#### **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<sup>o</sup> to 21.170 North, longitude 75.57<sup>o</sup> to 76.49<sup>o</sup> 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 2021-22 and are given in prescribed format in forthcoming pages.

Buldana Date: - 06.02.2021 (Vikas G. Jadhao) Sr. Scientist & Head KVK Buldana-I (M.S.)

# ICAR-ATARI, Pune DETAILS OF ACTION PLAN OF KVKs DURING 2021 (1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021)

#### **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 &
	Office	Fax		No. of visitors (hits)
Krishi Vigyan Kendra,	07266-	07266-	kvkbuldana@	www.kvkbuldhana.org
Warwat Bakal Road,	221620	221620	gmail.com	
Jalgaon Jamod,				
Dist: Buldana (M.S.) 443402				

#### 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,	07266-	07266-	sesjj2015@	
Warwat Bakal Road	221620	221620	gmail.com	
Jalgaon Jamod,			kvkbuldana@	
Dist: Buldana (M.S.) 443402			gmail.com	
			-	

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

Name	Telephone / Contact				
	Office	Mobile	Email		
Vikas G. Jadhao	07266-221620	9423338595	kvkbuldana@gmail.com		

#### **1.4. Year of sanction:** October, 1994

# **1.5. Staff Position (as on January 31, 2021)**

GI			If Permanent, please indicate			If Temporary, pl. indicate the	
SI. No.	Sanctioned post	Name of the incumbent	Discipline	Current Pay Band	Current Grade Pay	Date of joining	consolidated amount paid (Rs./month)
1	Senior Scientist and Head	Vikas G. Jadhao	Agril. Engg.	37400-67000	9000	28.11.18	Permanent
2	Subject Matter Specialist	Anil T. Gabhane	Plant Protection	15600-39100	5400	27.06.95	Permanent
3	Subject Matter Specialist	Shyamsunder A. Borde	Extension Education	15600-39100	5400	25.02.05	Permanent
4	Subject Matter Specialist	Sanjay M. Umale	Agronomy	15600-39100	5400	19.06.06	Permanent
5	Subject Matter Specialist	Dr. Vinod S. Janotkar	AHDS	15600-39100	5400	18.12.08	Permanent
6	Subject Matter Specialist	Shashank P. Datey	Horticulture	15600-39100	5400	08.07.09	Permanent
7	Subject Matter Specialist	Nitin P. Talokar	Agril. Engg.	15600-39100	5400	08.03.11	Permanent
8	Programme Assistant	Ku.Jyoti W.Bobde	Home Science	9300-34800	4200	22.02.02	Permanent
9	Computer Programmer	Yogesh R. Wakekar	Computer	9300-34800	4200	19.02.02	Permanent
10	Farm Manager	Samadhan J. Bagade		9300-34800	4200	17.06.95	Permanent
11	Accountant/ Superintendent	Pradip E. Raut		9300-34800	4200	10.07.95	Permanent
12	Stenographer	Vacant					
13	Driver 1	Mangesh S. Verulkar		5200-20200	2000	13.11.18	Permanent
14	Driver 2	Vacant					
15	Supporting staff 1	Ramesh T. Wankhade		5200-20200	1800	01.08.96	Permanent
16	Supporting staff 2	A. Samir A. Sadik Deshmukh		5200-20200	1800	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.	Name of	Source	Stage					
<b>N.</b>	building	of		Complete			Incomple	te
		funding	Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construc tion
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	212425/			
8	Polytunnel	NHM	30.06.09	213.00	212433/-			
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, M.B. Plough, Cultivator	Feb. 2012	700000/-	4091 km	Working
Tractor (John Deer) procured through ICAR fund	Mar.2012	710000/-	3598 km	Working
Mobile Soil Testing Van Under Manav Vikas Programme	Mar. 2012	350000/-	7515 km	Working
Jeep (Mahindra Bolero)	Nov. 2019	796500/-	17029 km	Working

# C) Equipment's & AV aids

Name of the	Year of	Quantity	Cost (Rs.)	Present status
equipment	purchase			
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	30.12.95	01	7119.00	Working condition
case				
Slide Projector with	30.12.95	01	15302.00	Working condition
tray				
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	2006-07	01	59280.00	Working condition
Machine				_
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	28.02.95,19.0	13	67300.00	Working condition
	8.95,11.03.96,			
	27.03.01,30.0			
	3.02, Mar 06			
Office table	28.02.95,19.0	18	44754.00	5 tables are not in working
	8.95, 11.03.96			condition
	30.03.96,15.1			
<u><u>Q</u><sub>4</sub> = 1</u>	2.96 16.02.05	06	1250.00	
Stool	19.08.95	00	1350.00	Not in working condition
Chairs	28.02.95,	15	59870.00	12 Not in working
Water cooler	11.03.90 Mor 06	02	27150.00	Working condition
Crates	Wai 00 28 02 05	02	27130.00	Not in Working condition
Trolloy	28.02.95	00	2244.00	Not in Working condition
Tioney	28.02.95,	02	3200.00	Not in working condition
Office utensils	05 08 95	Set	1417.00	Not in Working condition
Lock	1995-	11	807.00	Not in Working condition
LOUK	96,1996-97	11	007.00	The management of the second s
	1997-98			
Fan	19.09.95,	07	7275.00	4 Not in Working condition
	28.01.97			C
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,	04	12400.00	Working condition
	27.03.01			
FH bed, bedding &	Mar 06	08	35504.00	Working condition
Utensils 4 rooms				
Training cum	Mar 06		182045.00	Working condition
conference hall				
furniture				
Iron Rack	28-29.11.95,	04	3556.00	Working condition
(sericulture)	19.03.96	1 /	7022.00	
Drip irrigation set	29-03-95	1 set	/023.00	Not in Working condition
Wooden hoe	19.10.95	<u> </u>	150.00	Not in Working condition
Secautor	30.11.95	10	1200.00	Not in Working condition
Knile Dustar	30.11.95	0	300.00	Not in Working condition
Vnoncook enrover	29.03.97	1	990.00 3650.00	Not in Working condition
Knapsack sprayer	29.03.97	1	3630.00	Not in working condition
Cultivator Blada	29.03.97	2	3479.00	Not in Working condition
Rabbit care	20.7.90 05 11 06	<u> </u>	2107.00	Not in Working condition
Kudali	03.11.90	1	40.00	Not in Working condition
Matok	04.02.97	2	40.00 80.00	Not in Working condition
IVIALUK	04.02.77	L	00.00	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	13-25.11.95		7201.00	Not in Working condition
implements				6
Jack	30.03.96	1	380.00	Working condition
Disc harrow	2006-07	1	43304.00	Working condition
Seed drill	2006-07	1	29102.00	Not in Working condition
Dibbler	2006-07	2	1500.00	Working condition
Seed treatment drum	2006-07	1	1400.00	Working condition
Harrow	2006-07	1	2500.00	Working condition
Bullock drawn ridger	2007-08	1	3000.00	Working condition
Tractor drawn ridger	2007-08	1	20280.00	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 &
Godrej table	2009-10	06	45266.00	ERNET India under E-
Godrej chairs	2009-10	20	34166.00	linkage project
Godrej Printer table	2009-10	02	11041.00	
Rack	2009-10	01	6350.00	
Computer server	2009-10	01	62400.00	
system				
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,	2009-10	5 set		
Headphone, Webcam				
Stabilizer with battery	2009-10	1 set		
Pulverizer machine	2011-12	1	49028.00	Working condition
Systonic Digital Ph	2011-12	1	10940.00	Working condition (RF
meter				A/c)
Systonic digital	2011-12	1	12970.00	Working condition (RF
conductivity meter				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
Destoner	2013-14	1		Pune
Dehuler	2013-14	1		
Floor shifter	2013-14	1		
Pulverizer	2013-14	1		
PKV Dal Mill	2013-14	1		Provided by Dr. PDKV
Fruit Grader	2013-14	1		Akola
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	2017-18	1 set	738359.00	Working condition
Reversible plough	2019-20	1	63000.00	(RF A/C) Working condition
Cotton Slashar	2017-20	1	155000.00	Working condition
Dest Hele Discours	2019-20	1	124000.00	
Post Hole Digger	2019-20	1	134999.00	working condition

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

Sl. No.	Particulars	Date
1	Scientific Advisory Committee – Meeting 1	May, 2021
2	Scientific Advisory Committee – Meeting 2	November, 2021

#### 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 Sorghu	ım					
	•	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 + Sorg	ghum +	Red gram + Sorghum	6:1:2:1			
	•	Soybean + So	rghum -	+ Red gram	9:2:1			
3	Doubl	e Cropping: R	ainfed s	ituation (If late rains are reco	eived)			
	•	Green gram	-	Sunflower / Wheat / Gram / S	Safflower			
	•	Black gram	-	Safflower / Wheat / Gram				
	•	Soybean	-	Wheat / Gram				

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

#### a. Soil type

SI.	Agro-climatic Zone	Characteristics
No		
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	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 <i>Kharpanpatta</i> 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	<b>Major Field Crop</b>	Area (ha)	<b>Production</b> (MT)	Productivity (kg/ha)
Kharif	Season			
1	Kharif Jowar	10449	12899	1234
2	Maize	26276	13459	546
3	Bajra	585	351	600
4	Redgram	77957	80080	1027
5	Greengram	17254	13142	761
6	Blackgram	18679	12234	655
7	Soybean	371528	416772	1121
8	Ground Nut	355	346	974
9	Sesamum	976	236	242
10	Cotton	210909	183242	147
Rabi S	eason			
1	Rabi Jowar	12932	11742	908
2	Maize	24158	32557	1347
3	Wheat	95635	217514	2415
4	Bengalgram	177025	280159	1582
Summ	er Season			
1	Maize	251	377	1500
2	Summer groundnut	256	302	1180

(Source- Forth advance estimate, GOM 2019-20)

#### Area Production & Productivity of Major fruit crop in Buldana District

Sr. No.	Name of Crop	Area (Ha)	<b>Production</b> (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 2018)

Sr.No	Name of Crop	Area (Ha)	<b>Production</b> (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 2018)					

#### Area Production & Productivity of Major Vegetable crop in Buldana District

#### **2.5. Weather data (2020)**

Month Rainfall **Temperature 0 C Relative Humidity (%)** Maximum Minimum Minimum  $(\mathbf{mm})$ Maximum January 0.0 25.8 14.0 69 50 February 0.0 29.5 16.2 54 36 5.0 32.9 52 30 March 19.6 April 0.0 38.2 24.5 40 26 May 41 23 13.3 41.3 27.6 June 200.1 33.2 23.6 78 58 31.4 July 236.8 23.3 83 69 239.9 28.4 22.5 88 76 August September 228.9 29.2 22.5 87 76 October 23.0 29.9 21.9 74 64 November 18.0 28.9 17.5 56 45 15.3 December 2.0 28.2 64 50 50 **Total / Average** 968.6 31.4 20.7 66 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

SI.	Name	Name	Major	Major problem	Identified Thrust Areas
No.	01 Taluka	of the village	crops & enternrise	identified	
1	Nandura	Dhanora	Cotton	Sowing of Cotton in	Method quantity & time
1	Tunduru	Iungam	Cotton	light soil & rainfed	of fertilizer application.
		Junguin		situation.	Integrated Nutrient
2	Sanora	Wadgaon		Management practices	Management
_	mpur	Wan		(wider spacing, Seed	Integrated pest & diseases
	1			treatment, No proper gap	management.
				filling, Protective	
				irrigation at critical	
				stages)	
				Imbalance nutrient	
				(Soil test Deced	
				Fertilizer application	
				Inadequate & low-	
				Quality organic matter	
				used) Improper Pest,	
				diseases mgt.	
			Soybean	Unawareness about	New Variety,
				New variety,	Integrated Nutrient
				No use of good quality	Management,
				Secu, Imbalanco nutriont	Proper Pest & diseases
				management	management
				(No use of 2% foliar	
				spray of Urea)	
				Improper Pest, diseases	
				mgt.	
			Maize	Scarcity of Labour for	Weed Management,
				Weeding,	Integrated Nutrient
				Higher cost for Weeding,	management
				Imbalance nutrient	
				management	
			Red gram	Imbalance nutrient	Integrated Nutrient
			/ Green-	management,	management,
			gram/	Excess Urea	Foliar Application of 2%
			в.Gram /	Application,	Urea,
				Improper pest &	Integrated pest & diseases
				disease management	management

	V	Wheat	Low yield due to use of traditional crop	Importance of New High Yielding Varieties,
			varieties,	Nutrient management
			Improper Sowing time,	Weed Management
			Imbalance nutrient	Weed Management
			management	
	C	Ground	Unawareness about	BBF or Polyethylene
	N	Nut	New Technology,	Mulching, Nutrient
			Secondary and	management,
			micronutrient	Proper Pest & diseases
			deficiencies	management
	H	Horticult-	Non availability of	Improved Nursery
	u	iral crops	guanine planting	techniques for vegetable
			Material,	seedlings,
			Improper Management	Application of growth
			Practices, Improper	regulator in vegetable and
			Spacing,	fruit crops,
			Imbalance Nutrient	Pre harvest & Post harvest
			Management, Improper	techniques of vegetable,
			Insect	fruits & other Horticultural
			Pest and disease	crops,
			Management,	Micronutrient application
			Improper use of	in Horticultural crops,
			Irrigation facilities,	Fruit & vegetable
			Flower and fruit drop,	preservation,
			Post-narvest losses of	Irrigation management in
			returns due to direct	Horncultural crops,
			selling Non	Introduction of new
			availability of value	water requirement
			added products	Cultivation of tissue
				culture banana
		Soil &	Improper tillage	Soil and water
	с   и	vater	operation & seed bed	conservation
		conservati	preparation.	Use of proper implements
		on	Water scarcity	Maintenance of tractor &
		Agril.	Non adoption of	tractor drawn implements
	E	Engg.)	in-situ soil & water	Post harvest technology
			conservation techniques	Coro and maintenance of
	I	rrigation	Improper method of	Plant Protection
		1115utton	irrigation	equipments
	P	Post-	Lack of knowledge of	~Yaipinonto
		Harvest	simple techniques of	
	Т	Fechnology	PHT <i>viz</i> . clean Cotton	
		81	picking, grading,	

		available fruit packaging grading & processing	
	Mechaniza	Lack of knowledge	
	tion	about improved	
	tion	Agriculture implements	
	Drudgery	Drudgery in agricultural	
	in field	operation	
	operation	Time consuming	
	- <b>F</b>	traditional method of	
		operation	
	Cattle	Management & health.	Formulation of balance
	0	Non adoption of proper	ration for Dairy animals,
		housing systems.	Scientific feeding of
		Manage mental	animals.
		problems like	Ecto-parasitic infection in
		identification, dehorning.	animals,
		castration,	Inbreeding problems in
		Unawareness about	goat & dairy animals,
		Vaccination,	Worms problems in
		Irregular Deworming,	animals,
		Unavailability of timely	Improving backvard
		treatment,	poultry,
		Low Milk Yield	Proper housing of animals,
	Buffalo	High Mortality in	Vaccination and healthcare
	Duituio	Calves,	in animals,
		Silent Heat.	Entrepreneurship
		Highly Worms.	development through
		Infection in Milch	Dairy, Poultry & Goatry
		Buffalo	
	Goat &	Highly abortion rate,	
	Sheep	High incidence of	
	-	FMD, Less Use of	
		Concentrate in Feeding,	
		Mortality in Rainy	
		season	
	Doultar	Dearing of Death	
	rounty	Reads 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
	Women Drudgery reduction	Lack of awareness about agriculture tools & implements	Value addition of agricultural commodities
	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
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
Banana, Citrus	Nutrient Management, Water management, Pre/post-harvest management
Papaya	IPM, IDM
Watermelon/Muskmelon	Polythene mulch, ICM
Onion, Tomato, Brinjal, Chilli	Integrated crop management, Nutrient Management
Safed Musli	Improved variety, plantation management, post-harvest management.
Agricultural Engineering	
Mechanization	Use of Improved implements for mechanization of dryland Agriculture
Soil & Water conservation	In-situ soil moisture conservation
Micro Irrigation system	Use of improved irrigation methods like drip & Sprinkler irrigation system
Small scale processing	PKV Mini Dal Mill for pulses processing, PKV Deseeding machine for custard apple
Veterinary Science	
Dairy	Feed & Fodder production, Animal health, Use of mineral mixture
Goat	Up gradation of local goat, Health
Poultry	Feed & Rearing of birds
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**

0	FT	FLD (including CFLD)				
()	1)	(2)				
Number of OFTs	Number of Farmers	Area (ha)	Number of Farmers			
16	150	173.2	525			

#### 3.1. A. Details of targeted mandatory activities by KVK

Trai	ning	Extension Activities				
(.	3)	(4)				
Number of Courses Number of		Number of activities	Number of			
	Participants		participants			
103	2581	480	13541			

Seed Production (qt.)	Planting material (Nos.)	Animal / Bird production (Nos.)	Soil Samples to be test
(5)	(6)	(7)	(8)
100	37100	1700	2400

# 3.1. B. Operational areas details proposed during 2021

S.N.	Major crops & enterprise s 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	134164	Dhanora Jungam, Wadgaon wan	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	Dhanora Jungam, Wadgaon wan	FLD Training, Field visit
3	Pigeon pea	Low yield due to 1.variety 2.Nutrient Management 3. Helicoverpa infestation 4.Wilt Management	32567	Dhanora Jungam, Wadgaon wan	OFT, FLD, Training Field visit

4	Maize	Incidence of Fall Army Worm in maize in Kharif, Rabi & Summer season	17592	Dhanora Jungam, Wadgaon wan	FLD, Training, Field visit
5	Bengalgra m	Low yield due to Helicoverpa and wilt	45700	Dhanora Jungam, Wadgaon wan	OFT, Training, Field visit
6	Linseed	Low yield	New crop	Dhanora, Sungaon Wadgaon wan, Sagoda	OFT, CFLD, Training,
7	Mustard	Low yield	New crop	Dhanora,Wadgaon wan, Sagoda	CFLD, Training
8	Onion	Varietal evaluation	10000 ha	Jamod, Pimpri Gawali, Vihigaon, sangrampur	OFT
9	Turmeric	Low yield, disease attack	17500 ha	Nandura, Warvat Pimpalgaon,	OFT
10	Custard apple	Poor fruit set	1500 ha	Sungaon, shegaon, Usra, Asalgaon	FLD
11	Chilli	Poor yield, pest/disease attack	850 ha	Khamgaon, Jalgaon, Palshi	FLD
12	Turmeric	Poor yield, disease attack	17500ha	Nandura, Warvat Pimpalgaon,	FLD
13	Poultry deshi	Less eggs production Low weight gain Low growth rate		Umapur, Charban	1.OFT 2.Training
14	Cattle	Low production of fodder crop		Dhanora Jangam Wadgaon Van,	1.OFT 2.Training
15	Heifer	Low conception rate, failure of oestrous,		Dhanora jangam Charban	1.OFT 2.Training
16	Goat	Ignorance of regular deworming Parasitic infestation Low body weight gain		Dhanora Jangam Charban,Umapur,	1. FLD 2. Training.
17	Dairy	Low milk Production Non availability of green fodder during scarcity period, Wastage of fodder		Dhanora Jangam Wadali,wadati	1.FLD. 2. Training
18	Milch animals	Incidence of mastitis. High cost of treatment. Low milk yield. Economic loss		Dhanora Jangam Wadali, Malegaon gond	1.FLD. 2.Training
19	Subsoiler	Ill drains hard and compacted soil.	130 ha	Borala, Bhastan Matergaon	FLD, Training
20	Cotton shredder	Improper agro waste management	247600 ha	Nimbhora, Jalgaon Umapur	FLD, Training
21	BBF (soybean)	Low productivity of soybean crop	240000 ha	Pimpalgaon Kale	FLD, Training
22	BBF Groundnut	Low productivity of groundnut crop	1101 ha	Shelgaon Mukund, Sungaon	FLD, Training

23	Deseeding machine (Custard	Yield loss due to unfavorable climatic condition & value addition in peak production of	1300 ha	Khedra, Jalgaon and Asalgaon	FLD, Training
	apple)	custard apple			
24	BBF (Maze planting)	Low productivity and high labour demand in planting operation	3400 ha	Wadgaon patan, Kurangad	OFT
25	BBF Sorghum	Low productivity	4200 ha	Changeful Rudhana	OFT
26	Post Hole Digger (Horticult ure Plantation	Labour scarcity, high cost of labour and time	3800 ha	Sonala, Tunki	OFT and training
27	Processing / Value	unavailability of minimum processing facility	84000 ha	All district	Vocational training
	Addition (Pulses)	Unemployment in rural youth			
28	Animal drawn Sprayer	High cost of labour for spraying operation	745000 ha	All district	Method demonstration
29	Animal drawn 3- tyne hoe	High labour cost in intercultural operation	240000 ha	All district	Method demonstration
30	Animal drawn CRIDA Planter	Low yield due to improper plant population	240000 ha		Method demonstration
31	Micro Irrigation	Low economical life of micro irrigation unit	84000 ha		Training cum Method demonstration
32	Oyster mushroom	Unawareness about chemical sterilization method		Jamod, Asalgaon Sungaon Nandura,	OFT, training Extension activity
33	Revolving stool and stand	Drudgery in milking		Tunki Rajura Wadgaon, Dhanora Jungam	OFT, training Extension activity
34	Solar dryer technology	Dehydrated food in unhygienic condition		Khangaon Jalgaon, Rajura	FLD Training Extension activity
35	Nutritional kitchen garden	Low nutritious diet		Dhanora, Rajura, Kherda ,	FLD, training Extension activity
36	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	Vegetable	Fruit	Flower	Planta	Tuber	Others	Total
				Crops	S	S		tion	Crops		
								crops			
Varietal Evaluation					01						01
Seed / Plant production											
Weed Management	01										01
Integrated Crop Management		01									01
Integrated Nutrient Management		01							01		02
Integrated Farming System											
Mushroom cultivation											
Drudgery reduction										01	01
Farm machineries	02							01			03
Value addition					01						01
Integrated Pest Management			02	01							03
Integrated Disease Management											
Resource conservation technology											
Small Scale income generating enterprises											
Human Health											
TOTAL	03	02	02	01	02			01	01	01	13

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Wormi	Fisheries	TOTAL
						culture		
Evaluation of Breeds		01						01
Nutrition Management								
Disease of Management								
Value Addition								
Production and Management	01							01
Feed and Fodder	01							01
Small Scale income generating enterprises								
TOTAL	02	01						03

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

S N	Crop/ enterp rise & Season	Prioritized problem	Title of OFT	Technology options	Source of Techn ology	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	<ul> <li>T<sub>1</sub> - Farmer Practice</li> <li>T2 - Foliar Spray of 2%</li> <li>Urea</li> <li>T3 - foliar spray of GA</li> <li>@ 13.9 gram/ha at the time of square</li> </ul>	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	Linseed		Assess the performance of Linseed + Chickpea (4:2) intercropping	T <sub>1</sub> – Farmers practice (Sowing of sole Chickpea T2 – Sowing of Linseed + Chickpea (4:2) T3 – Sowing of sole linseed variety PKV NL260	PDKV (2015)	Linseed Seed variety PKV NL 260	16 kg	300	7	2100	Plant height No of pods/plant Yield qt/ha Net Return	S.M.Umale A.T.Gabhane
3	Wheat		Assess the performance of Post emergence application of clodinafop propargyl+ Metsulfuran	T <sub>1</sub> . No Spraying T <sub>2</sub> . Post emergence (application Metsulfuran Methyl @ 20gm ai/ha) At 35DAS	PDKV (2019)	Metsulfura n Methyl clodinafop propargyl+ Metsulfuran	8 gm 160 gm	1060	7	7420	Monocot Weed Count /sqmt, Dicot Weed Count /sqmt, Yield qt/ha, WI(%)	S.M.Umale A.T.Gabhane

# **B.** Details of On Farm Trial / Technology Assessment during 2021

			Methyl @ (0.06+0.004 Kg ai/ha) at 35DAS for controlling the weed flora in wheat	T <sub>3</sub> - Post emergence application of clodinafop propargyl+ Metsulfuran Methyl @ (0.06+0.004 Kg ai/ha) At 35DAS		Methyl						
4	Cotton	PBW has developed resistance to Bt cotton. Reduction in yield due to	Management of Pink bollworm ( <i>Pectinophora</i> <i>gossypiella</i> ) in Bt cotton	T1 (Farmers Practice) - 1 or 2 chemical pesticide sprays comprising of Chlorpyriphos 20 EC 30ml, Triazophos 40 EC 30 ml per 10 lit water							Percent green boll damage Percent loculi damage at harvest Yield (qt/ha) Cost of PP (Rs/ha) C:B ratio	Mr. Anil Gabhane & Mr. Sanjay Umale
		Incidence of PBW		T2- 1 <sup>st</sup> Spray profenophos 50 EC @ 20 ml per 10 lit water at 60 DAS 2 <sup>nd</sup> Spray Emamectin benzoate 5 SG @ 4.4 g per 10 lit water at 80 DAS and 3 <sup>rd</sup> spray L ambda	MPKVR ahuri, Joint Agrosco - 2018	Profenophos 50 EC Emamectin Benzoate 5 SG Lambda cyhalothrin 5 EC	500 ml 100 g 250 ml	284 420 197	07	1988 2960 1379 6327		
				cyhalothrin 5 EC @ 10 ml per 10 lit water at 100 DAS								
				T3- Installation of Pheromone Traps @ 2/acre for monitoring at square formation, Spray Azadirachtin 300 ppm @ 50ml/10 lit at flower initiation, 6 to 7 Inundative releases of	IPM packag e for Cotton 2017, Dr. PDKV, Akola	Pheromone traps Pectinolures Azadirachtin 300 ppm Trichocard Thiodicarb 75WP Deltamethrin	2 4 500 ml 18 500g 250 ml	25 20 237 900 1200 135	07	350 560 1659 6300 8400 945 17269		

				<i>Trichogramma</i> <i>bactreae</i> 60,000 per acre, Plucking of rosette flowers, ETL based application of Thiodicarb 75 WP 20 g per 10 lit water at boll formation followed by Deltamethrin 2.8 EC 10 ml per 10 lit water		2.8 EC						
5	Pigeon pea	Reductio n in yield due to incidence of pod borer complex	Management of pigeonpea pod borer complex	T1- Farmers practice 2- 3 Spraying of Propenophos @ 40ml, 2 <sup>nd</sup> sray Emammectin Benzoate @ 10 gm and Clorantriniprole @ 4ml per 10 lit water T2- 1 <sup>st</sup> spray - Clorantraniliprole 18.5 SC @3 ml per 10 lit water at 50 per cent flowering 2 <sup>nd</sup> spray- Flubendiamide 39.35 SC @2 ml per 10 lit water at pod filling stage	Dr. VNMKV, Ioint Agresco- 2018	Propenophos @ 40ml, Emammectin Benzoate @ 10 gm and Clorantrinipro le @ 4ml Clorantrani liprole 18.5 SC Flubendiami de 39.35 SC	500 ml 100 gm 60 ml 60 ml 40 ml	540 450 720 720 450	07	3780 3150 5040 <u>11970</u> 5040 3150 <u>8190</u>	Percent pod damage Yield (qt/ha) Cost of PP (Rs/ha) C:B ratio	Mr. Anil Gabhane & Mr. Sanjay Umale
				T3- 1 <sup>st</sup> spray Azadirachtin 300 ppm 50 ml /10 lit water 50% flowering 2 <sup>nd</sup> Spray Emamectin Benzoate 5 SG 4.4 g/10 lit water based on ETL 3 <sup>rd</sup> spray	Major uses of Pestici des, CIBRC publica tion 2018	Azadiracht in 300 ppm Emamectin benzoate 5 SG Lambda cyhalothrin	500 ml 100 g 250 ml	237 420 197	07	1659 2940 1379 		

6	Bengal gram	Jaki - 9218	Management of Helicoverpa in Bengalgram	Lamdacyhalothrin 5 EC 10 ml/10 lit water based on ETL 1 T1- Farmers practice- 2 to 3 sprsys o f Proenophos @40 ml, Emamectin Benzoate 5 SG 10 g/10 lit water		Proenophos Emamectin Benzoate 5 SG	500ml 100 gm	550 420	07	3850 2940	Percent pod damage Yield (qt/ha) Cost of PP (Rs/ha)	Mr. Anil Gabhane & Mr. Sanjay Umale
				Clorantraniliprole 18.5 SC @3 ml per 10 lit		Clorantrani liprole 18.5 SC	60ml	720		5040  11830	C:B ratio	
				T2—Etection of bird perches @15 /ha at 30 DAS Spraying of HaNPV @500 LE /Ha at bud formation stage followed by 2 <sup>nd</sup> spraing of HaNPV at 10 days interval. Spraying of Azadirction 300PPM @ 50ml /10liter of water after 10 days of 2 <sup>nd</sup> sprays of	Joint Agrosco 2019	HaNPV @500 LE /Ha Azadirction 300PPM	200 LE 500ml	800	07	5600 3500		
				HaNPV. T3 Spraying of Ethion 50EC @ 20 ml /10 liter of water at 50% flowering followedby clorantriniliprole 18.5 SC @ 2.5 ML /10 lter of water	Joint Agrosco 2019	Ethion 50EC clorantrinil iprole 18.5 SC	500 ml 60 ml	650 720	07	4550 5040 9590/-		
7	Turme ric	Nutrient managem ent	To Asses Turmeric special nutrient and rdf dose	T1- Farmers practice T2- Application of turmeric special micronutrient	IISR, Kozhik ode	Turmeric special micronutri ent	02kg	4500	07	9600/-	Avg yield, No of finger/rhizomes, C:B ratio	Mr. Shashank Date

				T3 - Spray of Boron, Fe & Zn two spray @ 25- day interval	TNAU, Coimb atore	Boron Fe Zn	800 gm each	2300				
8	Onion	Varietal evaluation	To asses Bhima Shakti & Bhima Kiran variety for superior yield quality & batter	T1 - Farmers practice T2 - Bhima Kiran variety of onion	DOGR, Rajgur unagar	Bhima Kiran onion variety	1kg	10500	07	21000/-	Avg yield, no of days to harvest, C:B ratio	Mr. Shashank Date
		wiltry 1 Low eggs Assess the	T3 - Bhima Shakti variety of onion	DOGR, Rajgur unagar	Bhima Shakti onion variety	1kg	10500					
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- Giriraja birds $T_3$ – Kaveri birds 1 month age	Central Poultry develo pment organis ation Odisha	Kaveri birds 1 month age	10	2000	11	22000	Avg. body weight gain Age at sexual maturity stage Avg Eggs prod	V.S. Janotkar
10	Feed and Fodder	Low yield and non- availability of green fodder during scarcity period	Evaluation of Hybrid napier variety of fodder CO5	$T_1$ – Farmers practice Cultivation of maize $T_2$ – Cultivation of CO4 T3 – Cultivation of CO5	TNAU, Coimb atore.	Thomb	250 sets	1000	11	11000	Avg Green fodder production Avg. Milk Production B:C Ratio	V.S. Janotkar
11	Cow Heifer	Failure of oestrous. Infertility. Low conceptio n 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 <sub>3</sub> + Deworming + Mineral mixture Inj.	MAFSU Nagpur	Inj.Vit.AD 3 Mineral mixture 50 gms Dewormer bolus 3 gm Ovisynch protocol	10	1000	10	10000	<ol> <li>Oestrous         Induction             response in             treated         </li> <li>Time required         for oestrous after             treatment         S. Conception             rate         </li> </ol>	

12	Maize	Low Productiv ity &High Labour cost of transplant ing	Enhancing productivity of Maize crop through use of BBF Planter for sowing	GnRh Inj PGF2 α and timely AI T1- Local practice (planting manually) T2 – BBF planter for sowing of Maize	Dr. PDKV Akola 2018	Inj, GnRh 5ml PgF2alpfa, Inj,GnRh 5 ml, Hiring charges of tractor and BBF Planter	0.4 ha per trial	1000/-	15	15000	Yield, qt/ha Net return, Rs/ha	N.P, Talokar V.G. Jadhao
13	Sorghu m	Low Productiv ity	Enhancing productivity of Sorghum crop through use of BBF Planter for sowing	T1 - Local practice (bullock drawn seeddrill) T2 - BBF planter for sowing of sorghum	Dr. PDKV Akola 2018	Hiring charges of tractor and BBF Planter	0.4 ha per trial	1000/-	15	15000	Yield, qt/ha Net return, Rs/ha	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
15	Mushr oom	Unawarene ss about chemical sterilization method	Assess the effect of straw sterilization practice on yield of oyster mushroom	T1: Boiling method T2: Chemical method (formalin & Bavistin)	Dr. PDKV Akola	Formalin, Bavistin		600/-	10	6000/-	Yield% Quality, Incubation period Labour, time saving	J.W. Bobde V.G. Jadhao
16	Milking stool and stand	Unaware ness about Drudgery reduction tools	Assess the effect of milking stool & stand for drudgery reduction	T1: Farmers practice T2: Use of Milking Stool	VNMKV Parbhani	Milking stool and stand		1000/-	07	7000/-	Time required Drudgery	J.W. Bobde V.G. Jadhao

#### **3.3. Frontline Demonstrations**

A. Details of FLDs to be organized -

Sl. No.	Сгор	Variety	Thematic area	Technology for demonstration	Critical inputs with cost (Rs.)	Season and year	Area (ha)	No. of farmers/	Parameters identified
110			ureu	ucinonstruction		und yeur	(IIII)	demon.	nuchtineu
1	Wheat	PDKV-Sardar	Variety	Variety PDKV-	Seed	Rabi 2021	10	25	Plant height
				Sardar	22000/-				No of tiller
									No of grains/
									panicle
									Yield(qt/ha)
2	Soybean	JS-335	IPM	Management of stem fly and girdle beetle in soybean	T1 (Farmers Practice)- 1 or 2 chemical pesticide sprays	Kharif- 2021	10	25	<ol> <li>Per cent stem</li> <li>fly incidence</li> <li>Girdle beetle</li> </ol>
					comprising of Profemonhos 50 EC 20				incidence per
					ml, Emamectin				3) yield $(kg/ha)$
					benzoate 5 SG @ 5 g per 10 lit water				4)B:C Ratio
					T2-(Recommended Technology)-Seed				
					treatment with				
					Thiamethoxam 30 FS @ 10 ml/kg seed				
					followed by ETL				
					based spray of				
					cholorantriniprole				
					lit water.				
					Total Rs.65550/-				
3	Piegaon pea	ICPL-87119	IDM	Management of	T1 (Farmers Practice)-	Kharif-	10.0	25	1) Disease
				wilt in pigeaon pea	No seed treatment	2021			Intensity (%)
				Treat the seed of	T2-(Recommended				2) Yield (kg/ha)
				combined product	the seed of pigeon pea				3) B:C Ratio

				of fungicide Carboxin 37.5% + Thiram 37.5% @ 3 g/kg followed by Trichodermavirde @ 10 g/ kg seed to reduce the wilt incidence and more monetary return	with combined product of fungicide Carboxin 37.5% + Thiram 37.5% @ 3 g/kg followed by Trichodermavirde @ 10 g/ kg seed to reduce the wilt incidence and more monetary return. Total cost Rs.9375/-				
4	Maize	PRO AGRO RIDER	IPM	Management of fall army worm in Maize	T1 (Farmers Practice)- 1 or 2 chemical pesticide sprays comprising of Chloropyriphos 20EC @ 20ml or Profenophos 50 EC 20 ml T2(Recommended Technology)-Use of pheromone traps @ 2 traps /acre for monitoring, seed treatment of cyantraniliprole 19.8% + thiamethoxam19.8% @ 4ml per kg seed ETL base spraying of Azadiraction 1500PPM @ 50ml per 10liter of water followed by ETL based spraying of Clorantriniliprole	Kharif- 2021	10	25	1) No of affected plants/mrl 2) yield (kg/ha) 3)B:C Ratio

					18.5% @ 3ml per 10 lit of water (Ministry of Agriculture& farmer welfare, GOI, New Delhi, circular dt 6 May2019and use of insecticides 28 may 2018) Total Rs.75000/-				
5	Turmeric	IISR Pragati	Varietal evaluation	IISR Pragati variety for demonstration	Turmeric Bulb 24500/-	Kharif- 2021	5.6	14	Yield/ha, crop duration, Finger/bunch, wt. of bunch, B:C ratio
6	Chilli	Teja 4	Bahar management	Spray of NAA @ 50ppm at 6,8 & 10 weeks after transplanting	NAA 50 ppm 10,500/-	Kharif- 2021	10	25	Yield/ha, crop duration, avg harvest/ plant, yield/plant, B:C ration
7	Custard apple	Balanagar	Bahar management	Pruning of plant 25% after 75 days of harvest	Pruning charges 21,000/-	Summer 2021	5.6	14	Yield/ha, crop duration, avg harvest/ plant, yield/plant, B:C ration

Sr. No	Crop	Variety	Season & Year	Area (ha)	No. of
					farmers
1	Greengram	BM2003-1	Kharif 2021	10	25
2	Blackgram	AKU10-1	Kharif 2021	10	25
3	Pigeonpea	BDN716	Kharif 2021	10	25
4	Chickpea	RVG202/	Rabi 2021	20	50
		Fule Vikram			
5	Linseed	PKV NL260	Rabi 2021	10	25
6	Mustard	TAM-108-1	Rabi 2021	10	25
7	Summer	TAG-24	Summer 2021	10	25
	Ground Nut				

#### Sponsored Demonstration (CFLDs on O & P/Others)

#### **B.** Extension and Training activities under FLDs

S.	Activity	No. of	Months	Number of
No.		activities		participants
1	Field days	10	Sept., Nov, Dec	570
2	Farmers Training	12	May. Sept, Oct	400
3	Media coverage	12	June, Oct, Nov	
4	Training for extension	6	June, Sept, Nov, Dec.	150
	functionaries			
5	Field visit	30	June, Sept, Nov, Dec.	150

# C. Details of FLD on Enterprises

#### a. Farm Implements

Name of	Crop	Season	No.	Area	Critical	Performance
rechnology		year	farm ers	(118)	inputs	indicators
Cotton Slasher	Cotton	Jan 21- Feb21	25	10	Cost of operation – 25000/-	Biomass incorporation t/ha Labor and cost saving
BBF Planter	Ground nut	Jan 21- Feb 21	25	10	Cost of operation – 25000/-	Yield and net return
Subsoiler	Cotton	Mar 21- June 21	15	06	Cost of operation – 15000/-	Yield, Stage-wise m.c.%
Deseeding machine	Custard apple	Sep 21- Oct 21	15	06	Cost of operation – 15000/-	Pulp recovery kg/hr, time and cost saving

# b. Livestock and Fisheries Enterprises

Enterprise	Breed	No. of	No. of	Critical inputs	Performance
		farmers	animals,		parameters /
			poultry birds		indicators
			etc.		
Goat	Local	10	50	Inj. Ivermectin	Av. Weight gain
					Health status
					Exam. Faecal sample
					before and after trail
Cattle	Local	10	20	Supply of	Av. Milk yield
				Silage bag	Health status
					Acceptability of feed for
					consumption
Cow	Local	12	20	Supply of CMT	Av. Milk Production
				reagent	Expenditure on
					treatment
					Incidence of mastitis

# 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	10	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			No. of	f Parti	cipan	ts	
	Courses	Others SC/ST					Grand	
		Μ	F	Т	Μ	F	Т	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	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	4	112	35	147	17	11	28	175
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	0	0	0	0	0	0	0	0
Production of low volume and high value	01	15	00	15	05	00	05	20
crops	01	15	00	15	05	00	05	20
Off-season vegetables	01	15	00	15	05	00	05	20
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	01	15	00	15	05	00	05	20
Net etc.)	01	15	00	15	05	00	05	20
b) Fruits								
Training and Pruning	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0
Cultivation of Fruit	01	15	00	15	05	00	05	20
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	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	0	0	0	0	0	0	0	0
Plants								
d) Plantation crops						[		

Production and Management technology								
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	00	15	05	00	05	20
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	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	15	3	18	1	1	2	20
Production and use of organic inputs	2	30	6	36	2	2	4	40
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	1	15	3	18	1	1	2	20
IV. Livestock Production and Management								
Dairy Management	02	25	03	28	02	0	02	30
Poultry Management	01	10	03	13	02	0	02	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	10	03	13	02	0	02	15
Feed management	02	30	0	30	10	0	10	40
Production of quality animal products	01	14	03	17	03	0	03	20
V. Home Science/Women empowerment								
Household food security by kitchen	0	0	0	0	0	0	0	0
gardening and nutrition gardening								
Design and development of low/minimum	0	0	0	0	0	0	0	0
cost diet								
Designing and development for high	0	0	0	0	0	0	0	0
nutrient efficiency diet								
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	0	0	0	0	0	0	0	0
Income generation activities for	02	00	30	30	00	10	10	40
empowerment of rural Women	02	00	50	50	00	10	10	-0
Location specific drudgery reduction	02	00	30	30	00	10	10	40
technologies	02	00	50	50	50	10	10	10
Rural Crafts	01	00	15	15	00	05	05	20
Women and child care	0	0	0	0	0	0	0	0
VI. Agril. Engineering								

Installation and maintenance of micro	0	0	0	0	0	0	0	0
irrigation systems	0	0					0	0
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	01	8	8	16	04	04	08	24
Small scale processing and value addition	01	8	8	16	04	04	08	24
Post-Harvest Technology	01	8	8	16	04	04	08	24
VII Plant Protection	01	0	0	10	04	04	00	27
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	0	0	0	0	0	0	0	0
pesticides	0	Ŭ	Ŭ	Ũ	Ŭ	Ŭ	Ŭ	Ũ
VIII. Fisheries								
Integrated fish farming	0	0	0	0	0	0	0	0
Carn breeding and batchery 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
Hotohory management and culture of	0	0	0	0	0	0	0	0
freshwater prowp	0	0	0	0	0	0	0	0
Preading and culture of ornemental fishes	0	0	0	0	0	0	0	0
Detable glastic com batchers	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	0	0	0	0	0	0	0	0
Bio-fertilizer production	0	0	0	0	0	0	0	0
Vermi-compost production	2	40	0	40	10	0	10	50
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								
Group dynamics	2	45	0	45	05	0	05	50
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	0		0					0
farmers/youths	2	45	0	45	05	0	05	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
XII. Others (Pl. Specify)	0	0	0	0	0	0	0	0
TOTAL	39	580	158	738	107	52	159	<b>897</b>
(B) RURAL YOUTH								
Mushroom Production	01	00	15	15	00	05	05	20
Bee-keeping	01	15	0	15	05	0	05	20
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	3	36	03	01	04	40
Integrated Farming (Medicinal)	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Vermi-culture (vermi compost production)	01	18	0	18	02	0	02	20
Sericulture	02	45	0	45	05	0	05	50
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	01	15	00	15	05	00	05	20
Repair and maintenance of farm machinery	0	0	0	0	0	0	0	0
and implements								
Nursery Management of Horticulture crops	0	0	0	0	0	0	0	0
Training and pruning of orchards	01	15	00	15	05	00	05	20
Value addition	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	02	27	0	27	03	0	03	30
Sheep and goat rearing	01	15	0	15	05	0	05	20
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	10	07	17	03	0	03	20
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
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
Pearl culture	0	0	0	0	0	0	0	0
Cold water fisheries	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	06	06	12	04	04	08	20
Post-Harvest Technology	0	0	0		0	0	0	0
Tailoring and Stitching	0	0	0	0	0		0	0
Kural Crafts	U 14	U 100	0	0	0	10	0	0
IUIAL	14	199	51	230	40	10	50	280

(C) Extension Personnel								
Productivity enhancement in field crops	01	30	05	35	05	01	06	41
Integrated Pest Management	02	240	40	280	40	20	60	340
Integrated Nutrient management	01	15	05	20	05	05	10	30
Rejuvenation of old orchards	01	15	05	20	05	05	10	30
Protected cultivation technology	01	15	05	20	05	05	10	30
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers organization	01	20	0	20	05	0	05	25
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	01	20	0	20	05	0	05	25
Care and maintenance of farm machinery	0	0	0	0	0	0	0	0
and implements								
WTO and IPR issues	01	20	0	20	05	0	05	25
Management in farm animals	0	0	0	0	0	0	0	0
Livestock feed and fodder production	01	15	0	15	03	0	03	18
Household food security	02	00	60	60	00	20	20	80
Women and Child care	01	00	30	30	00	10	10	40
Low cost and nutrient efficient diet	0	0	0	0	0	0	0	0
designing								
Production and use of organic inputs	1	14	2	16	3	1	4	20
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	1	15	2	17	2	1	3	20
TOTAL	15	419	154	573	83	68	151	724
G. Total	67	1183	343	1526	225	130	355	1881

# **B. OFF Campus**

CoursesCoursesCoursesSC/STGrand(A) Farmers & Farm WomenI. Crop ProductionWeed Management0000000Resource Conservation00000000Resource Conservation000000000Cropping Systems0000000000Crop Diversification0000000000Integrated Farming11531811220Water management000000000Seed production0000000000Integrated Crop Management0000000000Production of organic inputs00000000000I. Horticulture
MFTMFTTotal(A) Farmers & Farm WomenI. Crop ProductionWeed Management00000000Resource Conservation000000000Resource Conservation0000000000Cropping Systems0000000000Crop Diversification0000000000Integrated Farming11531811220Water management000000000Seed production0000000000Nursery management00000000000Integrated Crop Management00000000000Production of organic inputs000000000000Integrated Crops115001505000520
(A) Farmers & Farm Women         I. Crop Production         Weed Management       0
I. Crop Production           Weed Management         0         <
Weed Management         0
Resource Conservation         0
Technologies         Image: constraint of the systems
Cropping Systems         0
Crop Diversification00000000Integrated Farming11531811220Water management000000000Seed production000000000Nursery management000000000Integrated Crop Management000000000Fodder production0000000000Fodder production of organic inputs000000000 <b>II. Horticulture</b>
Integrated Farming       1       15       3       18       1       1       2       20         Water management       0       0       0       0       0       0       0       0       0       0         Seed production       0       0       0       0       0       0       0       0       0       0         Nursery management       0       0       0       0       0       0       0       0       0       0         Integrated Crop Management       0
Water management       0
Seed production         0
Nursery management         0
Integrated Crop Management       0
Fodder production       0
Production of organic inputs0000000II. Horticulturea) Vegetable CropsIIIIIProduction of low volume and high value grops0115001505000520
II. Horticulturea) Vegetable CropsProduction of low volume and high value crops0115001505000520
a) Vegetable CropsImage: Constraint of low volume and high value gropsImage: Constraint of low volume and log of lo
Production of low volume and high value crops0115001505000520
bigh value crops
Off-season vegetables         0
Nursery raising         0
Exotic vegetables like Broccoli000000
Export potential vegetables0000000
Grading and standardization0000000
Protective cultivation (Green0000000
Houses, Shade Net etc.)
b) Fruits
Training and Pruning         01         15         00         15         05         00         05         20
Layout and Management of0000000
Orchards
Cultivation of Fruit         01         15         00         15         05         00         05         20
Management of young000000
plants/orchards
Rejuvenation of old orchards000000 $D_{1}$ $D_{2}$ $D_{2}$ $D_{2}$ $D_{2}$ $D_{2}$ $D_{2}$ $D_{2}$
Export potential fruits $0  0  0  0  0  0  0$
Micro irrigation systems of 0 0 0 0 0 0 0 0
Orchards     0     0     0     0     0
Plant propagation techniques 0 0 0 0 0 0 0 0 0
U) Ul hamental Flams     0     0     0     0     0       Nursery Management     0     0     0     0     0     0
Management of potted plants 0 0 0 0 0 0 0 0 0 0
Wanagement of ponted plants     0     0     0     0     0     0       Export potential of ornamental     0     0     0     0     0     0     0
plants

Propagation techniques of	0	0	0	0	0	0	0	0
Ornamental Plants								
d) Plantation crops								
Production and Management	0	0	0	0	0	0	0	0
technology								
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops								
Production and Management	0	0	0	0	0	0	0	0
technology								
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices								
Production and Management	0	0	0	0	0	0	0	0
technology								
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	0	0	0	0	0	0	0	0
technology								
Post-harvest technology and	0	0	0	0	0	0	0	0
value addition								
III. Soil Health and Fertility Man	agement			•				
Soil fertility management	2	30	6	36	2	2	4	40
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	0	0	0	0	0	0	0	0
Production and use of organic	0	0	0	0	0	0	0	0
inputs								
Management of Problematic soils	1	15	3	18	1	1	2	20
Micro nutrient deficiency in	0	0	0	0	0	0	0	0
crops								
Nutrient Use Efficiency	0	0	0	0	0	0	0	0
Soil and Water Testing	0	0	0	0	0	0	0	0
<b>IV. Livestock Production and Ma</b>	nagement							
Dairy Management	0	0	0	0	0	0	0	0
Poultry Management	0	0	0	0	0	0	0	0
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management /goat	0	0	0	0	0	0	0	0
Disease Management	03	40	3	43	2	0	2	45
Feed management	02	30	0	30	5	0	5	35
Production of quality animal	0	0	0	0	0	0	0	0
products								
V. Home Science/Women empow	erment							
Household food security by								
kitchen gardening and nutrition	01	00	15	15	00	05	05	20
gardening								
Design and development of	0	0	0	0	0	0	0	0
low/minimum cost diet								

Designing and development for	0	0	0	0	0	0	0	0
high nutrient efficiency diet								
Minimization of nutrient loss in	01	00	15	15	00	05	05	20
processing	01	00	15	15	00	05	05	20
Gender mainstreaming through	0	0	0	0	0	0	0	0
SHGs								
Storage loss minimization	01	00	15	15	00	05	05	20
techniques			•			10	10	10
Value addition	02	00	30	30	00	10	10	40
Income generation activities for	01	00	15	15	00	05	05	20
empowerment of rural women								
Location specific drudgery	01	00	15	15	00	05	05	20
Purel Crofts	0	0	0	0	0	0	0	0
Women and shild care	0	0	0	0	0	0	0	0
	0	0	0	U	0	0	0	0
VI. Agrii. Engineering								
Installation and maintenance of	02	10	10	20	04	04	08	28
Incro infigation systems	0	0	0	0	0	0	0	0
bractices	0	0	0	0	0	0	0	0
Production of small tools and								
implements	01	06	06	12	04	04	08	20
Repair and maintenance of farm								
machinery and implements	02	10	10	20	06	06	12	32
Small scale processing and value	0	0	0	0	0	0	0	0
addition	Ũ	0	Ũ	Ũ	Ũ	Ũ	Ũ	0
Post-Harvest Technology	0	0	0	0	0	0	0	0
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	02	0	0	0	0	0	0	-+0
and his 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	0	0	0	0	0	0	0	0
management	0	Ŭ	Ŭ	Ŭ	Ū	Ŭ	Ŭ	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
of freshwater prawn								
Breeding and culture of	0	0	0	0	0	0	0	0
ornamental fishes								
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	0	0	0	0	0	0	0	0
addition								
IX. Production of Inputs at site		1	n	1	n		1	
Seed Production	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
(Horti.)								
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	02	45	0	45	05	0	05	50
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	0	0	0	0	0	0	0	0
wax sheets								
Small tools and implements	0	0	0	0	0	0	0	0
Production of livestock feed and	0	0	0	0	0	0	0	0
fodder								
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	0	0	0	0	0	0	0	0
SHGs (HS)								
Mobilization of social capital	0	0	0	0	0	0	0	0
Entrepreneurial development of	02	15	0	15	05	0	05	50
farmers/youths	02	43	0	43	05	0	05	30
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	36	435	146	581	66	53	119	700

Thematic Area	No. of			No. of	f Parti	cipants	5	
	Courses		Others	5		SC/ST	-	Grand
		Μ	F	Т	Μ	F	Т	Total
(A) Farmers & Farm Women								
I. Crop Production	1		1		1	1	1	
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	1	15	3	18	1	1	2	20
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	4	112	35	147	17	11	28	175
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	01	15	00	15	05	00	05	20
value crops	01	15	00	15	05	00	05	20
Off-season vegetables	01	15	00	15	05	00	05	20
Nursery raising	0	0	0	0	0	0	0	0
Exotic vegetables	0	0	0	0	0	0	0	0
Export potential vegetables	01	15	00	15	05	00	05	20
Grading and standardization	0	0	0	0	0	0	0	0
Protective cultivation (Green Houses, Shade Net etc.)	01	15	00	15	05	00	05	20
b) Fruits								
Training and Pruning	0	0	0	0	0	0	0	0
Layout and Management of Orchards	0	0	0	0	0	0	0	0
Cultivation of Fruit	03	45	00	45	15	00	15	60
Management of young plants/orchards	0	0	0	0	0	0	0	0
Rejuvenation of old orchards	01	15	00	15	05	00	05	20
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	0	0	0	0	0	0	0	0
Plants								

# C. Consolidated table (ON and OFF Campus)

d) Plantation crops								
Production and Management	0	0	0	0	0	0	0	0
technology								
Processing and value addition	0	0	0	0	0	0	0	0
e) Tuber crops								
Production and Management	01	15	00	15	05	00	05	20
technology	01	15	00	15	05	00	05	20
Processing and value addition	0	0	0	0	0	0	0	0
f) Spices								
Production and Management	01	15	00	15	05	00	05	20
technology	01	15	00	15	05	00	05	20
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	0	0	0	0	0	0	0	0
technology								
Post-harvest technology and value	0	0	0	0	0	0	0	0
addition								
III. Soil Health and Fertility Managem	ent							
Soil fertility management	2	30	6	36	2	2	4	40
Soil and Water Conservation	0	0	0	0	0	0	0	0
Integrated Nutrient Management	1	15	3	18	1	1	2	20
Production and use of organic inputs	2	30	6	36	2	2	4	40
Management of Problematic soils	1	15	3	18	1	1	2	20
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	1	15	3	18	1	1	2	20
IV. Livestock Production and Manager	nent							
Dairy Management	02	25	03	28	02	0	02	30
Poultry Management	01	10	03	13	02	0	02	15
Piggery Management	0	0	0	0	0	0	0	0
Rabbit Management/goat	0	0	0	0	0	0	0	0
Disease Management	04	50	06	56	04	0	04	60
Feed management	04	60	0	60	15	0	15	75
Production of quality animal products	01	14	03	17	03	0	03	20
V. Home Science/Women empowermer	nt	J				1		
Household food security by kitchen	0.1	00	1.5	1.5	00	0.5	0.5	20
gardening and nutrition gardening	01	00	15	15	00	05	05	20
Design and development of	0	0	0	0	0	0	0	0
low/minimum cost diet								
Designing and development for high	0	0	0	0	0	0	0	0
nutrient efficiency diet								
Minimization of nutrient loss in	01	00	15	15	00	05	05	20
processing	01	00	15	15	00	05	05	20
Gender mainstreaming through SHGs	0	0	0	0	0	0	0	0
Storage loss minimization techniques	01	00	15	15	00	05	05	20
Value addition	04	00	60	60	00	20	20	80
Income generation activities for	03	00	45	45	00	15	15	60

empowerment of rural Women								
Location specific drudgery reduction	0.2		20	20	0.0	10	10	10
technologies	02	00	30	30	00	10	10	40
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	2	10	10	20	4	4	8	28
irrigation systems	-	10	10	20			Ũ	20
Use of Plastics in farming practices	0	0	0	0	0	0	0	0
Production of small tools and	1	6	6	12	4	4	8	20
implements								
Repair and maintenance of farm	1	8	8	16	4	4	8	24
machinery and implements			_	-			_	
Small scale processing and value	3	18	18	36	10	10	20	56
addition								
Post-Harvest Technology	1	8	8	16	4	4	8	24
VII. Plant Protection					l			
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	0	0	0	0	0	0	0	0
pesticides								
VIII. Fisheries					•			
Integrated fish farming	0	0	0	0	0	0	0	0
Carp breeding and hatchery	0	0	0	0	0	0	0	0
management								
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	0	0	0	0	0	0	0	0
freshwater prawn								
Breeding and culture of ornamental	0	0	0	0	0	0	0	0
fishes								
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	0	0	0	0	0	0	0	0
Bio-fertilizer production	1	14	2	16	3	1	4	20
Vermi-compost production	04	85	0	85	15	0	15	100
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	0	0	0	0	0	0	0	0
sheets								
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 Dyna	mics							
Leadership development								
Group dynamics	02	45	0	45	05	0	05	50
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	04	90	0	90	10	0	10	100
farmers/youths	07	70	0	70	10	0	10	100
WTO and IPR issues								
XI. Agro-forestry	1	1				-		
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	75	1015	304	1319	173	105	278	1597
(B) RURAL YOUTH								
Mushroom Production	01	00	15	15	00	05	05	20
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	3	36	03	01	04	40
Integrated Farming	0	0	0	0	0	0	0	0
Planting material production	0	0	0	0	0	0	0	0
Vermi-culture (vermi compost	01	10	0	10	02	0	02	20
production)	01	18	0	18	02	0	02	20
Sericulture	02	45	0	45	05	0	05	50
Protected cultivation of vegetable crops	0	0	0	0	0	0	0	0
Commercial fruit production	01	15	00	15	05	00	05	20
Repair and maintenance of farm	0	0	0	0	0	0	0	0
machinery and implements								
Nursery Management of Horticulture	0	0	0	0	0	0	0	0
crops								
Training and pruning of orchards	01	15	00	15	05	00	05	20
Value addition	0	0	0	0	0	0	0	0
Production of quality animal products	0	0	0	0	0	0	0	0
Dairying	02	27	0	27	03	0	03	30
Sheep and goat rearing	01	15	0	15	05	0	05	20
Poultry production	01	10	07	17	03	0	03	20
Ornamental fisheries	0	0	0	0	0	0	0	0
Para vets	0	0	0	0	0	0	0	0
Para extension workers	0	0	0	0	0	0	0	0
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	06	06	12	04	04	08	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	184	31	215	35	10	45	260
(C) Extension Personnel								
Productivity enhancement in field crops	01	30	05	35	05	01	06	41
Integrated Pest Management	02	240	40	280	40	20	60	340
Integrated Nutrient management	01	15	05	20	05	05	10	30
Rejuvenation of old orchards	01	15	05	20	05	05	10	30
Protected cultivation technology	01	15	05	20	05	05	10	30
Formation and Management of SHGs	0	0	0	0	0	0	0	0
Group Dynamics and farmers	01	20	0	20	05	0	05	25
organization								
Information networking among farmers	0	0	0	0	0	0	0	0
Capacity building for ICT application	01	20	0	20	05	0	05	25
Care and maintenance of farm machinery and implements	0	0	0	0	0	0	0	0
WTO and IPR issues	01	20	0	20	05	0	05	25
Management in farm animals								
Livestock feed and fodder production	01	15	0	15	03	0	03	18
Household food security	02	00	60	60	00	20	20	80
Women and Child care	01	00	30	30	00	10	10	40
Low cost and nutrient efficient diet	0	0	0	0	0	0	0	0
designing								
Production and use of organic inputs	1	14	2	16	3	1	4	20
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	1	15	2	17	2	1	3	20
Total	15	419	154	573	83	68	151	724
G. TOTAL	103	1618	489	2107	291	183	474	2581

Details of training programmes attached in Annexure -I

Nature of Extension	No. of	Farmers			Extension Officials			Total		
Activity	activities	Male	Female	Total	Male	Female	Total	Male	Female	Total
Field Day	13	502	128	630	18	12	30	520	140	660
Kisan Mela	02	155	20	175	20	05	25	175	25	200
Kisan Goshti	02	25	05	30	02	02	04	27	07	34
Exhibition	01	760	190	950	40	10	50	800	200	1000
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	02	155	20	175	20	05	25	175	25	200
Group meetings	10	190	45	235	10	05	15	200	50	250
Lectures delivered as	42	1882	172	2054	81	26	107	1883	198	2181
resource persons										
Newspaper coverage	50									
Radio talks	6									
TV talks	12									
Popular articles	22									
Extension Literature	15									
Advisory Services	36									
Scientific visit to farmers field	50	415	35	450	35	15	50	450	50	500
Farmers visit to KVK	150	4800	950	5750	200	50	250	5000	1000	6000
Diagnostic visits	30	130	05	135	20	05	25	150	10	160
Exposure visits	03	45	10	55	05	0	05	50	10	60
Ex-trainees Sammelan	02	60	20	80	05	02	07	65	22	87
Soil health Camp	2	75	25	100	4	1	5	79	26	105

# **3.5 Extension Activities (including activities of FLD programmes)**

Animal Health Camp	08	162	12	184	05	-	05	167	12	179
Agri mobile clinic										
Soil test campaigns	1	80	20	100	3	1	4	83	21	104
Farm Science Club Conveners meet										
Self Help Group Conveners meetings	5	0	75	75	0	5	5	0	80	80
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	170	5	2	7	135	32	167
World Women Day	4	70	90	160	10	05	15	80	95	175
World Food Day										
Kisan Diwas										
Kisan Mahila Diwas										
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	480	10743	2067	12830	537	174	711	11200	2241	13441

# **3.6. Target for Production and supply of Technological products**

### Seed Material

Sl. No.	Сгор	Variety	Quantity (qt)
Cereals	Wheat	PDKV-Sardar	10
Oilseeds	Soybean	Fule Kimya, AMS-1001	30
DI	Pigeon pea	BDN-716, Vipula	20
Pulses	Chickpea	Fule Vikram, RVG-202	20
G. ·	Turmeric	IISR- Pragati	10
Spices		PDKV Waigaon	10
	Azolla culture		1.50
Otners	Grass roots slips	CO-4, CO-5, Yashwant	2000 sets

### **Planting Materials**

Sl. No.	Сгор	Variety	Quantity (Nos.)
	Custard-apple	Balanagar	15000
		Phule - Janki	100
Fruits	Kagzi-lime	Pramalini	5000
	Mandarin	Nagpur santra	1000
	Guava	L-49	1000
Vegetables	Chilli, Brinjal, Tomato	Teja-4, Mahyco-11,	15000
v egetables		Arka Rakshak	

#### **Bio-products**

Sl. No.	Product Name	Species	Quantity	
			kg	Lit
Vermicompost	Compost	Eisenia fetida	4000	
Azolla	Azolla culture	Pinnata	95	

#### Livestock

Sl. No.	Туре	Breed	Quantity (nos)
Poultry	Broiler	Vencob	1600
	Layer	Giriraja, Kaveri	100

Crop / Commodity	Name of the product	Quantity to be prepared (kg or litre)	Sale value (Rs)
Fruit crops – Aonla	Aonla fruit candy	10 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
Spices and condiments	Turmeric	10 kg	3000
	Total	555	45800

#### Value Added Products

#### 3.7. Action plan for management of KVK instructional farm

Total land with KVK: 20.59 haCultivable 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	Variety	Date of	Date of	Expected
		(ha)		sowing / Planting	harvest	yield (q)
1	Crops			Tianting		
1	Cotton	3.0	AKA & Ajoot	Juna 21	Oct 21	60
	Collon	5.0	155	Julie 21	001.21	00
	Maize	4.0	Dhanya 8255	June 21	Nov. 21	200
			Dhanya 879			
	Sorghum	0.40	CSH-14, CSH-	June 21	Sept.21	15
	_		17		-	
	Greengram	0.40	BM 2003-2	June 21	Sept.21	3
	Blackgram	0.40	TAU-1, AKU	June 21	Sept.21	3
			10-1		-	
	Wheat	1.0	AKAW4210-6	Nov.21	Mar.22	35
2	Fruit crops					
	<b>Custard-apple</b>	0.40	Phule Janki	Jun-2019		00
		0.63	Balanagar	Jun-2006	Oct.21	100
		0.40	Arka Sahan	Jun-2006	Oct.21	50
	Mandarin	0.43	Nagpur santra	Jun-2006 /	Feb- 22	145
				Jun 2020		00
	Sweet orange	0.31	Nucellar	Jun-2006 /	Sept- 21	200
				Jun 2020		00
	Guava	0.50	L-49	Jun-2006 /	Nov-21	150
				Jun 2020		

3	Vegetable					
	crops					
4	Seed					
	production					
	Soybean	2.0	Fule Kimya	June 21	Oct.21	30
			AMS-1001			
	Redgram	2.0	BDN-716,	June 21	Dec. 21	20
			Vipula			
	Bengalgram	1.0	Fule Vikram,	Oct.21	Feb.22	20
-			RVG-202			
5	Fodder crops					
	Fodder crop	0.40	CO4, CO5	Jul 21	Oct 21	4
6	Technology					
	cafeteria					
	Soybean	0.40	Fule Kimya	June 21	Oct. 21	
			AMS-1001,			
			MAUS-71, JS-			
			335, JS-			
			9305, MACS-			
			1188, NRC-127			
	Greengram		BM 2003-2,	June 21	Sept.21	
			AKM-9911,			
			AKM-8828			
	Blackgram		TAU-1, AKU	June 21	Sept.21	
			10-1, AKU-15			
	Bengalgram		Fule Vikram,	Oct.21	Feb.22	
			RVG-202,			
			JAKI-9218,			
			PDKV Kanchan			
	Wheat		PDKV- Sardar,	Nov-21	Mar-22	
			AKW-4627,			
			AKAW-1071			
			PDKV-Washim,			
			Trimbak			
	Linseed		NL-260, Local	Nov. 21	Mar. 22	
	Mustard		Pusa Bold	Oct. 21	Feb. 22	
7	Nutritional					
	Garden					
	Spinach, Potato	0.10		Oct. 21	Jan 22	
	Coriander,					
	Okra, Brinja,					
	Fenugreek,					
	Chilli, Tomato,					
	Cucurbits,					
	Pumpkin,					
	Radish, Carrot					

#### 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	Goatary	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.	Торіс	Number
1	Research papers	04
2	Technical reports	02
3	News letters	02
4	Training manuals	02
5	Popular articles	12
6	Extension literature	10
7	E-publication	01
	Total	30

#### **B.** Details of Electronic Media to be produced

S. No.	Type of media (CD / VCD /DVD /Audio-Cassette) andvideo 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	1500
5	Twitter Account	KVK Buldana-I @BuldanaI	01

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-21
2	Organic farming under RKVY	Aug 21
3	Dal Mill	Nov. 21
4	Protected cultivation of Vegetables & Vegetable nursery	Dec. 21

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

#### 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. Dhanora Jangam, Tq: Nandura (year 2019-20)

b. Wadgaon wan, Tq: Sangrampur (year 2019-20)

- 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
- Name of the technologies found suitable by the farmers of the adopted villages: Integrated Nutrient Management, Integrated Pest Management, Use of biofertilizer, 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	Collaboration in implementation of training, demonstrations,
	(ATMA)	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	Joint Implementation of Soil Analysis
	Testing Office Buldana	
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.
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	Technical backstopping
	Mandal, Karmala, Dist Solapur	
	NGO)	
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,	Technical support
	Asalgaon	
24	Krushi va Gramin Prashikshan	Technical support
	Sanstha, Talni	
25	Sadhna Shikshan Mandal,	Technical support, students project formulation
	Shegaon	

#### 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 2021, 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	2	1480000/-	S.A. Borde
2	Department of Agriculture PoCRA	Training cum Demo. On use of BBF Planter	30	105000/-	N.P. Talokar S.A.Borde V.G. Jadhao

3	PKVY	Model Organic	Training-2	375000/-	S.M.Umale
		Demonstration	Exposure Visit		V G Jadhao
			DBT to Farmers		V.O.Jadilao
			Certification		
			packing		
4	NIPHM,	Certificate	Two batches of	608000/-	A.T.Gabhane
	Hyderabad	Course on	40 candidates		V.C. Jadhao
		Insecticide	each (12 days)		v.O. Jaunao
		Management	_		

#### 6.5.1. Details of activities planned in Doubling Farmers' Income (DFI) villages

Name of DFI village selected	Total No. of families in the village	Interventions planned during 2021	No. of families to be covered under the intervention	Present annual income of the family (Rs /annum)	Expected annual income of the family after intervention (Rs/ annum)
Dhanora Jangam	137	Improved varieties, INM, IPM, Subsidiary business, On farm	85	Rs. 45000/-	Rs. 65000/-
Charban	81	production of Biofertilizer & Biopesticides, Vermicomposting, Nutrition Garden'	45	Rs. 35000/-	Rs. 55000/-

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

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

#### 6.5.3. Details of activities planned under Paramaparagat Krishi Vikas Yojana (PKVY)

S. No.	Name of the village	Activities planned	No. of families to be covered
1	Garpeth	Model Organic Demonstration	21

# 6.5.4. Details of skill trainings planned (sponsored by ASCI)

S. No.	Name of Job Role	Duration (No. of hours)	No. of participants
1	Nursery Grower	200	25

#### 6.5.5. Details of activities planned under TSP - NA

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

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

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

#### 6.5.7. 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)
			Total	

#### 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	500	Agriculture Service Provider	Training and Technical Support

	Tq: Sangrampur Dist: Buldana			
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

# 6.7. Activities planned in respect of developing Integrated Farming System (IFS) Models on farmers' fields during 2021

S. No	Name of the village	No. of IFS models to be identified / developed	Major components of IFS model
1	Hiwarkhed, Tq: Khamgaon	01	Horticulture, Animal, Farm pond
2	Yeulkhed, Tq: Shegaon	01	Horticulture, Animal, Farm pond

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

S.	Name of the	Type of convergence	Area (ha) / No. of farmers to
No.	department / Agency		be benefited
1	BAIF	Demonstration	325
2	CARE	Demonstration	110

#### 8. Innovator Farmer's Meet 2021

Sl. No.	Particulars	Details	Expected No. of participants
1	Farm innovators meet planned	Oct. 2021	40

#### 9. Utilization of hostel facilities

S. No.	Month	No. of days utilized
1	January	20
2	February	10
3	March	450
4	April	300
5	May	400
6	June	300
7	July	400
8	August	400
9	September	500
10	October	450
11	November	400
12	December	350
	Total	3980

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

# **10. Details of online activities planned (If any)**

# 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	AICRP on utilization of animal energy	AICRP, VNMKV, Parbhani	VNMKV, Parbhani	2018-19	Demonstration Trainings
2	Agriculture resilience Linking Insurance & Technology with Climate Adopted Farming System (SDC)	ICRISAT Hyderabad	ICRISAT Hyderabad	2019-20	Demonstration Observations Technical backstopping

# **Training Programme**

# i) Farmers & Farm women (On Campus)

Date Client		Title of the training	Durati on in	N pa	umber rticipa	of nts	N	umber SC/ST	of	G. Tot
Dutt	ele	programme	days	M	F	T	Μ	F	Т	al
Crop Pro	duction									
June	PF	Improved Production	1	46	13	59	9	7	16	75
		Technology of major pulses								
Sept	PF	Improved Production	1	17	5	22	2	1	3	25
		Technology of Linseed and								
-	22	Mustard			10			-		-
Oct.	PF	Improved Production	1	32	12	44	4	2	6	50
N	DE	Technology of Bengalgram	1	17	~	- 22	2	1	2	25
Nov.	PF	Improved Production	1	1/	5	22	2	1	3	25
Howtigult		Technology of wheat								
Horticult		Ultra density orchard	01	15	00	15	05	00	05	20
Julle	ГГ	plantation preparation for site	01	15	00	15	05	00	05	20
Iuly	PF	Management of Mrig Bahar in	01	15	00	15	05	00	05	20
July	11	crop	01	15	00	15	05	00	05	20
August	PF	Pre-mansoon vegetable	01	15	00	15	05	00	05	20
		production, scope for new								
		farmers								
Sept	PF	Integrated crop management in	01	15	00	15	05	00	05	20
		Chilli								
Livestock	prod.		0.1	[			-		_	•
Jan	PF	Importance of silage making	01	15	0	15	5	0	5	20
		for dairy animals during								
		scarecity period								
Feb	PF	Importance of Mineral mixture	01	15	0	15	0	0	0	15
		in dairy animals								
April	PF	Care and management during	01	10	3	13	2	0	2	15
		summer season								
March	PF/	Backyard poultry farming	01	10	3	13	2	0	2	15
	FW			10						
August	RY	Clean milk production	01	15	0	15	0	0	0	15
Sept	PF	Heat detection and new	01	12	03	15	03	0	03	18
•		technique for anoestrous								
		problem & artificial								
		incomination								
		Insemination					-			
Oct	PF	Various Contagious disease &	01	10	3	13	2	0	2	15
		their control in dairy animals								
Agril. Eng	zg.	·	•							
Mar	PF	Repair and maintenance of	1	8	8	16	4	4	8	24
		farm tractor and implements.								
Dec	PF	Dal mill enterprising	1	8	8	16	04	04	08	24

Oct	PF	Post-harvest technologies for	01	8	8	16	4	4	8	24
		agriculture produce								
Home Sc.										
Feb	PF	Mushroom cultivation	01	02	13	15	02	03	05	20
Apr	PF	Technique of preparation of	02	05	10	15	00	05	05	20
		Phenyl and soap making								
May	PF	Use of small agricultural	01	03	02	15	02	03	05	20
		implement for drudgery								
		reduction of farm women								
Nov	PF	Preparation of custard apple	02	05	10	15	00	05	05	20
		products								
Dec	PF	Technique for Aonla value	02	00	15	15	00	05	05	20
		added products								
Plant Pro	tection	•								
Jan /Feb	PF	IPM in onion	01	18	0	18	02	0	02	20
April	PF	IPM in cotton	01	18	0	18	02	0	02	20
/May										
	PF	Integrated disease	01	18	0	18	02	0	02	20
July/Aug		management in pulses								
	PF	Bio control management of	01	18	0	18	02	0	02	20
Aug/Sept	DE	pest & diseases								
<b>F</b> -4	PF Education									
Extension	DE	00 Vermicempost Production	02	40	0	40	10	0	10	50
Jan./ Apr Ech /	PF DE	Group Dynamics	02	40	0	40	10	0	10	50
May	L L.	Group Dynamics	02	45	0	43	05	0	05	50
May /	PF	Entrepreneurship development	02	45	0	45	05	0	05	50
June			02		Ŭ		00	Ŭ	00	00
Fisheries		•								
Soil Healt	h	•								
Feb	PF	Importance of Soil Testing	1	15	3	18	1	1	2	20
Apr	PF	Integrated Nutrients	1	15	3	18	1	1	2	20
		Management of Major Kharif								
		Сгор								
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

	Client	Title of the training	Durati	Number of		of	N	G.		
Date	Client	The of the training	on in	pa	rticipa	nts		SC/ST	<b>,</b>	Tot
	ele	programme	days	Μ	F	Т	Μ	F	Т	al
Crop Pro	duction									
Horticult	ure									
Oct.	PF	Plantation of marigold,	01	15	00	15	05	00	05	20
		Chrysanthemum & improved								
		package of practices								
Nov	PF	Crop Diversification of	01	15	00	15	05	00	05	20
		Ajwain, Fennel over								
		Agronomical crops								
Dec	PF	Kagzi-lime, cash fruit crop for	01	15	00	15	05	00	05	20
		small farmers of Buldana								
		district								
Jan	PF	Nursery management in	01	15	00	15	05	00	05	20
		Vegetable crops								
Feb	PF	Effect of cold waves on	01	15	00	15	05	00	05	20
		banana cultivation								
March	PF	Post-harvest technology in	01	15	00	15	05	00	05	20
		Turmeric & Ginger								
Jan	PF	Improved package of	01	15	00	15	05	00	05	20
		practices in Watermelon								
		cultivation								
Feb	PF	Water management in high-	01	15	00	15	05	00	05	20
		value crops at scarcity time								
Livestock	prod.		T			-				
May	PF	Fodder cultivation and	01	15	0	15	0	0	0	15
		conservation								
June	PF	Technique to control endo /	01	10	3	13	2	0	2	15
		ecto parasitic infestation								
July	PF	Care and management of	01	15	0	15	0	0	0	15
		metabolic diseases in dairy								
		animals								
August	PF	Various contagious diseases	01	15	0	15	0	0	0	15
		and their control								
Dec	PF	Importance of silage making	01	15	0	15	5	0	5	20
		for dairy animals during								
		scarcity period								
Agril. Eng	gg.		1	1			1			
Nov.	PF	Processing and value addition	01	05	05	10	03	03	06	16
		in custard apple								
Dec	PF	Oilseed processing for	01	05	05	10	03	03	06	16
-		entrepreneurship								
June	PF	Micro irrigation operation and	01	04	04	08	02	02	04	12
<b>T</b> 1	DE	maintenance	01	0.5	0.5	10	02	02	0.4	1.5
Jul	PF	Fertigation for effective use of	01	06	06	12	02	02	04	16
	DE	micro irrigation unit	1			10	4	4	0	20
Oct	PF	Small tools and implements		6	6	12	4	4	8	20
	1	production	1	1	1	1	1	1	1	1

# ii) Farmers & Farm women (Off Campus)

Home Sc.										
Mar	PF	Preparation Neemboli Ark and	01	0	15	15	0	5	5	20
		Neem products								
Apr	PF	Safe storage technique of food	01	0	15	15	0	5	5	20
1		grain								
May	PF	Technique preparation of	01	0	15	15	0	5	5	20
1.1.1.1		dashparni ark and jiyamrut	01	Ŭ	10	10	Ũ	c	C C	
Iune	PF	House hold food security by	01	0	15	15	0	5	5	20
June		kitchen gardening	01	Ŭ	10	10	Ŭ	5	5	20
Sept.	PF	Technique of preparation	02	0	15	15	0	5	5	20
1		aonla value added products								
Oct.	PF	Cooking method	01	0	15	15	0	5	5	20
Plant Pro	tection									
March	PF	Integrated pest and disease	01	18	0	18	02	0	02	20
/April		management in watermelon								
April /	PF	Integrated pest management	01	18	0	18	02	0	02	20
May		for pink bollworm in cotton								
May	PF	Integrated pest management in	01	18	0	18	02	0	02	20
/June		cotton								
July	PF	Integrated pest management in	01	18	0	18	02	0	02	20
		soybean								
Oct/sept	PF	Integrated pest management in	01	18	0	18	02	0	02	20
-		red gram								
Sept/Nov	PF	Safe use of pesticides	01	18	0	18	02	0	02	20
July/	PF	FAW management in maize	01	18	0	18	02	0	02	20
Aug										
Sept/	PF	Integrated pest disease	01	18	0	18	02	0	02	20
Nov		management in bengalgram								
Extension	Educati	on		1.5		4.5	05	0	07	50
Jul / Aug	PF	Vermi compost production	02	45	0	45	05	0	05	50
Setp/ Oct	PF	Entrepreneurship development	02	45	0	45	05	0	05	50
ristiertes										
 Soil Hoelt	 h									
Mar	PF	Management of Problematic	1	15	3	18	1	1	2	20
17101		soil	1		5	10	T	1	-	20
Apr	PF	Importance of Organic carbon	1	15	3	18	1	1	2	20
Dec	PF	Crop residue management	1	15	3	18	1	1	2	20

Crop /	Identified	Training title*	Month	Durati	No. of		of	2	SC/ST	Γ	G.
Enterpr	Thrust Area			on	Pa	rticij	pants	par	ticipa	ints	Total
ise				(days)	Μ	F	Т	Μ	F	Т	
Biofertil	Production of	On farm Production of	May	04	14	2	16	3	1	4	20
izer and	Inputs at site	Biofertilizer and									
Biopesti		Biopesticide									
cide											
vermico	Production of	Vermicompost	May	04	18	0	18	02	0	02	20
mpost	organic inputs	production									
biopesti	Production of	Production of	June	04	18	0	18	02	0	02	20
cide	biopesticide	biopesticide									
Protected	Protected	Protected cultivation of	Oct	05	20	05	25	05	01	06	31
cultivatio	cultivation	vegetable crops									
n	cultivation	vegetable crops									
Poultry	Poultry farming	Poultry farming – A	Oct	05	10	07	17	03	0	03	20
Tourity	roundy furthing	subsidiary business									
Goat	Goat farming	Goat farming for meat	Dec	05	15	0	15	05	0	05	20
Gout	Gout luilling	purpose									
Cattle	Dairy Farming	Dairy farming	Aug	05	12	0	12	03	0	03	15
	Small scale	Employment of rural	Mar	04	06	06	12	04	04	08	20
Dal Mill	processing	youth in small scale									
	processing	enterprises dal mill									
Income	Income	Paper Bag Making &	KVK	04	00	15	15	00	05	05	20
generati	generating	cocoon value addition									
ng	activity										
activity											
				40	11	35	14	27	11	38	186
					3		8				

# ii) Vocational training programmes for Rural Youth

# iii) Training Programme for extension functionaries

Date	Clientele	Title of the training	Durat	No. of			Nu	mber	of	G.
		Programme	ion in	participants			S	C/ST		Total
			days	Μ	F	Т	Μ	F	Τ	
On Cam	pus									
June 21	EF	Seed Production Technique	01	15	2	17	2	1	3	20
Sept 21	EF	Improved cultivation of Mustard and Linseed	01	15	2	17	2	1	3	20
May 21	EF	On farm Production of Biofertilizer and Biopesticide	01	14	2	16	3	1	4	20
July 21	EF	Integrated pest management in cotton, soybean, Maize and kharif pulses	01	120	20	140	20	10	3 0	170
Oct 21	EF	Integrated pest management in redgram, Maize and bengalgram.	01	120	20	140	20	10	3 0	170
May - 21	EF	Improved cultivation of Custard apple	01	30	05	35	05	04	0 9	44
Dec- 21	EF	Exotic vegetable crop cultivation	01	30	05	35	05	04	0 9	44
Oct 21	EF	Various fodder production technique like azolla, hydroponics	01	15	0	15	03	0	0 3	18
May 21	EF	Farm Mechanization in Agriculture	01	30	05	35	05	01	0 6	41
Mar 21	EF	Capacity building for ICT	01	20	0	20	05	0	0 5	25
Oct 21	EF	WTO and IPR issue	01	20	0	20	05	0	0 5	25

# iv) Sponsored Programme

Discipli	Sponsoring	Client	Title of the	No. of	No. of			Nu	G.		
ne	agency	ele	training	cours	par	participants			SC/S	Т	Tot
			programme	es					al		
					Μ	F	Т	Μ	F	Т	
a) Sponsored training Programme											
Agril	PoCRA	PF	Training and	30	450	15	465	130	02	132	597
Engg			Method								
			demonstration of								
			BBF Planter								
Agril.	ATMA	PF	INM in cotton	25	800	100	900	80	20	100	1000
Extn											
Agril.	ATMA	PF	INM in soybean	25	800	100	900	80	20	100	1000
Extn											
Agril.	ATMA	PF	INM in	25	800	100	900	80	20	100	1000
Extn			bengalgram								
			Total								
b) Spon	sored research	n prograi	mme								
			Total								
c) Any s	special progra	mmes									
			Total								

# Annexure - II

# Details of Budget Estimate (2021-22) based on proposed action plan (Rs. in Lakhs)

S. No.	Particulars	proposed BE 2021-22
1	Recurring Contingencies	
1.1	Pay & Allowances	150.00
1.2	Traveling allowances	2.00
1.3	Contingencies	
А	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)	4.00
В	POL, repair of vehicles, tractor and equipment's	
D	Meals/refreshment for trainees (ceiling up to Rs.150/day/trainee be maintained)	
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)	
Е	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)	8.00
G	Training of extension functionaries	
Н	Maintenance of buildings	
Ι	Establishment of Soil, Plant & Water Testing Laboratory	
J	Library	
	TOTAL Recurring Contingencies	164.00
2	Non-Recurring Contingencies	
2.1	Works	25.00
2.2	Equipment's including SWTL & Furniture	10.00
2.3	Vehicle (Four-wheeler/Two-wheeler, please specify)	
2.4	Library (Purchase of assets like books & journals)	0.25
	TOTAL Non-Recurring Contingencies	35.25
3	REVOLVING FUND	
	GRAND TOTAL	199.25