.5.3. Details of activities planned under TSP - NA

S. No.	Name of the village	Activities planned	No. of families to be covered
	--		

6.5.4. Details of activities planned under Krishi Kalyan Abhiyan (KKA) - NA

S. No.	Name of the village	Activities planned	No. of families to be covered
	--		

6.5.5. Details of seed production planned under Seed Hub on Pulses - NA

S. No.	Name of the crop	Variety	Stage (Foundation / Certified)	Quantity of seed to be produced (q)
	--			

6.6. Activities planned in respect of FPOs / FPCs

1. No. of FPOs / FPCs to be formed: 05

2. No. of existing FPOs / FPCs to be facilitated: 10

3. Type of support to be provided to existing FPOs / FPCs: Technical Backstopping

S. No	Name of the FPO / FPC	No. of members	Major activities of FPO / FPC	Type of support to be provided by KVK
1	Shramsafalya FPO Ltd., At.Po. Pimpalgaon Kale Tq: Jalgaon Jamod, Dist: Buldana	1000	Seed Production	Training and Technical Support
2	Shodh FPO Ltd, At.Po. Asalgaon Tq: Jalgaon Jamod, Dist: Buldana	400	Agriculture Service Provider	Training and Technical Support
3	Awajisiddha FPO Ltd At.Po. Sungaon Tq: Jalgaon Jamod, Dist: Buldana	500	Seed Production	Training and Technical Support
4	Shetikranti FPO At.Po. Jalgaon Jamod Tq: Jalgaon Jamod, Dist: Buldana	400	Agriculture Machinery	Training and Technical Support
5	Shatak Agro Producer Co At.Po. Kakanwada Tq: Sangrampur, Dist: Buldana	1000	Seed Production	Training and Technical Support
6	Sonala Agro Producer Co At.Po. Sonala Tq: Sangrampur, Dist: Buldana	500	Seed Production	Training and Technical Support
7	Muktai Krushi Vikas & Gramin Prashikshan FPO At.Po. Manaradi Tq: Sangrampur Dist: Buldana	500	Agriculture Service Provider	Training and Technical Support
8	Supo Farmer Prodcing Company	400	Goat Farming	Training and Technical Support
9	Krishidoot Farmer Producing Co, Jalgaon	350	Organic Farming	Training and Technical Support
10	Navnath Farmer Prodcing Company, Mohidepur	450	Production of Organic Fertilizers	Training and Technical Support
11	Adikrushi Jaiwik Farmer Producer Co, Jalgaon	1000	Organic Farming	Training and Technical Support
12	Sonpaul Farmer Producer Co, Lonar	1000	Fruit processing	Training and Technical Support

6.7. Activities planned in respect of developing Integrated Farming System (IFS) Models on farmers' fields during 2023

S. No	Name of the village	No. of IFS models to be identified / developed	Major components of IFS model
1	Nil		

7. Convergence with other agencies and line departments in the district:

S. No.	Name of the department / Agency	Type of convergence	Area (ha) / No. of farmers to be benefited
1	M/s. Kalash Seeds, Jalna	Vegetable Seed plot	25
2	BAIF, Pune	Training	400

8. Innovator Farmer's Meet 2023

Sl. No.	Particulars	Details	Expected No. of participants
1	FPO Chairman meet	April 2023	20
2	Progressive farmers meet	May 2023	50
3	Farm innovators meet planned	Oct. 2023	15

9. Utilization of hostel facilities

S. No.	Month	No. of days utilized
1	January	15
2	February	200
3	March	150
4	April	80
5	May	60
6	June	100
7	July	150
8	August	180
9	September	120
10	October	180
11	November	200
12	December	160
	Total	**1595**

10. Details of online activities planned (If any)

S. No.	Type of activities	No. of programmes	Mode of implementation (Video conferencing / Audio Conferencing / Facebook Live / YouTube Live, etc)	No. of participants to be covered
1	Farmers trainings	10	Video conferencing	700
2	Farmers scientist's interaction Programme	3	Video conferencing	120
3	Farmers seminars	3	Video conferencing	120
4	Expert lectures	3	Video conferencing	120

11. Details of collaborative applied research projects planned if any -

S. No.	Name of the research project	Funding agency	Collaborating organizations	Year of commencement	Major activities planned
1	Nil				

Annexure - I

Training Programme

i) Farmers & Farm women (On Campus)

Date	Client ele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
Jan	PF	Management of Natural Farming	2	30	1	31	9	0	9	40
Feb.	PF	Management of Natural Farming	2	30	2	32	8	0	8	40
Feb.	PF	Improved cultivation of Summer Greengram	1	1	15	2	20	3	2	5
March	PF	Management of Natural Farming	2	30	2	32	3	5	8	40
March	RY	Production of JIvamrut,Bijamrut,and other Organic inputs	1	15	2	20	3	2	5	25
May	PF	Improved Production Technology of Millets	1	1	15	2	20	3	2	5
June	PF	Improved Production Technology of Soybean	1	1	15	2	20	3	2	5
June	Pf	Improved Production Technology of Pigeonpea	1	1	15	2	20	3	2	5
Oct	PF	Improved Production Technology of Chickpea	1	1	15	2	20	3	2	5
Nov	PF	Improved Production Technology of Wheat	1	1	15	2	20	3	2	5
Horticulture										
June	PF	Ultra-density orchard plantation preparation for site	01	15	00	15	05	00	05	20
July	PF	Management of Mrig Bahar in crop	01	15	00	15	05	00	05	20
August	PF	Pre-mansoon vegetable production, scope for new farmers	01	15	00	15	05	00	05	20
Sept	PF	Integrated crop management in Chilli	01	15	00	15	05	00	05	20
Livestock prod.										
Jan	PF	Importance of silage making for dairy animals during scarecity period	01	15	0	15	5	0	5	20
Feb	PF	Importance of Mineral mixture in dairy animals	01	15	0	15	0	0	0	15
April	PF	Care and management during summer season	01	10	3	13	2	0	2	15
March	PF	Backyard poultry farming	01	10	3	13	2	0	2	15

August	RY	Clean milk production	01	15	0	15	0	0	0	15
Sept	PF	Heat detection and new technique for anoestrous probler & artificial insemination	01	12	03	15	03	0	03	18
Oct	PF	Various Contagious disease & their control in dairy animals	01	10	3	13	2	0	2	15
Agril. Engg.										
May	PF	Acid and chlorine treatment for increasing life of drip set	01	20	0	20	5	0	5	25
Jul	PF	Rain Water Harvesting	01	15	0	15	5	0	5	20
Sep	PF	Opening up of Furrow for moisture conservation	01	15	0	15	5	0	5	20
Dec	PF	PKV feed mill for production of feed pallets	01	15	0	15	5	0	5	20
Dec	PF	Dal Milling an Enterprise for rural youths	01	15	0	15	5	0	5	20
Dec	PF	PKV Fruit grader for grading of round shape citrus fruits (lemon& sweet orange)	01	15	0	15	5	0	5	20
Home Sc.										
Feb	PF	Value addition	01	0	22	22	0	3	3	25
Apr	PF	Income generation activities for empowerment of rural Women	01	0	22	22	0	3	3	25
May	RY	Mushroom Production	01	00	23	23	00	02	02	25
Nov	RY	Sericulture	01	23	00	23	02	00	02	25
Dec	RY	Value addition	01	0	22	22	0	3	3	25
Plant Protection										
Jan	PF	Integrated Pest Management	03	54	0	54	06	0	06	60
April	PF	Integrated Disease Management	01	18	0	18	02	0	02	20
July	PF	Bio-control of pests and diseases	01	18	0	18	02	0	02	20
Aug	PF	Bio-pesticides production	01	20	0	20	05	0	05	25
Oct	PF	Vermi-compost production	01	20	0	20	05	0	05	25
Extension Education										
Feb.	RY	Para extension workers	01	23	00	23	02	00	02	25
May	PF	Entrepreneurial development of farmers/youths	01	23	00	23	02	00	02	25
Fisheries										
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Soil Health										
Feb	PF	Importance of Soil Testing	1	15	3	18	1	1	2	20
Apr	PF	Integrated Nutrients Management of Major Kharif Crop	1	15	3	18	1	1	2	20
Apr	PF	Vermi-compost production	1	15	3	18	1	1	2	20
Mar	PF	Organic manures production	1	15	3	18	1	1	2	20

ii) Farmers & Farm women (Off Campus)

Date	Clientele	Title of the training programme	Duration in days	Number of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
Crop Production										
April	EF	Management of Natural Farming	1	1	15	2	20	3	2	5
May	EF	Improved Production Technology of Millets	1	1	15	2	20	3	2	5
Horticulture										
Jan	PF	Nursery management in Vegetable crops	01	15	00	15	05	00	05	20
Jan	PF	Improved package of practices in Watermelon cultivation	01	15	00	15	05	00	05	20
Feb	PF	Water management in high-value crops at scarcity time	01	15	00	15	05	00	05	20
Feb	PF	Effect of cold waves on banana cultivation	01	15	00	15	05	00	05	20
March	PF	Post-harvest technology in Turmeric & Ginger	01	15	00	15	05	00	05	20
Oct.	PF	Plantation of marigold, Chrysanthemum & improved package of practices	01	15	00	15	05	00	05	20
Nov	PF	Crop Diversification of Ajwain, Fennel over Agronomical crops	01	15	00	15	05	00	05	20
Dec	PF	Kagzi-lime, cash fruit crop for small farmers of Buldana district	01	15	00	15	05	00	05	20
Livestock prod.										
May	PF	Fodder cultivation and conservation	01	15	0	15	0	0	0	15
June	PF	Technique to control endo / ecto parasitic infestation	01	10	3	13	2	0	2	15
July	PF	Care and management of metabolic diseases in dairy animals	01	15	0	15	0	0	0	15
August	PF	Various contagious diseases and their control	01	15	0	15	0	0	0	15
Dec	PF	Importance of silage making for dairy animals during scarcity period	01	15	0	15	5	0	5	20
Agril. Engg.										
Feb	PF	Soil and water conservation methods	01	20	0	20	0	0	0	20
Mar	PF	Rain water harvesting	01	20	0	20	0	0	0	20
Jun	PF	Use of BBF for sowing of Soybean crop gram crop	0	15	0	15	0	0	0	15

Jun	PF	Use of BBF for sowing Soybean crop	1	20	0	20	05	0	5	25
Jun	PF	In Situ Soil and Water Conservation	01	15	0	15	5	0	5	20
Jun	PF	Fertigation Through Micro Irrigation	01	15	0	15	5	0	5	20
Aug	PF	Advance implements for drudgery reduction in intercultural operation	01	15	0	15	5	0	5	20
Oct	PF	Use of reaper for harvesting of Soybean	01	15	0	15	5	0	5	20
Nov	PF	Use of BBF for sowing of Bengal gram crop	01	15	0	15	5	0	5	20
Home Sc.										
Mar	PF	Household food security by kitchen gardening and nutrition gardening	01	00	23	23	00	02	02	25
Apr	PF	Value addition	01	00	23	23	00	02	02	25
May	PF	Income generation activities for empowerment of rural Women	01	00	23	23	00	02	02	25
June	PF	Location specific drudgery reduction technologies	01	00	23	23	00	02	02	25
Plant Protection										
March	PF	Integrated pest and disease management in watermelon	01	18	0	18	02	0	02	20
April	PF	Integrated pest management for pink bollworm in cotton	01	18	0	18	02	0	02	20
May	PF	Integrated pest management in cotton	01	18	0	18	02	0	02	20
July	PF	Integrated pest management in soybean	01	18	0	18	02	0	02	20
July	PF	FAW management in maize	01	18	0	18	02	0	02	20
Sept	PF	Safe use of pesticides	01	18	0	18	02	0	02	20
Sept	PF	Integrated pest disease management in bengalgram	01	18	0	18	02	0	02	20
Oct	PF	Integrated pest management in red gram	01	18	0	18	02	0	02	20
Extension Education										
Jul	PF	Leadership development	0	0	0	0	0	0	0	0
Sept	PF	Group dynamics	01	23	00	23	02	00	02	25
Nov.	PF	Entrepreneurial development of farmers/youths	01	23	00	23	02	00	02	25
Fisheries										
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Soil Health										
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ii) Vocational training programmes for Rural Youth

Crop / Enterprise	Identified Thrust Area	Training title*	Month	Duration (days)	No. of Participants			SC/ST participants			G. Total
					M	F	T	M	F	T	
Nursery	Garden Keeper	Garden Keeper	Mar	26	10	05	15	04	01	05	20
Mushroom	Small Mushroom Grower	Small Mushroom Grower	Mar	26	10	05	15	04	01	05	20
Dal Mill	Small scale processing	Employment of rural youth in small scale enterprises dal mill	Mar	05	06	06	12	04	04	08	20
Farm machinery	Care & maintenance of farm implement	Tractor driving for farm women	May	07	0	12	12	0	03	03	15
Cattle	Dairy Farming	Dairy farming	Aug	05	12	0	12	03	0	03	15
Poultry	Poultry farming	Poultry farming – A subsidiary business	Oct	05	10	07	17	03	0	03	20
Goat	Goat farming	Goat farming for meat purpose	Dec	05	15	0	15	05	0	05	20
		Total			63	35	98	23	9	32	130

iii) Training Programme for extension functionaries

Date	Clientele	Title of the training Programme	Duration in days	No. of participants			Number of SC/ST			G. Total
				M	F	T	M	F	T	
On Campus										
Mar	EF	Capacity building for ICT application	01	23	0	23	02	00	02	25
April	EF	Management of Natural Farming	1	1	15	2	20	3	2	5
May	EF	Improved Production Technology of Millets	1	1	15	2	20	3	2	5
May	EF	Improved cultivation of Custard apple	01	30	05	35	05	04	09	44
July	EF	Integrated pest management in cotton, soybean, Maize and kharif pulses	01	100	20	120	20	10	30	150
Oct	EF	WTO and IPR issues	01	23	0	23	02	00	02	25
Oct	EF	Integrated pest management in redgram, Maize and bengalgram.	01	100	20	120	20	10	30	150
Dec	EF	Exotic vegetable crop cultivation	01	30	05	35	05	04	09	44

iv) Sponsored Programme

Discipline	Sponsoring agency	Clientele	Title of the training programme	No. of courses	No. of participants			Number of SC/ST			G. Total
					M	F	T	M	F	T	
a) Sponsored training Programme											
Agronomy	ATMA	PF	Millets Production Technology	25	800	100	900	80	20	100	1000
Agril. Extn	ATMA	PF	INM in soybean	25	800	100	900	80	20	100	1000
Agril. Extn	ATMA	PF	INM in bengalgram	25	800	100	900	80	20	100	1000
			Total								
b) Sponsored research programme											
	--										
			Total								
c) Any special programmes											
	--										
			Total								

Annexure - II

Details of Budget Estimate (2023-24) based on proposed action plan (Rs. in Lakhs)

S. No.	Particulars	proposed BE 2023-24
1	**Recurring Contingencies**	
1.1	**Pay & Allowances**	205.00
1.2	**Traveling allowances**	3.00
1.3	**Contingencies**	
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	7.00
B	POL, repair of vehicles, tractor and equipment's	
D	Meals/refreshment for trainees (ceiling up to Rs.150/day/trainee be maintained)	10.00
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)	
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)	
G	Training of extension functionaries	
H	Maintenance of buildings	
I	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
	TOTAL Recurring Contingencies	**225.00**
2	**Non-Recurring Contingencies**	
2.1	**Works**	20.00
2.2	**Equipment's including SWTL & Furniture**	15.00
2.3	**Vehicle** (Four-wheeler/Two-wheeler, please specify)	
2.4	**Library** (Purchase of assets like books & journals)	
	TOTAL Non-Recurring Contingencies	**35.00**
3	**REVOLVING FUND**	
	GRAND TOTAL	**260.00**