



सत्यमेव जयते

GOVERNMENT OF MAHARASHTRA

PERFORMANCE BUDGET

2022-2023

1

AGRICULTURE

GOVERNMENT PRESS, KOLHAPUR

2022

PERFORMANCE BUDGET

2022-2023

Agriculture, Animal Husbandry, Dairy Development & Fisheries Department

1

Agriculture

No. of Performance Budget	Name of Performance Budget
1.	Agriculture, Animal-Dairy & Fisheries Dept. (Agri.)
2.	Agriculture, Animal-Dairy & Fisheries Dept. (Animal Husbandry)
3.	Agriculture, Animal-Dairy & Fisheries Dept. (Dairy Development)
4.	Agriculture, Animal-Dairy & Fisheries Dept. (Fisheries)
5.	Agriculture, Animal-Dairy & Fisheries Dept. (Horticulture)

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Introduction

Agriculture and allied activities sector has always remained a focal point of economy as well as social system. Over the decades, majority of the state population is dependent on the sector for livelihood. Agriculture sector is always vulnerable to challenges posed by climatic changes and degradation of productive land. Erratic rains, high input costs, market uncertainties, changing weather conditions, etc. are the main concerns of the agriculture sector in the State.

Agriculture department is established with object of increasing standard of living of farmers in the State. Afterwards reformation in the department were organised as per developments took place in the agriculture sector. Agriculture extension and training branch for dissemination of Agriculture Technology, Soil and water conservation branch for management of natural resources, Horticulture branch for Horticulture development, Inputs and quality control branch for availability of quality seeds and inputs to the farmers. Agriculture processing branch for Agriculture processing and encouragement of Agriculture export, Statistics branches for Agriculture statistics information compilation were started. National Horticulture Mission was started for development in Horticulture sector. Small farmers Agri-business consortium was established for Agriculture trade and Guidance to value added projects and financial management guidance to farmers.

Various schemes are implemented to increase the production and productivity of various crops with the help of improved technology dissemination developed by agriculture universities. In this main emphasis is given on crop planning as per geographical situation, use of improved varieties, required measures for soil health, balanced use of fertilizer as per soil pH Biological control of insects and pest, use of drip and sprinkler irrigation, seed treatment. Efforts are made for seed production programme and various training programmes and farmers field schools (FFS) for technology transfer at local level. Soil health card distribution, a flagship programme is implemented for soil nutrients availability information to the farmers. The biological laboratories are established for making available bio-fertilizer and bio-pesticide to the farmers in the state. Mechanization is encouraged for making the farming business profitable. National food security

mission is being implemented for increasing production and productivity of cereals, pulses, oilseeds, sugarcane and cotton.

To increase involvement of women in the Agriculture the women beneficiaries are included in the various schemes on priority basis. In addition to this women are included in various programmes like farmers training, Crop demonstrations for increasing production, farmers study tour, Women having extra ordinary work are honoured by giving Jijamata Krishi Bhushan award by the Agriculture department.

Special State schemes are implemented to uplift the life of schedule cast and scheduled tribes above poverty line. In addition to this, they are benefited in other individual beneficiary schemes in proportion of available resources.

2. Agriculture Policy Vision

In Maharashtra the livelihood of most of people is related with Agriculture field. Agriculture is the main source of food grain and employment agriculture policy. To make farmers capable and self sufficient and to increase production & productivity pertaining to improve financial capacity of farmers such action plan adopted.

Targets

1. Efficient use of Natural resources for increase the GDP.
2. To make the farmers self sufficient.
3. Efficient use of limited water resources in the state.
4. To distribute the inputs on timely for production.
5. Supply sufficient and timely credit.
6. Encouragement to Natural and organic farming.
7. Implementation of watershed Management programme and Dry land Agriculture technology.
8. To generate employment by soil conservation and fruit cultivation.
9. Transfer the Research work of Agriculture Universities to the Common Farmers.
10. Encouragement of Crop insurance scheme.
11. Creation of skilled and unskilled employment generation in the farming.

12. Increase of women contribution in the field of agriculture.

13. Focus on the development of Agriculture of tribal backward and small/marginal farmers.

14. Implementation of Road, Telecommunication and information technology for the farmers.

15. Development of basic facilities post harvest technology storage transport, processing management for reasonable price.

16. Improvement of the working and Rules of agriculture produce committee.

17. Security of foodgrains and improvement of the quality of nutrients.

Special Programme

Taking into consideration the nutritional principles of nutri-cereals in the human diet, the Central Government has taken a strategic decision to implement the year 2018-19 and 2019-20 as a "Nutri Cereal Year". The meeting of the Central Government was held at New Delhi on 05-02-2018 to enhance the production and productivity of cereal crops. Accordingly, the previous National Food Security Mission-Coarse cereals have been launched by separate campaigns for the National Food Security Mission-Coarse cereals (Maize) and National Food Security Mission-Nutri Cereal (Jowar, Bajra and Ragi) crops.

These include crop demonstrations, certified seed distribution, certified seed production, Integrated Nutrients and pest management, as well as agricultural tools/Implements under Flexi components, farmers training, and processing units for value addition, workshops and publicity publications. It includes a

total of 26 districts (including Thane Palghar) for Nutri cereals and 07 districts under coarse cereals (maize) crops. In this regard, awareness about nutritional nutrients is being done at district and state level through health and other departments.

Doubling the farmers income

The measures for doubling the farmers income of state government upto 2022.

Background

The farming in Maharashtra is mainly dry farming so that crop productivity is affected by the irregular rainfall which ultimately affects the income of farmers. Since 2011, upto 2013-14 hail storm, flood and natural calamities are continuously affecting the yield. Under Such circumstances the Govt. of Maharashtra has planned the measures for doubling the farmers income. For doubling the farmers income main factor is rainfall and reduction in the cost of cultivation.

Targets

1. Productivity enhancement
 2. Reducing the cost of cultivation
 3. Water conservation for soil moisture security (More crop per drop)
 4. Risk mitigation
 5. Integrated farming policy
 6. Post harvest technology for value addition
 7. Promote Group farming
 8. Promoting export of Agril. produce
 9. Development of value addition chain
-

Introduction :**Rainfed Area Development (RAD)****Under National Mission For Sustainable Agriculture (NMSA)**

Rainfed Area Development is one of the four components under National Mission For Sustainable Agriculture (NMSA) which is being implemented from the year 2014-15 in the State. This component mainly aimed at improving agricultural productivity of rainfed areas in a sustainable manner by adopting appropriate farming system based approaches and dissemination of climate resilient technology. This component includes two sub components *viz.* Integrated farming system and value addition & farm development activities.

Crop Pest Surveillance & Advisory Project (CROPSAP)

The Cash crop like Cotton and Sugarcane, Cereal crop like Paddy Sorghum and Maize, Oilseed crop like Soybean and Pulses like Pigeonpea and Gram are economically important for the farmers. The outbreak of pest & disease causing crop damage and result in loss of production and financial loss of the farmers. To avoid such losses, Government of Maharashtra undertaken Crop Pest Surveillance & Advisory Project (CROPSAP). In this project, based on survey, crop pest advisories are sent to farmers through the SMS. Mass awareness is created about pest infestation and their control measures thereby enhancing production by avoiding economical losses.

Agriculture University

The Agricultural University has various level of agricultural education facilities. In addition to this, agricultural universities are working on research of useful agro-technology. The propagation of this technology is communicated to the farmers through the Agricultural Department. To ensure that the farmers will use this technology for the sake of pursuing and recommending the research issues, various programmes are undertaken by the Department of Agriculture, whereby input and agricultural related services will be made available to the farmers as per their requirement.

Out of the total 308 lakh hectare geographical area in the state of Maharashtra, about net cultivation area is 194.34 hectare and gross cropped area is 228.13 lakh hectare. There is widespread disparity between land and weather in different parts of the state. About 1/3 of the area is under the drought affected area. As a result, there is a significant variation in agricultural income every year. About 2/3 of the total area under the crop in the state of Maharashtra is under kharif season and the remaining area is under rabi season and the minor area is under summer season.

National Food Security Mission (Oilseed and Oil Palm) NFSM (OS & OP)

Government of India has launched National Mission on Oilseed and Oil Palm (NMOOP) in year 2014-15. National Mission on Oilseed and Oil Palm (NMOOP) is in year 2018-19 merged with NFSM (Oilseed and Oil palm).

Under this Mission Three missions are implemented given below,

1) Mission-1 NFSM (Oilseed) 3) TRFA (Oilseed) mission IV

2) Mission-3 NFSM (Tree Borne Oilseed *i.e.* TBOs) are implemented in Maharashtra with the Central: State sharing pattern 60:40.

Objectives of the Mission :

Government of India has set the main objective of the Mission to enhance area and productivity of oilseed crops to attain self-sufficiency in edible oil production.

District Covered :

Districts with more area but low productivity compared to state average and districts with less area but high productivity are selected in the Mission.

Sr. No.	Mission-1 NFSM (Oilseed)		Mission-3 NFSM (Tree Borne Oilseed)	
	Crops	Districts	Crops	Districts
1	Soyabean	Ahemadnagar, Beed, Latur, Osmanabad, Nanded, Hingoli, Buldhana, Akola, Amaravati, Washim, Yevotmal, Wardha, Nagpur, Chandrapur (14)	Karanj	Thane, Palghar, Raigad, Ratnagiri, Nadurbar (5)
2	Groundnut	Nashik, Dhule, Pune, Sangli (4).	Kokam	Raigad, Ratnagiri, Sindhudurg (3)
3	Safflower	Ahemadnagar, Beed, Osmanabad, Parbhani (4).	Mahua	Thane, Palghar, Raigad, Ratnagiri, Nadurbar (5)

Mission-4 (TRFA Oilseed) Thane, Ratnagiri, Sindudurg, Bhandara, Gondia, Gadchiroli

Components of the Mission :

Following components are incorporated in the Mission:

Mission-1 NFSM (Oilseed) :

- 1) Seed Components : Purchase of breeder seed, Production of foundation/Certified seed, Distribution of certified seeds.
- 2) Transfer of technology : Crop demonstrations, farmer training, Officer training, farmer field school.
- 3) Production of Inputs : Distribution of Gypsum/Pyrites/liming/dolomite/SSP, etc, Supply of Rhizbium/PSB, Supply of PP Chemicals including weedicide & Micronutrients etc, NPV, Supply of Improved farm implements, Pipes,
- 4) Flexi Funds : Farm Ponds, Construction of Godown and Diesel and Electric Pump sets distribution, Oil extractor.
- 5) Project Management Expenses

Mission-3 NFSM (Tree Borne Oilseed) :

- 1) Area Expansions inputs : Inegrated development of Nurseries & Plantation
- 2) Training : Farmer/Officers/Extension/Workers/Input dealer training
- 3) Flexi Funds : Farm Ponds, Pump sets distribution

Mission 4 : TRFA (Oilseed) : 1) Crop demonstration (Safflower, Linseed, Sesame, Groundnut), 2) INM, 3) Agriculture Mechanization, 4) Trainings

Financial Status :

Sr. No.	Mini Mission	2019-20			2020-21			2021-22		
		Sanction Programme	Available Grants	Expd.	Sanction Programme	Available Grants	Expd.	Sanction Programme	Available Grants	Dec. 21
1	Mission I (Oilseed)	5160.18	4663.528	2793.41	4583.96	4453.50	3028.60	6984.07	1388.03	1280.72
2	Mission III (TBo's)	112.68	71.26	38.00	11.11	11.11	11.09	78.784	18.32	6.93
3	Mission IV (TRFA Oilseed)	108.71	89.83	80.00	116.67	97.59	83.81	116.67	..	..
Total		5380.57	4824.62	2911.417	4711.74	4562.20	3123.50	7179.52	1406.38	1287.65

National Food Security Mission (Oilseeds) under NFSM (OS & OP) 2020-21
Final Progress Report by March, 2021 end

State : Maharashtra

(Rs. in Lakh)

Sr.	Components No.	Unit	Rate of Assistance	AAP approved by GoI		AAP Approved by GoM		Achievement by March, 21 end	
				Physical	Financial	Physical	Financial	Physical	Financial
I. SEED Components (30%)									
1.	Purchase of Breeder Seed	Qtls.	Actual Cost	559	65.00	330	38.76	332	38.79
2.	Production of Foundation Seed	Qtls.	Rs. 2500/-	4895	122.38	7636	187.37	8232	192.06
3.	Production of Certified Seed	Qtls.	Rs. 2500/-	28000	700.00	24998	624.93	23735	559.96
4.	Distribution of Certified Seeds	}	..	..	..	..	..	..	..
Total of Seed Components (I)			..	..	1747.38	..	851.06	..	790.81
II. TOT Programmes (27%)									
Cluster Demonstration									
6.	ii) Soybean	Ha.	Rs. 6000/-	24200	1452.00	..	..	1702	89.46
6.	iii) Sesame	Ha.	Rs. 3000/-	125	3.75	3680	153.16	..	..
..	vii) Safflower	Ha.	Rs. 3000/-	800	24.00	..	..	2200	37.36
..	ix) Linseed	Ha.	Rs. 3000/-	340	10.20	..	..	..	..
8.	IPM Demonstration-FFS	Nos.	Rs. 26700/-	258	68.89	..	..	..	..
9.	Farmers Training	Nos.	Rs. 24000/-	160	38.40	..	..	..	..
10.	Officers Training	Nos.	Rs. 36000/-	38	13.68	..	..	..	..
Total of TOT Programmes (II)			..	..	1610.92	..	153.16	..	126.82
III. Production Input (30%)									
11.	Dist. of Gypsum/Pyrites/ Lime/SSP. etc.	Ha.	Rs. 750/-	14000	105.00	..	..	..	..
12.	Supply of Rhizobium/PSB/ ZSB/Azatobactor/Mycorrhiza culture	Ha.	Rs. 300/-	19000	57.00	..	..	..	..
13.	PP Chemicals/ Insecticides/ bio pesticides/ weedicides/ bio agents/ micronutrients etc.	Ha.	Rs. 500/-	20000	100.00	..	..	..	..
14.	Nuclear Polyhedrosis Virus (NPV)	Ha.	Rs. 500/-	10000	50.00	..	..	..	..
15. Distribution of Plant Protection Equipment									
Supply of Improved Farm Implements									
16.	a) Manual operated	Nos.	Rs. 10000/-	250	25.00	..	..	..	..
16.	b) Tractor drawn implements	Nos.	Rs. 75000/-	1300	975.00	1260	945.00	577	224.80
18.	Pipes for carrying water from source to the field	Meter	Rs. 50/- to Rs. 20/-	950000	475.00	950000	475.00	65750	34.88
Total of Production Inputs (III).			..	..	1787.00	..	1420.00	..	259.68

**National Food Security Mission (Oilseeds) under NFSM (OS & OP) 2020-21
Final Progress Report by March, 2021 end**

State : Maharashtra

(Rs. in Lakh)

Sr. No.	Components	Unit	Rate of Assistance	AAP approved by GoI		AAP Approved by GoM		Achievement by March, 21 end	
				Physical	Financial	Physical	Financial	Physical	Financial
IV. Flexi Funds (10%)									
ii)	Diesel/Electric Pump sets	Nos.	Rs. 10000/Set	1570	157.00	1570	157.00	53	4.81
iii)	Farm Pond (20x20x3) (30x30x3)	Nos.	Farm pond on Demand	418	201.75	198	99.00	21	10.22
vii)	Construction of Godown	Nos.	Rs. 12.50 lakh/ 250 M.T. Godown	19	237.50	..	..	..	..
Total of Flexi fund (IV)			..	..	596.25	..	256.00	..	15.03
V. Project Management Expenses (3%)									
i)	State level Pulses	Nos.	As per NFSM	4	22.00	40	114.82	31	84.37
ii)	District level Pulses	Nos.	As per NFSM	38	137.94	..	..	..	..
iii)	Hiring of vehicle/ Monitoring of Scheme	Nos.	Rs. 0.50 lakh/ Dist.	19	8.55	..	..	..	..
iv)	Contingency Dist.	Nos.	Rs. 1.60 lakh/ Dist.	20	10.42	20	9.42	..	6.98
Total of Project Management Expenses (V)			..	..	178.91	..	124.24	..	91.35
AAP for TBOs programme			..	..	96.39	..	..	..	..
AAP for 2020-21 (I to V)			..	..	6016.85	..	2804.45	..	1283.69
VI. Pending liability of 2019-20 (mission I and III)									
i)	Form AAP 2020-21 Funds	As mention in AAP		..	386.21	..	386.21	..	1756.00
ii)	From 2019-20 U.B.	..		..	..	..	1404.41	..	..
Total Pending Liabilities			..	..	386.21	..	1790.62	..	1756.00
Grand Total (Inclusive of liabilities)			..	..	6403.06	..	4595.07	..	3039.69
Central Share			..	..	3867.82	..	2765.67	..	1838.70
State Share			..	..	2535.24	..	1829.39	..	1201.00

Annexure-III
Final Annual Report by March 2021 for TRFA-Oilseeds Programme
under NFSM (OS & OP) 2020-21

State : Maharashtra				(Rs. in Lakh)			
Sr. No.	Intervention	Approved rate of assistance	Unit	Approved AAP		Achievement	
				Physical	Financial	Physical	Financial
A) Regular Programme of 2020-21							
1. Cluster demonstration							
a)	Linseed	Rs. 3000/ha	Ha.	284	8.520	70	2.10
b)	Safflower	Rs. 3000/ha	Ha.	100	3.000	300	7.68
c)	Sesamum	Rs. 3000/ha	Ha.	100	3.000	..	..
d)	Groundnut	Rs. 10,000/ha	Ha.	600	60.000	530	43.76
Total I		..	..	1084	74.520	900	53.54
2. Integrated Nutrient Management							
a)	Micronutrients	Rs. 500/ ha	Ha.	350	1.750	150	0.08
b)	Bio-pesticides	Rs. 500/ ha	Ha.	436	2.180	150	0.11
Total II		..	..	..	3.930	..	0.18
3. Farm Machinery							
ii) Tractor drawn implements		..	..	..	..	..	..
a)	Seed drill	As per SMAM Norm	Nos.	5	1.000	..	..
b)	Rotavator	..	Nos.	8	3.600	..	..
Total 3		..	..	..	4.600	..	..
4. Trainings							
i)	Training of Farmers	Rs. 0.24 lakh/Trg.	Nos.	17	4.080	19	3.080
ii)	Training of Officers	Rs. 0.36 lakh/Trg.	Nos.	4	1.440	3	1.080
Total 4		..	..	..	5.520	..	4.160
Total regular programme (A)		..	..	..	88.570	..	57.878
B	Pending liabilities (Cluster Demonstration : Groundnut)	..	..	..	28.097	..	25.931
Grant Total (A to B)		..	..	..	116.667	..	83.809
Go I Share		..	..	..	70.000	..	50.285
Go M Share		..	..	..	46.667	..	33.524

Annexure-1
National Food Security Mission (Oilseeds) under NFSM (SO & OP) Year 2021-22
Monthly Progress Report December, 2021

State : Maharashtra

(Rs. in Lakh)

Sr. No.	Item/Component	Unit	Approved AAP		Achievement		Expenditure as per physical Achievement
			Physical	Financial	Physical	Financial	
I. SEED Components (30%)							
1.	Purchase of Breeder Seed rates	Qtls.	645	48.89	353	..	42.62
2.	Production of Foundation Seed	Qtls.	6400	160.00	9773	..	244.33
3.	Production of Certified Seed	Qtls.	55360	1384.00	52088	..	1302.21
4.	Distribution of Certified Seed	Qtls.	42000	504.00	27216	134.90	326.59
Total of Seed Components--I			..	2096.89	..	134.90	1915.74
II. Transfer of Technology (27%)							
Cluster Demonstration							
	i) Groundnut	Ha.	593	59.30	..	..	..
5.	ii) Soybean	Ha.	28200	1692.00	28181	792.39	1674.00
	iii) Sesame	Ha.	251	7.53	60	0.20	1.80
	iv) Safflower	Ha.	1000	30.00	1430	2.58	42.90
	v) Linseed	Ha.	100	3.00	30	..	0.90
Total Cluster Demonstration II--5			30144	1791.83	29701	795.17	1719.60
6.	IPM Demonstration-FFS	..	304	42.56	282	9.13	39.48
7.	Farmers Training		154	36.96	114	2.53	27.36
8.	Officers Training		38	13.68	19	0.69	6.84
Total of TOT Programmes--II			..	1885.03	..	807.51	1793.28
III. Production Input (30%)							
9.	Distribution of Gypsum/Pyrites/liming/SSP. etc.	Ha.	14000	105.00	2519	0.40	18.89
10.	Supply of Rhizobium/PSB/Azatobactor/Mycorrhiza culture	Ha.	20000	60.00	4518.11	3.63	13.55
11.	PP Chemicals/Insecticides/bio pesticides/weedicides/bio agents/Micronutrients etc.	Ha. Ha.	23000	115.00	18098	14.03	90.49
12.	Nuclear Polyhedrosis Virus (NPV)	Ha.	12500	62.50	404	1.00	2.02
Supply of Improved farm implements							
13.	a) Manual Operated	Nos.	275	27.50	2	..	0.20
	b) Tractor drawn implement	Nos.	1566	1174.50	486	196.80	242.75
14.	Pipes for carrying water from sources to the field	Meter	1099988	549.99	69953	21.43	34.98
Total of Production Inputs--III			..	2094.49	..	237.29	402.89

State : Maharashtra

(Rs. in Lakh)

Sr. No.	Item/Component	Unit	Approved AAP		Achievement		Expenditure as per physical Achievement
			Physical	Financial	Physical	Financial	
IV. Flexi Funds (10%)							
15.	Small Oil Extration Unit		19	34.20	..	..	..
16.	Diesel/Electric pump sets	Nos.	2315	231.50	146	13.91	14.60
17.	Farm Ponds (20x20x3)	Nos.	390	195.00	3	0.85	1.50
18.	Construction of Godown	..	19	237.50	1	6.41	6.41
Total of Flexi Fund--IV			..	698.2	150	21.17	22.51
V. Project Management Expenses (3%)							
19.	State level / District	Nos.	42	159.94	37	71.31	71.31
20.	Hiring of vehicle/Monitoring	Nos.	20	30.52	..	2.91	2.91
21.	Contingency	..	..	..	..	5.64	5.64
Total Project Management Exp. V			..	209.46	36	79.86	79.86
Grand Total (I+II+III+IV+V)			..	6984.07	..	1280.73	4214.28
Central Share			..	4210.00	..	768.43	2545.61
State Share			..	2774.07	..	512.30	1668.67

Annexure-II
National Food Security Mission (TBO) under NFSM (SO & OP) Year 2021-22
Monthly Progress Report December, 2021

State : Maharashtra

(Rs. in Lakh)

Sr. No.	Item/Component	Unit	Approved AAP		Achievement		Expenditure as per physical Achievement
			Physical	Financial	Physical	Financial	
I. Area Expansions inputs							
1.1 Integrated development of Nurseries & Plantation							
a)	Karanj	Ha.	75	15.00	3	..	0.60
b)	Kokum	Ha.	180	27.00	60	4.44	9.07
c)	Mahua	Ha.	50	7.50	15	0.54	2.25
Total (1.1)		Ha.	305	49.50	78	4.98	11.92
1.2 Maintenance of TBOs Plantation Jojoba, Jatropha, Olive from 2nd year of Plantation till gestation							
	Karanj	Ha.	102	2.04	..	..	0.80
a)	Kokum	Ha.	700	13.99	99.43	0.80	1.19
	Mahua	Ha.	63	1.25	15	0.08	0.30
Total (1.2)		..	865	17.28	114.43	0.88	2.29
Total (1.1 + 1.2)		..	..	66.78	192.43	5.86	14.20
3rd Year (2018-19)							
II. Transfer of Technology							
a)	Farmers training	Nos.	6	1.44	3	0.48	0.72
b)	Training of extension/ workers/officers/ input dealer	Nos.	1	0.36	1	..	0.36
Total II			7	1.8	4	0.48	1.08
III. Project Management Expenses			..	2	..	..	..
IV. Flexi Funds			..	7.906	..	0.59	0.59
Grand Total				78.484	..	6.93	15.87
Central Share			..	47.088	..	4.16	9.52
State Share			..	31.396	..	2.77	6.35

Annexure-III
TRFA (Oilseed) under NFSM (SO & OP) Year 2021-22
Monthly Progress Report December, 2021

State : Maharashtra

(Rs. in Lakh)

Sr. No.	Item/Component	Unit	Physical		Financial		Expenditure as per physical Achievement
			Target	Achivvement	Target	Achivvement	
I. Cluster demonstration							
a)	Mustard	Rs.3000/Ha.	80	..	2.4	..	..
b)	Linseed	Rs.3000/Ha.	600	..	18	..	..
c)	Safflower	Rs.3000/Ha.	350	920	10.5	..	27.60
d)	Groundnut	Rs.10000/Ha.	672	25	67.2	..	2.5
Total (I.1)		..	1702	945	98.1	..	30.10
II. Integrated Nutrient Management							
i)	Micronutrients	Rs.500/Ha.	370	321	1.85	..	1.61
ii)	Bio-pesticides	Rs.500/Ha.	420	359	2.1	..	1.80
Total II		..	790	680	3.95	..	3.40
III. Water Saving Devices							
i)	Water carrying Pipes	As per NFSM	3500	..	1.75	..	..
Total III			3500	..	1.75	..	..
IV. Farm Machinery							
a)	Seed drill	AS SMAM	2	..	0.4	..	..
b)	Rotavator		12	..	5.4	..	..
Total IV		..	14	..	5.8	..	..
V. Trainings							
i)	Training of Farmers	Rs.0.24 lakh/Trg.	25	23	5.99	..	3.22
ii)	Training of Officers	Rs.0.36 lakh/Trg.	3	2	1.08	..	0.72
Total V		..	28	25	7.07	..	3.94
Grand Total (I to V)			..	..	116.67	..	37.44
Central Share			..	..	70.00	..	22.46
GoM Share			..	..	46.67	..	14.98

Paddy Seed Chain Development Programme Under - RKVY 2020-21

National food security mission (Paddy) is implemented in eight districts. Instead of these districts, Paddy Chain Development Programme under RKVY 2020-21 is being implemented in another nine districts. These districts are Thane, Palghar, Raigad, Ratnagiri, Sindhudurg, Kolhapur, Sangli, Ahmednagar & Nandurbar. Eventhough the average productivity of these nine districts is higher than state average, there is further scope to increase productivity also mostly after paddy, in these districts, no other crop is taken. In these districts if paddy demonstration and after that pulses demonstrations are implemented, increased productivity is achieved and also farmers get additional income from pulses and also improvement in soil health. In this programme Distribution of certified seed, Demonstration, Seed Production, FFS being implemented on project base in above nine districts.

Objectives :-

- 1) To increase area under paddy & productivity of paddy.
 - 2) To increase area under paddy by using varieties having high quality proteins.
-

Paddy Seed Chain Development Programme Progress Report 2020-21

(Rs. In Lakhs)

Sl. No.	District	Seed Distribution																			
		Below 10 Years						Above 10 Years						hybrid seed						Total	
		Target		Achievement		Target		Achievement		Target		Achievement		Target		Achievement		Target		Achievement	
Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
1.	Thane	210	4,200	71.75	1,435	90	0,900	20.00	0,200	9.00	0,900	..	..	309	6,000	91.75	1,635			
2.	Palghar	310	6,200	280.00	5,600	130	1,300	90.00	0,900	13.00	1,300	..	..	453	8,800	370.00	6,500			
3.	Raigad	440	8,800	814	16,280	190	1,900	190.00	1,900	19.00	1,900	..	..	649	12,600	1004.00	18,180			
4.	Ratnagiri	270	5,400	31.00	0,620	120	1,200	19.00	0,190	12.00	1,200	1.00	0,100	402	7,800	51.00	0,910				
5.	Sindhudurg	270	5,400	..	..	120	1,200	..	..	12.00	1,200	..	..	402	7,800	..	..		
	Total Thane	1500	30,000	11.97	23,935	650	6,500	319	3,190	65	6,500	1.00	0,100	2215	43,000	1517	27,225				
6.	Nandurbar	80	1,600	..	..	40	0,400	5.00	0,050	3.00	0,300	..	..	123	2,300	5.00	0,050			
	Total Nashik	80	1,600	..	..	40	0,400	5	0,050	3	0,300	..	..	123	2,300	5	0,050			
7.	Ahmednagar	40	0,800	..	..	20	0,200	..	..	2.00	0,200	..	..	62	1,200	..	..		
	Total Pune	40	0,800	..	..	20	0,200	..	..	2	0,200	..	..	62	1,200	..	..		
8.	Sangli	60	1,200	..	..	30	0,300	..	..	3.00	0,300	..	..	93	1,800	..	..		
9.	Kolhapur	420	8,400	..	..	160	1,600	..	..	17.00	1,700	..	..	597	11,700	..	..		
	Total Kolhapur	480	9,600	..	..	190	1,900	..	..	20	2,000	..	..	690	13,500	..	..		
10.	Reg. Agri. Res. station, Karjat	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11.	Agri. Res. Station Shirgaon, Ratnagiri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	KKV Dapoli	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total Programme	2100	42,000	1197	23,935	900	9,000	324	3,240	90	9,000	1	0,100	3090	60,000	1521.75	27,275				
	Commissionerate Level	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Paddy Seed Chain Development Programme Progress Report 2020-21

(Rs. In Lakhs)

Sr. No.	District	Seed Distribution												Total Financial											
		Demonstration						FFS						Fish Farming		Total Financial									
		19	20	21	22	23	24	25	26	27	28	29	30	31	32	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.		
1.	Thane	240	2.400	225.35	2.254	60	5.400	210.00	5.372	15	2.100	15.00	2.100	15.900	11.360										
2.	Palghar	340	3.400	..	..	80	7.200	80.00	4.658	17	2.380	17.00	2.380	21.780	13.538										
3.	Raigad	500	5.000	..	..	115	10.350	115.00	10.344	29	4.060	29.00	4.060	32.010	32.5844										
4.	Ratnagiri	310	3.100	303.00	3.030	65	5.850	65.00	5.540	18	2.520	18.00	2.520	19.270	12.000										
5.	Sindhudurg	310	3.100	..	..	80	7.200	135.00	10.480	18	2.520	18.00	2.520	20.620	13.000										
	Total Thane	1700	17.000	528	5.284	400	36.000	605	36.394	97	13.580	97	13.580	109.580	82.482										
6.	Nandurbar	90	0.900	..	..	20	1.800	20.00	0.935	2	0.280	2.00	0.280	5.280	1.265										
	Total Nashik	90	0.900	..	..	20	1.800	20	0.935	2	0.280	2	0.280	5.280	1.265										
7.	Ahmednagar	50	0.500	..	..	10	0.900	10.00	0.900	2	0.280	2.00	0.280	2.880	1.180										
	Total Pune	50	0.500	..	..	10	0.900	10	0.900	2	0.280	2	0.280	2.880	1.180										
8.	Sangli	70	0.700	..	..	20	1.800	..	..	2	0.280	1.00	0.140	4.580	0.140										
9.	Kolhapur	490	4.900	293.05	2.931	120	10.800	120.00	10.567	21	2.940	21.00	2.130	30.340	15.627										
	Total Kolhapur	560	5.600	293.05	2.931	140	12.600	120.00	10.567	23	3.220	22	2.270	34.920	15.727										
10.	Reg. Agri. Res. station, Karjat	300	3.000	222	2.220	15	1.350	..	..	1	0.140	..	..	4.490	2.220										
11.	Agri. Res. Station Shirgaon, Ratnagiri	300	3.000	190	1.896	15	1.350	15.00	1.350	1	0.140	1.00	0.140	4.490	3.386										
	KKV Dapoli	600	6.000	412	4.116	30	2.700	15	1.350	2	0.280	1	0.140	8.980	5.603										
	Total Programme	3000	30.000	1233	12.330	600	54.000	770	50.145	126	17.640	124	16.550	161.640	106.301										
	Commissionerate Level	..	..	..	..	..	..	..	..	..	..	..	..	1.630	0.952										
	Total	..	..	..	..	..	..	..	..	..	..	..	..	163.270	107.253										

Paddy Seed Chain Development Programme Annual Action Plan 2021-22

(Rs. In Lakhs)

Sr. No.	District	Seed Distribution														Total Financial	
		Below 10 Yr:		Above 10 Yr:		Hybrid Seed		Total		Seed Production		Demonstration		FFS		Target	Financial
		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.		
3	4	5	6	7	8	9	10	11	12	13	14	17					
1.	Thane	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2.	Palghar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3.	Raigad	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4.	Ratnagiri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5.	Sindhudurg	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total Thane	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6.	Nandurbar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total Nashik	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7.	Ahmednagar	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total Pune	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8.	Sangli	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9.	Kolhapur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total Kolhapur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10.	Regional Agri. Res. Station, Karjat	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11.	Agriculture Res. Station, Shirgaon, Ratnagiri	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total Programme	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Commissionerate Level	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

NFSM-CC-Cotton Development Programme 2021-22

National Food Security Mission-Commercial crops : This scheme was implemented since 2014-15. During 2021-22 an administrative approval to the programme of Rs. 467.00 lakhs was given by Government. The main components of the scheme are Front line Demonstration on intercropping, Trails on high Density Planting System, Front line Demonstration Integrated Crop management, Distribution of Plant Protection Chemicals & Bio agents, distribution of cotton shredders.

Objective of the scheme—

- To promote cotton based farming system with emphasis on intercropping.
- Increase production and productivity of cotton by promoting INM, IPM high density planting system in desi/straight cotton.
- To provide effective plant protection components.

Districts Covered - Buldhana, Akola, Washim, Amaravati, Yavatmal, Wardha, Nagpur, Chandrapur, Dhule, Jalgaon, Aurangabad, Jalna, Beed, Nanded, Parbhani, Ahmednagar.

COTTON DEVELOPMENT PROGRAMME UNDER NFSM - 2021-22

(Rs. In lakh)

Sr. No.	Particulars	Unit	Rate of Assistance (Rs.)	Physical		Financial	
				Target	Expected Achievement	Target	Expected Achievement
1.	Front line Demonstration Integrated Crop management (ICM)	ha.	8000/ha.	680	680	54.40	54.40
2.	Front line Demonstration on intercropping (Mung, Udid)	ha.	8000/ha.	540	540	43.20	43.20
3.	Trails on high Density Planting System	ha.	10000/ha.	300	300	30.00	30.00
4.	Distribution of Plant Protection Chemicals & Bio agents	ha.	50% of Actual Exp. max. Rs. 500/-	47500	47500	237.50	237.50
5.	State level Training @ 40000/- (per batch of 20 officers/staff)	Nos.	40000/ Training	3	3	1.20	1.20
6.	Local initiatives : cotton shredders	Nos	**	110	110	98.00	98.00
7.	Front line demonstration on Deshi and ELS cotton seed Production	ha.	9000/ha.	30	30	2.70	2.70
Total		..	..	..	..	467.00	467.00

** For SC, ST, Women Rs. 1.00 Lakh or 50% of cost for General Category Rs. 0.80 lakh or 40% of cost whichever is less.

COTTON DEVELOPMENT PROGRAMME UNDER NFSM - 2022-23 (proposed)

(Rs. In lakh)

Sr. No.	Particulars	Unit	Rate of Assistance (Rs.)	Physical	Financial
				Target	Target
1.	Front line Demonstration Integrated Crop management (ICM)	ha.	8000/ha.	680	54.40
2.	Front line Demonstration on Deshi & ELS Cotton Seed Production	ha.	9000/ha.	50	4.50
3.	Front line Demonstration on intercropping (Mung, Udid)	ha.	8000/ha.	740	59.20
4.	Trails on high Density Planting System	ha.	10000/ha.	700	70.00
5.	Distribution of Plant Protection Chemicals & Bio agents Exp. max. Rs. 500/-	ha.	50% of Actual	45280	226.40
6.	State level Training @ 40000/- per batch of 20 officers/staff)	No.	40,000/ Training	3	1.20
7.	Local initiatives : cotton shredders	No.	**	110	98.00
Total				..	513.70

** For SC, ST, Women Rs. 1.00 Lakh or 50% of cost for General Category Rs. 0.80 lakh or 40% of cost whichever is less.

NFSM-CC-Sugarcane Development Programme-2021-22

Sugarcane is a principle commercial crop grown in Maharashtra. Normal area 2012-13 to 2016-17 covered under sugarcane crop in the state is 9.05 lakh ha. Normal productivity 2012-13 to 2016-17 is about 83 MT/ha. During 2021-22 an administrative approval to the programme of Rs. 272.00 lakhs was given by Government. The main components of the scheme are Demonstration on intercropping and single bud chip technology, Tissue culture raised seedlings, distribution of sugarcane Leaf shredders.

Main Objective of the scheme

1. To promote sugarcane based cropping systems through intercropping, chip bud technology, paired row system etc.
2. To increase sugarcane productivity in project area with the joint efforts of the State Agriculture Department, Sugarcane factories, SAU's and Research Institutes.
3. Effective implementation for the spread of agriculture research and technologies.

Districts Covered- Aurangabad, Jalana, Beed, Latur, Osmanabad, Nanded, Hingoli, Parbhani, Ahmednagar, Pune, Solapur, Satara, Sangli, Kolhapur.

Sugarcane Development Programme under NFSM Commercial Crops 2021-22

(Rs. in lakh)

Sr. No.	Particulars	Unit	Rate of Assistance (Rs.)	Physical		Financial	
				Target	Expected Achievement	Target	Expected Achievement
1.	Demonstration on inter-cropping and single bud chip technology with Sugarcane	ha.	9000/ha	2400	2400	216.00	216.00
2.	Production of tissue culture raised plantlets/ seedlings	ha.	3.5 per seedling	2.86 lakh	2.86 lakh	10.00	10.00
3.	State level training (20 Officials X 2 days)	Nos.	40000/ Training	4	4	1.60	1.60
4.	Distribution of plant protection chemicals and Bio-agents	ha.	500/ha	1620	1620	8.10	8.10
5.	Local initiatives : sugarcane Leaf shredders	Nos.	**	28	28	31.50	31.50
6.	Assistance for breeder seed production	ha.	40000/ha.	12	12	4.80	4.80
Total						272.00	272.00

** For SC, ST, Women Rs. 1,25,000/- unit or 50% subsidy and for General Category Rs. 1,00,000/- unit or 40% subsidy whichever is less.

Sugarcane Development Programme under NFSM Commercial Crops 2022-23 (proposed)

(Rs. in lakh)

Sr. No.	Particulars	Unit	Rate of Assistance (Rs.)	Physical	Financial
				Target	Target
1.	Demonstration on Inter-cropping and single bud chip technology with Sugarcane	ha.	9000/ha.	2700	243.00
2.	Production of tissue culture raised plantlets/seedlings	ha.	3.5 per seedling	2.86 lakh	10.00
3.	Assistance for breeder seed production	ha.	40000 per ha.	12	4.80
4.	State level training (20 Officials X 2 days)	Nos.	40000/ Training	4	1.60
5.	Distribution of plant protection chemicals and Bio-agents	ha.	Cost of 50%	1660	8.30
6.	Local initiatives : sugarcane Leaf shredders	Nos.	**	28	31.50
Total				..	299.20

** For SC, ST, Women Rs. 1,25,000/- unit or 50% subsidy and for General Category Rs. 1,00,000/- unit or 40% subsidy whichever is less.

NATIONAL FOOD SECURITY MISSION**(Rice, Wheat, Pulses, Coarse Cereals-Maize and Nutri- Cereals)**

The National Development Council (NDC) in its 53^{ed} meeting held on 29th May, 2007 adopted a resolution to launch National Food Security Mission to increase production of Rice, Wheat, Pulses by the end of 11th FYP. Increasing production through area expansion and productivity enhancement, Restoring soil fertility and productivity are the main objectives of this Mission. The Mission is continued during 12th FYP. From the year 2018-19 as per revised guideline Coarse Cereals-Maize and Nutri- Cereals crops are included in this Mission. District Covered under this Mission.

District Covered

Rice : Nashik, Pune, Satara, Nagpur, Bhandara, Chandrapur, Gadchiroli (8 Districts)

Wheat : Solapur, Beed, Nagpur. (3 Districts)

Pulses : All District in Maharashtra State (34 Districts).

Coarse Cereals (Maize) : Aurangabad, Nashik, Jalgaon, Dhule, Ahmednagar, Jalna, Sangali (7 Dist.).

Nutri-Cereals

(Jawar, Bajara, Ragi & Small Millets) : Ahmednagar, Akola, Amaravati, Aurangabad, Beed, Buldhana, Dhule, Hingoli, Jalgaon, Jalna, Kolhapur, Latur, Nanded, Nandurbar, Nashik, Osmanabad, Parbhani, Pune, Raigad, Ratnagiri, Sangali, Satara, Solapur, Thane, Washim, Yavatmal (26 Districts.)

(A) National Food Security Mission Pulses-Progress Report-2020-21 (Final)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	NFSM Pulses			
				Target		Achievement	
				Physical	Financial	Physical	Financial
1. Demonstrations on improved Technologies							
<i>A) Cluster Demonstrations</i>							
i)	Tur	9000	Ha	2525	227.250	1200	56.991
ii)	Moong	9000	Ha	5100	459.000	2259	106.593
iii)	Udid	9000	Ha	2556	230.120	1757	76.160
iv)	Gram	9000	Ha	6500	585.000	14785	1131.204
Sub Total Cluster Demonstrations			Ha	16681	1501.370	20001	1370.948
B) Inter Cropping system based Demonstrations							
	Soyabean + Tur	9000	Ha	18119	1630.710	8021	487.340
C) Cropping system based Demonstration							
i)	Moong-Rabi Jowar	15000	Ha	690	103.500	280	21.515
ii)	Moong-Wheat	15000	Ha	450	67.500	300	23.920
iii)	Udid-Rabi Jowar	15000	Ha	1300	195.000	910	62.533
iv)	Udid-Wheat	15000	Ha	450	67.500	390	35.299
v)	Kh. Jowar-Gram	15000	Ha	5170	775.500	3248	341.137
vi)	Bajra-Gram	15000	Ha	1235	185.250	1000	118.876
Sub Total Cropping system based Demo.			Ha	9295	1394.250	6128	603.280
Sub Total 1 (A) to 1 (C)			Ha	44095	4526.330	34150	2461.568
2. Production & Distributions of HYV's Seeds							
<i>A) Distribution of HYV's Seeds (less than 10 years)</i>							
i)	Tur	5000	Qtl	5200	260.000	514.1	25.682
ii)	Moong	5000	Qtl	3300	165.000	45.4	2.270
iii)	Udid	5000	Qtl	383	19.150	48.3	2.415
iv)	Gram	5000	Qtl	28200	1332.100	54030.3	1349.943
Sub Total 2(A)			Qtl	37083	1776.250	54638.1	1380.310
<i>B) Distribution of HYV's Seeds (older than 10 years)</i>							
i)	Tur	2500	Qtl	2900	72.500	290.9	7.273
ii)	Moong	2500	Qtl	1200	30.000	31.5	0.788
iii)	Udid	2500	Qtl	450	11.250	88.5	2.212
iv)	Gram	2500	Qtl	14400	360.000	10488.4	125.177
Sub Total 2(B)			Qtl	18950	473.750	10899.3	135.449
Sub Total 2(A) to 2(B)			Qtl	56033	2250.000	65537.4	1515.759
<i>C) Assistance for seed Production (less than 10 years)</i>							
i)	Tur	5000	Qtl	8500	425.000	5607.8	140.195
ii)	Moong	5000	Qtl	5000	250.000	750.9	18.772
iii)	Udid	5000	Qtl	1550	77.500	42.7	1.067
iv)	Gram	5000	Qtl	31510	1497.500	80634.5	2015.862
Sub Total 2(C)			Qtl	46560	2250.000	87035.9	2175.896
3. A) Soil Management							
i)	Micro nutrients	500	Ha	46000	184.000	..	..
ii)	Gypsum / Sulphur 90 WDG	750	Ha	25000	155.990	..	..
iii)	Bio fertilizer	300	Ha	71000	213.000	..	..
Sub Total 3(A)			Ha	142000	552.990	..	..

National Food Security Mission Pulses-Progress Report-2020-21 (Contd.)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	NFSM Pulses				
				Target		Achievement		
				Physical	Financial	Physical	Financial	
B) Plant Protection Management								
i)	Distribution of PP Chemicals	500	Ha	290000	1450.000	114958	508.006	
ii)	Weedicides	500	Ha	49402	247.010	2279	10.899	
Sub Total 3 (B)			Ha	339402	1697.010	117237	518.905	
Sub Total 3(A) to 3 (B)			Ha	481402	2250.000	117237	518.905	
4 Flexi Components								
A) Farm Implements & Equipments								
i)	Seed Drill (Tractor Driven above 35 bhp) (SC/ST/S&M/ Women)	20000	Nos.	160	32.000	46	9.628	
ii)	Seed Drill (Tractor Driven above 35 bhp) (Other Farmers)	16000	Nos.	190	30.400	69	12.851	
iii)	Ridge Furrow Planter (Tractor Driven above 35 bhp) (SC/ST/S & M/Women)	75000	Nos.	300	225.000	..	..
iv)	Ridge Furrow Planter (Tractor Driven above 35 bhp) (Other Farmers)	60000	Nos.	390	234.000	..	..
v)	Rotavator (Tractor Driven above 35 bhp) (Above 20 to 35 BHP) (SC/ST/S & M/ Women)	50400	Nos.	640	322.560	132	56.131	
vi)	Rotavator (Tractor Driven above 35 bhp) (Above 20 to 35 BHP) (Other Farmer)	40300	Nos.	380	153.140	160	61.646	
vii)	Multi Crop Thresher (Tractor Driven above 35 bhp) (SC/ST/S & M/ Women)	250000	Nos.	160	400.000	28	29.430	
viii)	Multi Crop Thresher (Tractor Driver above 35 bhp) (Other Farmers)	200000	Nos.	190	380.000	48	44.285	
ix)	Power Tiller (8 bhp & Above) (SC/ST/S&M/ Women)	85000	Nos.	190	161.500	138	110.921	
x)	Power Tiller (8 bhp & Above) (Other Farmers)	70000	Nos.	390	273.000	148	97.549	
Sub Total 4 (A)				2990	2211.600	769	422.441	
B) Water Application Tools								
i)	Water carrying pipes (50% of cost to Rs. 50 per meter for HDPE pipe, Rs. 35 for PVC pipes, Rs. 20 for HDPE laminated woven lay flat tubes)	15000	Meter	500000	100.000	23997	7.785	
ii)	Pump Sets	10000	Nos.	2997	299.700	302	27.764	
Sub Total 4 (B)					399.700	..	35.549	
Sub Total 4 (A) to 4 (B)					2611.300	..	457.990	
C) Cropping system Based Training			14000	Nos.	1090	152.600	1087	137.059
D) PMT & Miscellaneous Expenses								
i)	District level			31	449.500	31	331.510	
ii)	State level			2	38.500	2	38.500	
Sub Total 4 (D)				33	488.000	33	370.010	
E) Local Initiative (Activity-wise)								
i)	Mini Dal Mill as per SMAM norms (50% of cost or 1.25 lakh whichever is less)	125000	Nos.	230	288.370	..	..
ii)	Godown Construction FPO (250 MT Capacity) (Actual Cost 25.00 lakh based on State PWD D.S.R.)	1250000	Nos.	41	512.500	2	25.000	
iii)	Seed processing unit/Cleaning & Grading Unit for FPO (actual cost of Rs. 20 lakh)	1000000	Nos.	19	190.00	..	0.000	
Sub Total 4 (E)				290	990.870	2	25.000	
Sub Total 4 (A) to 4 (E)					4242.770		990.059	
Total NFSM Pulses					15519.100		7662.187	

National Food Security Mission Pulses (NFSM Pulses)
Annual Action Plan 2021-22

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	NFSM Pulses	
				Physical	Financial
1 Demonstrations on Improved Technologies					
<i>A) Cluster Demonstrations</i>					
i)	Tur	9000	Ha	7000	630.00
ii)	Moong	9000	Ha	3692	332.28
iii)	Udid	9000	Ha	2552	229.68
iv)	Gram	9000	Ha	7700	693.00
Sub Total Cluster Demo.			Ha	20944	1884.96
<i>B) Inter Cropping System Based Demonstration</i>					
i)	Soyabean + Tur	9000	Ha	7999	719.91
<i>C) Cropping System Based Demonstration</i>					
i)	Moong-Rabi Jowar	15000	Ha	700	105.00
ii)	Moong-Wheat	15000	Ha	400	60.00
iii)	Udid-Rabi Jowar	15000	Ha	825	123.75
iv)	Udid-Wheat	15000	Ha	300	45.00
v)	Kh. Jowar/Gram	15000	Ha	4000	600.00
vi)	Bajra/Gram	15000	Ha	800	120.00
Sub Total of Cropping system based Demo.			Ha	7025	1053.75
Sub Total 1 (A) to 1 (C)			Ha	35968	3658.62
2 Production & Distributions of HYV's Seeds					
A) Distribution of HYV's Seeds (less than 10 years)					
i)	Tur	5000	Qt.	4000	200.00
ii)	Moong	5000	Qt.	435	21.75
iii)	Udid	5000	Qt.	3000	150.00
iv)	Gram	5000	Qt.	22000	1100.00
Sub Total 2 (A) (i) to 2(A)(iv)			Qt.	29435	1471.75
B) Distribution of HYV's Seeds (older than 10 years)					
i)	Tur	2500	Qt.	2000	50.00
ii)	Moong	2500	Qt.	300	7.50
iii)	Udid	2500	Qt.	1000	25.00
iv)	Gram	2500	Qt.	11000	275.00
Sub Total 2 (B)(i) to 2(B)(iv)			Qt.	14300	357.50
Sub Total 2(A) to 2 (B)			Qt.	43735	1829.25
C) Assistance for seed Production (less than 10 years)					
i)	Tur	5000	Qt.	6485	324.25
ii)	Moong	5000	Qt.	4000	200.00
iii)	Udid	5000	Qt.	1100	55.00
iv)	Gram	5000	Qt.	25000	1250.00
Sub Total 2 (C)(i) to 2(C)(iv)			Qt.	36585	1829.25

National Food Security Mission (NFSM Pulses)
Annual Action Plan 2021-22--(Contd.)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	NFSM Pulses	
				Physical	Financial
3 Plant Protection and Soil Management					
A) Soil Management					
i)	Micronutrients	500	Ha	36000	180.00
ii)	Gypsum/Sulphur 90 WDG	750	Ha	13013	98.27
iii)	Biofertilizers	300	Ha	92000	276.00
Sub Total 3(A)(i) to 3(A)(iii)				141103	554.27
B) Plant Protection Management					
i)	Distribution of PP Chemicals	500	Ha	220000	1100.00
ii)	Weedicides	500	Ha	35000	175.00
Sub Total 3(B)(i) to 3(B)(ii)				255000	1275.00
Sub Total 3(A) to 3 (B)				396103	1829.27
4 Flexi Components					
A) Farm Implements & Equipments					
i)	Seed Drill (Tractor driven above 35 bhp) (SC/ST/S&M/ Women Farmer) (50%)	20000	Nos.	137	27.40
ii)	Seed Drill (Tractor Driven above 35 bhp) (Other Farmers) (40%)	16000	Nos.	165	26.40
iii)	Ridge Furrow Planter (Tractor driven above 35 bhp) (SC/ST/S & M/Women Farmer) (50%)	75000	Nos.	256	192.00
iv)	Ridge Furrow Planter (Tractor driven above 35 bhp) (Other Farmers) (40%)	60000	Nos.	335	201.00
v)	Rotavator (Tractor driven above 35 bhp) (SC/ST/S & M/ Women Farmers)(50%)	50400	Nos.	550	277.20
vi)	Rotavator (Tractor driven above 35 bhp) (Other Farmer) (40%)	40300	Nos.	327	131.78
vii)	Multi Crop Thresher (Tractor driven above 35 bhp) (SC/ST/S & M/ Women Farmer) (50%)	250000	Nos.	137	342.50
viii)	Multi Crop Thresher (Tractor driver above 35 bhp) (Other Farmers) (40%)	200000	Nos.	164	328.00
ix)	Power Tiller (8 bhp & Above)(SC/ST/S&M/ Women Farmer)(50%)	85000	Nos.	164	139.40
x)	Power Tiller (8 bhp & Above) (Other Farmer)(40%)	70000	Nos.	335	234.50
Sub Total 4 (A)(i) to 4(A)(xiv)				2570	1900.18
B) Water Application Tools					
i)	Water carrying pipes (50% of cost to Rs. 50/- per meter HDPE pipe, Rs. 35/- per meter for PVC pipes, Rs. 20/- per meter for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000/- per farmer/beneficiary for water carrying pipe)	Rs. 20/- per meter for HDPE laminated woven lay flat tubes	Meter	418932	83.79
ii)	Pump Sets	10000	Nos.	2960	296.00
Sub Total 4(B)(i) to 4(B)(ii)				421892	379.79
Sub Total 4 (A) to 4 (B)				1180	2279.97
C) Cropping system Based Training (Four Sessions)					
				14000	901
				901	126.14

National Food Security Mission (NFSM Pulses)
Annual Action Plan 2021-22--(Contd.)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	NFSM Pulses Target	
				Physical	Financial
4 D)	PMT & Miscellaneous Expenses				
i)	District level			31	449.50
ii)	State level			2	38.50
	Sub Total 4(D)(i) to (D)(ii)			33	488.00
E)	Local Initiative (Activity-wise)				
i)	Mini Dal Mill as per SMAM norms (50% of cost or 1.25 lakh whichever is less)	125000	Nos.	150	187.50
ii)	Godown Construction (250 MT Capacity) (Actual Cost 25.00 lakh based on State PWD D.S.R.) 50% of Cost	1250000	Nos.	30	375.00
iii)	Seed processing unit/Cleaning & Grading Unit for FPO (actual cost of Rs. 20 lakh) 50% of Cost	1000000	Nos.	8	80.00
	Sub Total 4 (E)(i) to 4 (E)(iii)				642.50
	Sub Total 4 (A) to 4 (E)				3536.61
	Total NFSM Pulses				12683.00

(B) National Food Security Mission-COARSE CEREAL (Maize)
Progress Report 2020-21 (Final)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Target		Achieved	
			Physical	Financial	Physical	Financial
1	Demonstration of Improved Package					
	A) Maize	Rs. 6000/ha.	4840	290.40	6242	296.875
	Intercrop Demonstration of Improved Package					
	B) Maize/Tur + Soyabean + Maize +	Rs. 6000/ha.	2070	124.20	69	3.638
	Total Demo 1		6910	414.60	6311	300.513
2	Distribution of Certified Seeds					
	Hybrid Seed of Maize	50% of cost limited to Rs. 10000/Qtl.	2490	249.00	61	4.610
	Total of Distribution		2490	249.00	61	4.610
3	Integrated Pest Management					
	Plant Protection Chemicals	50% of cost limited to Rs. 500/ha.	24897	124.49	6683	30.665
	Total of IPM		24897	124.49	6683	30.665
4	Flexi fund : Primary processing Unit					
	Maize sheller	As per SMAM norms	415	41.50	1	1.00
	Total Flexi Fund		415	41.50	1	1.00
	Grand Total (1+4)		..	829.59	..	336.787

(B) National Food Security Mission-COARSE CEREAL (Maize)
Annual Action Plan 2021-22

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Physical	
				Target	Achieved
1	Demonstration				
	A) Demonstration of Improved Package				
		Rs. 6000/ha.	Ha	5720	343.200
	B) Demonstrations on Intercropping.	Rs. 6000/ha.	Ha	620	37.200
	Total for Demonstration 1 (A+B)			6340	380.400
2	Distribution of Certified Seeds				
	Hybrid Seed of Maize	50% of cost limited to Rs. 10000/Qtl.	Qtls.	2276	227.600
	Total Seed Distribution 2			2276	227.600
3	Plant and Soil Protection Management				
	A) Integrated Nutrient Management				
i)	Micro - Nutrients	50% of cost limited to Rs. 500/ha.	Ha	2500	12.500
ii)	Bio - Fertilizers	50% of cost limited to Rs. 300/ha.	Ha	3500	10.500
	Total for Demonstration 3 (A)			6000	23.000
	B) Integrated Pest Management				
i)	Weedicides	50% of cost limited to Rs. 500/ha.	Ha	3550	17.750
ii)	Plant Protection Chemicals & Bio-pesticides	50% of cost limited to Rs. 500/ha.	Ha	14650	73.250
	Total for Demonstration 3 (B)			18200	91.000
	Total INM & IPM			24200	114.000
4	Flexi Fund : Primary processing Unit				
i)	Maize sheller (Animal / Manual Operated)	As per SMAM norms	Nos.	10	1.000
ii)	Maize sheller (Power Operated 20 to 35BHP)	As per SMAM norms	Nos.	37	37.000
	Total Flexi Fund			47	38.000
	Total NFSM Coarse Cereals (1 to 4)				760.000

(C) National Food Security Mission Rice Progress Report 2020-21 (Final)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1 Cluster Demonstrations by State Department of Agriculture with the technical backstopping of ICAR/SAUs/IRRI							
a)	SRI for improved rice/Line transplanting	9000	Ha	2269	204.210	3470	141.481
b)	Hybrid Rice	9000	Ha	171	15.390	10	0.900
c)	Stress tolerant / bio-fortified varieties	9000	Ha	667	60.030	80	6.160
d)	Cropping system demonstration Rice Pulses (gram/cowpea/Rajma/Limabean)	15000	Ha	806	120.900	882	88.459
e)	SummerRice	6000	Ha	625	...	754	40.503
Sub Total 1(a) to 1 (e)				4538	400.530	5196	277.503
2 Seed Distribution							
a)	Hybrid Rice Seed	10000	Qtl	197	19.700	..	..
b)	HYVs Seeds (Older than 10 years)	1000	Qtl	3611	36.110	567	5.665
c)	HYVs Seeds (less than 10 years)	2000	Qtl	7222	144.440	1020	20.112
Sub Total 2 (a) to 2 (c)				11030	200.250	1587	25.777
3 Plant and Soil Protection Management							
A) Soil Management							
i)	Micronutrients	500	Ha	2138	10.690	1415	6.792
B) Plant Protection Management							
i)	Plant Protection Chemicals & Bioagent	500	Ha	22486	112.430	6911	30.966
ii)	Weedicides	500	Ha	5414	27.070	967	4.676
Sub Total 3 (A) to 3 (B)				30038	150.190	9293	42.434
4 Flexi Components							
A) Farm Implements & Equipments							
i)	Drum Seeder (above 4 rows) (SC/ST/Small & Marginal, Women Farmers) (50%)	4000	Nos.	8	0.310	..	..
ii)	Drum Seeder (above 4 rows) (Other farmers) (40%)	3000	Nos.	34	1.020	..	..
iii)	Seed Drill (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal, Women Farmers) (50%)	20000	Nos.	13	2.600	9	1.765
iv)	Seed Drill (Tractor Driven above 35bhp) (Other farmers) (40%)	16000	Nos.	9	1.440	11	2.079
v)	Power Weeder-Engine operated above 2bhp (SC/ST/Small & Marginal, Women Farmers) (50%)	25000	Nos.	9	2.250	..	..
vi)	Power Weeder-Engine operated above 2bhp (Other farmers) (40%)	20000	Nos.	13	2.600	1	0.224
vii)	Rotavator (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal, Women Farmers) (50%)	50400	Nos.	33	16.632	53	23.302
viii)	Rotavator (Tractor Driven above 35 bhp) (Other farmers) (40%)	40300	Nos.	20	8.060	12	4.927
ix)	Paddy Thresher (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal, Women Farmers) (50%)	100000	Nos.	5	5.000	15	14.493
x)	Paddy Thresher (Tractor Driven above 35 bhp) (Other farmers) (40%)	80000	Nos.	4	3.200	2	1.600
xi)	Multi Crop Thresher (Tractor Driven above 35bhp) (SC/ST/Small & Marginal, Women Farmers)	250000	Nos.	5	12.500	7	6.632
xii)	Multi Crop Thresher (Tractor Driven above 35bhp) (Other farmers) (40%)	200000	Nos.	5	10.000	4	3.600

(C) National Food Security Mission Rice-Progress Report-2020-21 (Final) (Contd.)

(Rs. in Lakh)

Sr. No.	Interventions Assistance	Approved Rate of Assistance	Unit	Target		Total Achievement	
				Phy.	Fin.	Phy.	Fin.
4	xiii) Self Propelled paddy Transplanter (above 4-8 rows, 8-16 rows) (SC/ST/Small & Marginal, Women Farmers) (50%)	800000	Nos.	5	40.000	..	..
	xiv) Self Propelled paddy Transplanter (above 4-8 rows, 8-16 rows) (Other farmers) (40%)	650000	Nos.	5	32.500	..	..
	xv) Power Tiller (8 bhp & above) (SC/ST/Small & Marginal, Women Farmers) (50%)	85000	Nos.	5	4.250	4	2.453
	xvi) Power Tiller (8 bhp & above) (Other farmers) (40%)	70000	Nos.	5	3.500	1	0.440
	xvii) Reaper (above 35 bhp) (SC/ST/Small & Marginal, Women Farmer) (50%)	75000	Nos.	6	4.500	2	1.295
	xviii) Reaper (above 35 bhp) (Other farmers) (40%)	60000	Nos.	4	2.400	..	..
	xix) Reaper-cum-binder (SC/ST/Small & Marginal, Women Farmers) (50%)	150000	Nos.	7	10.500	..	..
	xx) Reaper-cum-binder (Other farmers) (40%)	120000	Nos.	6	7.200	1	0.692
Sub Total 4(A)				201	170.462	122	63.502
5 (A) Efficient Water Application tools :							
i)	Incentive for Pump Sets	10000	Nos.	150	15.000	8	0.591
ii)	Water Carrying pipes (50% of cost lmt to Rs.50/- per meter of HDPE pipes, Rs.35/- per meter for PVC pipes and Rs. 20/- per meter for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000/- per farmer / beneficiary for water carrying pipe)	Rs. 20/- per meter for HDPE laminated woven lay flat tubes	Mtr.	13714	4.800	2170	0.940
Sub Total 5(A)					19.800		1.531
Sub Total 4 to 5					190.262		65.033
6	Cropping System based trainings	14000	Nos.	72	10.080	41	5.535
7 Local Initiative							
i)	Godown Construction upto 250 MT Capacity (Actual Cost 25.00 lakh based on State PWD D.S.R.) 50% of cost	1250000	Nos.	1	12.500	..	..
ii)	Mini Rice Mill (50% or Rs. 200000 which ever is less SMAM Norm) for Farmer's group	200000	Nos.	10	20.000	..	..
iii)	Cultivation of Local variety (Market-led-Extension) 50% of cost	4500	Ha.	122	5.490	..	..
iv)	Fish farming in Paddy Field (Rs. 25000 for (SC/ST & Rs. 20000 for other farmers)	20000	Acre	60	12.000	..	..
Sub Total 7					49.990	..	..
Total Financial					1001.302		416.282

**National Food Security Mission Rice
Annual Action Plan 2021-22**

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target	
				Physical	Financial
1	Cluster Demonstrations by State Department of Agriculture with the technical backstopping of ICAR/SAUs/IRRI				
a)	Mech. Transplanting of Rice	9000	Ha	175	15.75
b)	Line transplanting	9000	Ha	293	26.37
c)	SRI for improved rice	9000	Ha	1591	143.19
d)	Hybrid rice	9000	Ha	120	10.80
e)	Cropping system demonstration (Rice-Pulses) (gram/cowpea/Rajma/Limabean)	15000	Ha	565	84.75
	Sub Total 1(a) to 1 (e)			2744	280.86
2	Seed Distribution				
a)	Hybrid Rice Seed	10000	Qtl.	138	13.80
b)	HYVs Seeds (older than 10 years)	1000	Qtl.	2532	25.32
c)	HYVs Seeds (less than 10 years)	2000	Qtl.	5064	101.28
	Sub Total 2(a) to 2 (c)			7734	140.40
3	Plant and Soil Protection Management				
	(A) Soil Management				
a)	Micronutrients	500	Ha.	1500	7.50
	(B) Plant Protection Management				
a)	Plant Protection Chemicals & Bioagent	500	Ha.	15768	78.84
b)	Weedicides	500	Ha.	3800	19.00
	Sub Total 3(A) to 3 (B)			21068	105.34
4	Flexi Components				
	A) Farm Implements & Equipments				
i)	Drum Seeder (above 4 rows) (SC/ST/Small & Marginal & Women farmer) (50%)	4000	Nos.	5	0.20
ii)	Drum Seeder (above 4 rows) (Other farmers) (40%)	3000	Nos.	4	0.12
iii)	Seed Drill (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	20000	Nos.	9	1.80
iv)	Seed Drill (Tractor Driven above 35 bhp) (Other farmers) (40%)	16000	Nos.	7	1.12
v)	Power Weeder-Engine operated above 2 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	25000	Nos.	9	2.25
vi)	Power Weeder-Engine operated above 2 bhp) (Other farmers) (40%)	20000	Nos.	9	1.80
vii)	Rotavator (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	50400	Nos.	24	12.10
viii)	Rotavator (Tractor Driven above 35 bhp) (Other farmers) (40%)	40300	Nos.	15	6.05
ix)	Paddy Thresher (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	100000	Nos.	4	4.00
x)	Paddy Thresher (Tractor Driven above 35 bhp) (Other farmers) (40%)	80000	Nos.	4	3.20
xi)	Multi Crop Thresher (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers)	250000	Nos.	4	10.00
xii)	Multi Crop Thresher (Tractor Driven above 35 bhp) (Other farmers) (40%)	200000	Nos.	4	8.00
xiii)	Self Propelled paddy Transplanter (above 4-8 rows, 8-16 rows) (SC/ST/Small & Marginal & Women farmers) (50%)	800000	Nos.	3	24.00

National Food Security Mission (NFSM Rice)
Annual Action Plan 2021-22--(Contd.)

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target	
				Physical	Financial
xiv)	Self Propelled paddy Transplanter (above 4-8 rows, 8-16 rows)(Other farmers) (40%)	650000	Nos.	3	19.50
xv)	Power Tiller (8 bhp & above) (SC/ST/Small & Marginal & Women farmers) (50%)	85000	Nos.	4	3.40
xvi)	Power Tiller (8 bhp & above) (Other farmers) (40%)	70000	Nos.	4	2.80
xvii)	Reaper (above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	75000	Nos.	4	3.00
xviii)	Reaper (above 35 bhp) (Other Farmers) (40%)	60000	Nos.	4	2.40
xix)	Reaper-cum-binder (SC/ST/Small & Marginal & Women farmers) (50%)	150000	Nos.	5	7.50
xx)	Reaper-Cum-binder (Other farmers) (40%)	120000	Nos.	5	6.00
Sub Total 4 (Ai) to 4 (A)				130	119.23
B) Water Application Tools					
i)	Incentive for Pump Sets	10000	Nos.	106	10.60
ii)	Water carrying pipes from source to field (as per PMKSY norms)	50% of cost lmtd to Rs. 50/- per meter of HDPE pipes, Rs.35/- per meter for PVC pipes and Rs.20/-per meter for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000/- per farmer/beneficiary.	Meter	9828	3.44
Sub Total 4 (B)					14.04
Sub Total 4 (A) to 4 (B)					133.27
C) Cropping system Based Training		14000	Nos.	50	7.00
D) Local Initiatives					
i)	Godown Construction upto 250 MT Capacity (Actual Cost-25.00 Lakh based on State PWD D.S.R.) 50% of cost	1250000	Nos.	1	12.50
ii)	Mini Rice Mill (50% or Rs. 200000 whichever is less SMAM Norm) for Farmer's group	200000	Nos.	5	10.00
iii)	Cultivation of Local variety (Market-led-Extension) 50% of cost.	4500	ha.	94	4.23
iv)	Fish farming in paddy field (Rs.25000 for SC ST & Rs. 20000 for other farmers)	20000	Acre	42	8.40
Sub Total 4 (D)					35.13
Total Financial					702.001

**(D) National Food Security Mission Wheat
Progress Report 2020-21 (Final)**

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	Demonstration on Improved Technologies						
	A) Cluster Demonstration	9000	Ha	1009	90.81	690	49.506
	B) Stress tolerant / Biofortified Varieties	9000	Ha	433	38.97	210	12.043
	C) Cropping system based Demonstration Wheat preceded by Kh. Soyabean	15000	Ha	375	56.25	240	30.985
	Sub Total 1(A) to 1 (C)			1817	186.03	1140	92.53
2	Distribution of Certified seeds						
	a) HYVs Seeds (older than 10 years)	1000	Qtl.	1860	18.60	785	7.848
	b) HYVs Seeds (less than 10 years)	2000	Qtl.	3720	74.40	1222	23.292
	Sub Total 2(a) to 2 (b)			5580	93.00	2007	31.14
3	A) Plant Protection and Soil Management						
	i) Micronutrients	500	Ha	5000	25.00	..	..
	B) Plant Protection Management						
	i) Plant Protection Chemicals & bio-agents	500	Ha	5616	28.08	2232	11.150
	ii) Weedicides	500	Ha	3333	16.67	338	1.687
	Sub Total 3 (A) to 3 (B)			13949	69.75	2570	12.84
4	Flexi Components						
	A) Farm Implements & Equipments						
	i) Chiesl plough (above 20-35 bhp tractor driven) (SC/ST/Small & Marginal & Women farmers) (50%)	20000	Nos.	5	1.00	..	..
	ii) Chiesl plough (above 20-35 bhp tractor driven) (Other farmers) (40%)	16000	Nos.	5	0.80	..	..
	iii) Seed Drill (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	20000	Nos.	5	1.00	..	..
	iv) Seed Drill (Tractor Driven above 35 bhp) (Other farmers) (40%)	16000	Nos.	4	0.64	3	0.596
	v) Zero Till Seed-cum-Fertilizer Drill (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	28000	Nos.	5	1.40	..	..
	vi) Zero Till Seed-cum-Fertilizer Drill (Tractor Driven above 35 bhp) (Other farmers) (40%)	22400	Nos.	5	1.12	..	..
	vii) Zero Till Multi Crop Planter (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	75000	Nos.	4	3.00	..	..
	viii) Zero Till Multi Crop Planter (Tractor Driven above 35 bhp) (Other farmers) (40%)	60000	Nos.	5	3.00	..	..
	ix) Rotavator (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	50400	Nos.	7	3.53	4	1.815
	x) Rotavator (Tractor Driven above 35 bhp) (Other farmers) (40%)	40300	Nos.	7	2.82	10	4.170
	xi) Multi Crop Thresher (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	250000	Nos.	6	15.00	..	..
	xii) Multi Crop Thresher (Tractor Driven above 35 bhp) (Other farmers) (40%)	200000	Nos.	4	8.00	..	..
	xiii) Power Tiller (8 bhp and above) (SC/ST/Small & Marginal & Women farmers) (50%)	85000	Nos.	9	7.65	4	3.090
	xiv) Power Tiller (8 bhp and above) (Other farmers) (40%)	70000	Nos.	8	5.60	5	3.288

**(D) National Food Security Mission Wheat
Progress Report 2020-21 (Final)--(Contd.)**

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
xv)	Reaper (above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	75000	Nos.	4	3.00	..	..
xvi)	Reaper (above 35 bhp) (Other farmers) (40%)	60000	Nos.	4	2.40	..	..
xvii)	Reaper cum binder (SC/ST/Small & Marginal & Women farmers) (50%)	150000	Nos.	4	6.00	..	..
xviii)	Reaper-cum-binder (Other farmers) (40%)	120000	Nos.	4	4.80	..	..
Sub Total 4 (A)				95	70.76	26	12.96
Water Application tools :							
B)	Incentive for Pump Sets	10000	Nos.	91	9.10	9	0.853
C)	Water carrying pipes (50% of cost lmtd. to Rs.50/-per meter of HDPE pipes. Rs. 35/- per meter for PVC pipes and Rs. 20/- per meter for HDPE laminated woven lay flat tubes with maximum ceiling of Rs. 15000/- per farmer/beneficiary for water carrying pipe)	Rs. 20/- per meter for HDPE laminated woven lay flat tubes	Mtr.	39850	7.97	3154	0.420
Sub Total of 4 B & C				39941	17.07	..	1.272
Sub Total of 4 (A) to 4 (C)				87.829		14.230	
D) Cropping system based trainings		14000	Nos.	25	3.50	25	2.939
E) Local Initiatives							
a)	Godown Construction upto 250 MT capacity (Actual Cost 25.00 lakh) based on State PWD D.S.R.) 50% of cost	1250000	Nos.	2	25.00	..	..
Sub Total of 4 (A) to 4 (E)				116.33		17.169	
Total Financial (1 to 4)				465.10		.. 153.680	

**National Food Security Mission Wheat
Annual Action Plan 2021-22**

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target	
				Physical	Financial
1	Demonstration on Improved Technologies				
	A) Cluster Demonstration	9000	Ha	542	48.78
	B) Stress tolerant/bio-fortified varieties	9000	Ha	233	20.97
	C) Cropping system based Demonstration Wheat preceded by Kh. Soyabean	15000	Ha	202	30.30
	Total of 1(A) to 1 (C)			977	100.05
2	Distribution of Certified seeds				
	a) HYVs Seeds (older than 10 years)	1000	Qtl.	1000	10.00
	b) HYVs Seeds (less than 10 years)	2000	Qtl.	2000	40.00
	Total 2(a) & 2 (b)			3000	50.00
3	A) Plant Protection and Soil Management				
	i) Micronutrients	500	Ha	2688	13.44
	B) Plant Protection Management				
	i) Plant Protection Chemicals & bio-agents	500	Ha	3020	15.10
	ii) Weedicide	500	Ha	1792	8.96
	Sub Total 3 (A) to 3 (B)			7500	37.50
4	Flexi Components				
	A) Farm Implements & Equipments				
	i) Chiesl plough (above 20-35 bhp tractor driven) (SC/ST/Small & Marginal & Women farmers) (50%)	20000	Nos.	3	0.60
	ii) Chiesl plough (above 20-35 bhp tractor driven) (Other farmers) (40%)	16000	Nos.	3	0.48
	iii) Seed Drill (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	20000	Nos.	5	1.00
	iv) Seed Drill (Tractor Driven above 35 bhp) (Other farmers) (40%)	16000	Nos.	4	0.64
	v) Zero Till Seed cum Fertilizer Drill (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	28000	Nos.	3	0.84
	vi) Zero Till Seed cum Fertilizer Drill (Tractor Driven above 35 bhp) (Other farmers) (40%)	22400	Nos.	3	0.67
	vii) Zero Till Multi Crop Planter (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	75000	Nos.	2	1.50
	viii) Zero Till Multi Crop Planter (Tractor Driven above 35 bhp) (Other farmers) (40%)	60000	Nos.	2	1.20
	ix) Rotavator (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	50400	Nos.	4	2.02
	x) Rotavator (Tractor Driven above 35 bhp) (Other farmers) (40%)	40300	Nos.	4	1.61
	xi) Multi Crop Thresher (Tractor Driven above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	250000	Nos.	3	7.50
	xii) Multi Crop Thresher (Tractor Driven above 35 bhp) (Other farmers) (40%)	200000	Nos.	3	6.00
	xiii) Power Tiller (8 bhp and above) (SC/ST/Small & Marginal & Women farmers) (50%)	85000	Nos.	6	5.10
	xiv) Power Tiller (8 bhp and above) (Other farmers) (40%)	70000	Nos.	6	4.20

**National Food Security Mission Wheat
Annual Action Plan 2021-22-(Contd.)**

(Rs. in Lakh)

Sr. No.	Interventions	Approved Rate of Assistance	Unit	Target	
				Physical	Financial
xv)	Reaper (above 35 bhp) (SC/ST/Small & Marginal & Women farmers) (50%)	75000	Nos.	3	2.25
xvi)	Reaper (above 35 bhp) (Other farmers) (40%)	60000	Nos.	2	1.20
xvii)	Reaper cum binder (SC/ST/Small & Marginal & Women farmers) (50%)	150000	Nos.	1	1.50
xviii)	Reaper cum binder (Other farmers) (40%)	120000	Nos.	1	1.20
Sub Total 4 (A i) to 4 (A xviii)				58	39.51
B) Water Application Tools :					
i)	Inventive for Pump sets	10000	Nos.	40	4.00
ii)	Water carrying pipes form source to field (as per PMKSY norms)	Rs. 20/- per meter for HDPE laminated woven lay flat tubes	Mtr.	19600	3.92
Sub Total 4(B) (i) to 4(B)(ii)				7.92	
Total 4 (A) to 4 (B)				47.43	
C) Cropping System based trainings		14000	Nos.	18	2.52
D) Local Initiatives					
a)	Godown Construction upto 250 MT capacity (Actual Cost 25.00 lakh) based on State PWD D.S.R.) 50% of cost	1250000	Nos.	1	12.50
Total Financial (1 to 7)				250.00	

**(E) National Food Security Mission-Nutri Cereals
Progress Report 2020-21 (Final)**

(Rs. in Lakh)

Sr. No.	Intervention	Rate of Assistance	Target		Achieved	
			Physical	Financial	Physical	Financial
1	Cluster Front line Demonstration by State					
i)	Jowar		25500	1530.00	32309	1136.289
ii)	Bajra	Rs. 6000/ha	18025	1081.50	3981	134.265
iii)	Ragi		3525	211.50	581	16.704
	Total Demo (1)		47050	2823.00	36871	1287.258
2	Distribution of Seeds					
	(a) Hybrid seed of nutritive variety (25% of allocation for seed distribution)					
	Jowar	Rs. 10000/Qtl.	..	..	11.48	0.739
	Sub Total 2 a(i) to (ii)		..	..	11.48	0.739
	(b) HYVs Seed (75% of allocation for seed distribution)					
i)	Jowar (for varieties < 10 Years.)		3160	94.80	552	10.040
ii)	Bajra (for varieties < 10 Years.)	Rs. 3000/Qtl.	962	28.86	27.4	0.821
	Sub Total 2 (i) to (iii)		4122	123.66	579	10.861
iii)	Jowar (for varieties > 10 Years.)	Rs. 1500/Qtl.	10150	152.25	1075	9.297
	Sub Total 2 (iv) to (vi)		10150	152.25	1075	9.297
	Sub Total [Item 2(b)]		14272	275.91	1654	20.158
	Total Seed Distribution 2(a) & 2 (b)		14272	275.91	1666	20.897
3	Certified Seed Production of HYVs seeds by State < 10 years old varieties					
	HYVs seeds by State < 10 years old varieties					
i)	Jowar		4926	147.78	11764	312.921
ii)	Bajra	Rs. 3000/Qtl.	1600	48.00	1962	55.870
iii)	Ragi		141	4.23	16	2.346
	Sub Total (3)		6667	200.01	13741	371.136
4	Integrated Nutrient Management (INM)					
i)	Micro-Nutrient	Rs. 500/Ha.	17199	86.00	12695	55.503
ii)	Bio-Fertilizer	Rs. 300/Ha.	28665	86.00	35439	58.186
	Sub Total - 4		45864	171.99	48134	113.689
5	Integrated Pest Management (IPM)					
i)	Weedicides	Rs. 500/Ha.	110074	550.37	31587	141.368
ii)	P. P. Protection Chemicals & Bio-agents	Rs. 500/Ha.	27519	137.59	74420	330.871
	Sub Total - 5		137593	687.97	106007	472.239
	Total for INM & IPM (4+5)		183457	859.96	154141	585.928
6	Flexi Components					
	A) Water application tools					
i)	Sprinkler	As per SMAM &	10350	1035.00	7042	119.678
ii)	Pipes	PMKSY guidelines	..	..	..	..
	Total		10350	1035.00	7042	119.678
	B) Farm implements & equipments					
i)	Manual Sprayer for SC/ST, Women, Small and Marginal Farmers	50% of the cost or limited to Rs. 750/- unit	4414	33.11	..	..
ii)	Manual Sprayer for other farmers	40% of the cost or limited to Rs. 600/- unit	4600	27.60	..	..
	Total		9014	60.71	..	..

**(E) National Food Security Mission-Nutri Cereals
Progress Report 2020-21 (Contd.)**

(Rs. in Lakh)

Sr. No.	Intervention	Rate of Assistance	Target		Achieved	
			Physical	Financial	Physical	Financial
6	C) Establishment of Primary Processing Unit					
i)	Cleaner cum Grader	Rs. 1.00 Lakh/Unit	175	175.00	3	2.648
ii)	Dehusker	Rs. 0.75 Lakh/Unit	50	37.50	..	..
	D) Cropping system based training	Rs. 14000/trg	54	7.56	51	6.883
	E) Awareness / Publicity					
i)	Publicity-District Level	Rs. 1.00 Lakh/Dist.	27	27.00	21	16.63800
ii)	Publicity-State Level	Lump-sum	1	5.00	..	..
iii)	District level Workshop	Rs. 2.50 Lakh/Dist	27	67.50	15	33.741
	Total Flexi Component			1415.27		179.588
	Total NFSM-Nutri-Cereals (Jowar, Bajara and Ragi)			5574.14		2444.757

**National Food Security Mission-Nutri Cereal
Annual Action Plan 2021-22**

(Rs. in Lakh)

Sr. No.	Intervention	Approved Rate of Assistance	Unit	Target	
				Physical	Financial
1 Demonstration of improved packages					
i)	Jowar (Kharif + Rabi)	Rs. 60000/Ha.	Ha.	30110	1806.60
ii)	Bajra	Rs. 60000/Ha.	Ha.	16350	981.00
iii)	Ragi	Rs. 60000/Ha.	Ha.	6250	375.00
iv)	Proso Millet (Varai)	Rs. 60000/Ha.	Ha.	10	0.60
Sub Total - 1				52720	3163.20
2 Distribution of Seed					
(a) Hybrid seed of nutritive variety (25% of allocation for seed distribution)					
i)	Jowar	Rs. 10000/Qtl.	Qtl.	..	..
ii)	Bajra	Rs. 10000/Qtl.	Qtl.	..	..
Sub Total 2 a (i) to (ii)				..	..
(b) HYVs Seed (75% of allocation for seed distribution)					
i)	Jowar (for varieties < 10 Years)	Rs. 3000/Qtl.	Qtls.	9499.00	284.970
ii)	Bajra (for varieties < 10 Years)	Rs. 3000/Qtl.	Qtls.	2354.00	70.620
iii)	Ragi (for varieties < 10 Years)	Rs. 3000/Qtl.	Qtls.	..	..
Sub Total 2 b (i) to (iii)				11853.00	355.59
iv)	Jowar (for varieties > 10 Years)	Rs. 1500/Qtl.	Qtls.	5925.00	88.8750
Sub Total 2 (iv)				5925.00	88.88
Sub Total Item (2b)				17778.00	444.47
Total for Items 2 (a) & 2 (b)				17778.00	444.47
3 Certified Seed Production of HYVs seeds by State < than 10 years old varieties					
HYVs seeds by State < 10 years old varieties					
i)	Jowar	Rs. 3000/Qtl.	Qtls.	14050	421.51
ii)	Bajra	Rs. 3000/Qtl.	Qtls.	3200	96.00
iii)	Ragi	Rs. 3000/Qtl.	Qtls.	200	6.00
iii)	Proso millet	Rs. 3000/Qtl.	Qtls.	1	0.03
Sub Total Item (3)				17451	523.54
4 Integrated Nutrient Management (INM)					
i)	Micronutrient	Rs. 500/Ha	Ha.	6000	30.00
ii)	Bio-fertilizer	Rs. 300/Ha.	Ha.	20000	60.00
Sub Total (Item 4)				26000	90.00
5 Integrated Pest Management (IPM)					
i)	Weedicides	Rs. 500/Ha	Ha.	28200	141.00
ii)	Plant Protection Chemicals & Bio-agents	Rs. 500/Ha.	Ha.	160000	800.00
Sub Total-5				188200	941.00
Total INM & IPM (Item 4 + 5)				214200	1031.00

**National Food Security Mission-Nutri Cereal
Annual Action Plan 2021-22**

(Rs. in Lakh)

Sr. No.	Intervention	Approved Rate of Assistance	Target	
			Physical	Financial
6 Flexi Components				
A) Water Application Tools				
	i) Portable Sprinkler	As per PMKSY guidelines, Rs. 21901/(55% of cost) for (SC/ST, Women, Small, Marginal Farmers) & Rs. 19542, (45% of cost) for other farmers	1000	120.46
	ii) Pump Set	Rs. 10000/-unit or 50% of cost whichever is less	7650	765.00
	iii) Pipes (Meters)	As per SMAM guidelines	1300000	650.00
	Total		..	1535.46
B) Farm implements & equipments				
	i) Crop Reaper (Tractor Drawn above 35 BHP & Specilized self propelled machinery)	As per SMAM guidelines, Rs. 0.75 lakh/(50% of cost) for (SC/ST, Women, Small, Marginal Farmers) & Rs. 0.60 lakh, (40% of cost) for other farmers	50	37.500
	ii) Threshers operated by engine/ electric motor below 5bhp/power tiller/tractor below 35BHP	As per SMAM guidelines, Rs. 0.40 lakh/(50% of cost) for (SC/ST, Women, Small, Marginal Farmers) & Rs. 0.30 lakh, (40% of cost) for other farmers	35	14.000
	Total		85	51.500
C) Establishment of Primary Processing Unit				
	Cleaner cum Grader/Gradient separator/ specific gravity separator	As per SMAM guidelines, Rs. 1.00 lakh/(50% of cost) for (SC/ST, Women, Small, Marginal Farmers) & Rs. 0.80 lakh, (40% of cost) for other farmers	20	20.000
	Total		20	20.000
	D) Cropping system based training	Rs. 14000/trg	31	4.340
E) Awareness/Publicity				
	i) Publicity- District level	Rs.1.00 Lakh/Dist.	31	31.000
	ii) District level Workshop	Rs. 2.50 Lakh/Dist.	31	77.500
	Total		62	108.500
	Total Flexi Component			1719.796
	Total NFSM-Nutri-Cereals (Jowar, Bajara and Ragi)			6882.000

National Food Security Mission-TRFA PULSES Progress Report 2020-21 (Final)

(Rs. in Lakh)

Sr. No.	Intervention	Approved Rate of Assistance	Unit	Target		Achieved	
				Physical	Financial	Physical	Financial
1 Demonstrations on Improved Technologies							
i)	Chick pea	9000	Ha.	9850	886.50	10479	852.040
ii)	Grass pea	9000	Ha.	150	13.50	..	..
Sub Total Cluster Demonstrations				10000	900.00	10479	852.040
2 Production Input							
A) Distribution of Certified Seeds (less than 10 years)							
i)	Chick pea (less than 10 years)	2500	Qtl.	12000	300.00	4611	115.288
ii)	Chick pea (older than 10 years)	1200	Qtl.	..	..	1294	15.530
Sub Total 2 (A)				12000	300.000	5905	130.818
B) Plant Protection Chemicals		500	Ha.	10000	50.000	7923	36.836
Sub Total 2 (A) + (B)				Ha.	..	..	167.654
C) Cropping system based Training (Four Sessions)		14000	Nos.	170	23.800	168	22.722
Total TRFA Pulses				..	1273.800	..	1042.416

National Food Security Mission (TRFA Pulses) Annual Action Plain (AAP) during 2021-22

(Rs. in Lakh)

Sr. No.	Intervention of Assistance	Approved Rate of Assistance	Physical	Target		
				GOI Share	Financial State Share	Total
1 Cluster Demonstration						
i)	Chick pea	Rs. 9000/Ha.	9334	504.036	336.024	840.06
ii)	Grass pea	Rs. 9000/Ha.	142	7.668	5.112	12.78
Sub Total 1 (i) to 1(ii)			9476	511.704	341.136	852.84
2 Distribution of Inputs						
(i) Distribution of Certified Seed						
i)	Chick pea	Rs. 2500/Qtl.	11370	170.55	113.70	284.25
ii)	PP Chemicals	Rs. 500/Qtl.	9474	28.422	18.948	47.37
Sub Total 2 (i) to 2 (ii)			..	198.972	132.648	331.620
3 Training for Cropping system based						
		Rs. 14000/pertrg of 4 season	161	13.524	9.016	22.54
Grand Total			..	724.20	482.80	1207.00

Gender Budget in Agriculture

Women plays important role in Agriculture Development. Most of field operations Viz., weeding, picking, harvesting etc. are carried out by women conveniently. To bring equability among men and women, women are participated in planning and execution on priority basis. To increase their participation, 30 percent of budget allocation is kept reserve in agriculture development schemes. In absence of their names in MAHA-DBT and revenue records difficulties arise in recording their names as beneficiary, even though they are benefitted. The increased subsidies are provided to women farmers as compared to men farmers.

To make ease availability of vegetable seedlings, a separate scheme named Punyashlok Rajmata Ahilyadevi Holkar Vegetable Nursery is being implemented for women. In spite promotion to vegetable growing, this scheme also created self-employment opportunities at local level.

While promoting group farming, Agriculture department have established separate women beneficiary groups that resulting in improving the social and economic status of women.

Agriculture University Programme
(A) Mahatma Phule Krishi Vidyapeeth, Rahuri, Tal. Rahuri,
Dist. Ahmednagar- 413 722

Varieties Released and Farm Machinery and Recommendations passed in
46th Joint Agrosco- 2018

I. Released Varieties :-6

1. Chickpea variety : Phule Vikrant (Phule G-0405)

High yielding and resistant to *Fusarium* wilt Chickpea variety “Phule Vikrant (Phule G-0405)” has been released for West Central Zone of India (Maharashtra, Gujarat, West MP and South Rajasthan) by Central Variety Release Committee (Meeting was held at Gwalior on 10 Nov. 2017).

Salient Features

- Average Yield - 20.00 qt./ha.
- Potential Yield - 41.00 qt./ha
- Resistant to - *Fusarium* wilt
- Duration - 110 Days

2. Cotton hybrid : Phule Chetana (RHB-1014) :

The extra long staple inter specific cotton hybrid “Phule Chetana (RHB-1014)” is recommended and released for cultivation in Egyptian cotton growing area of Maharashtra under irrigated condition.

Salient Features

- The hybrid Phule Chetana (RHB-1014) recorded highest seed cotton yield of 17.00 qt./ha.
- 44% per cent more higher yield than DCH-32 and Phule-388.
- Excellent fibre properties with extra long staple length.

3. Sugarcane variety : VSI-12121

The Mid-Late “sugarcane variety VSI- 12121” is recommended and released for cultivation for commercial cultivation in *Adsali*, *Pre-season* and *Suru* seasons of Maharashtra State.

Salient Features

- Higher Yield -141.00 t/ha. than sugarcane variety Co 86032 (119.00 t/ha. by 18.85%).
- It has recorded higher sucrose (20.16) than Co 86032 (19.34) variety at 14th months of crop age.
- Sugar Yield-16.45 t/ha.
- Good ratoonability.
- Moderately resistant to smut, red-rot and rust disease and less susceptible to internode borer.
- Recommended for commercial cultivation in *Adsali Pre-season* and *Suru* seasons for Maharashtra State.

4. Banana : Phule Pride (BRS 2013-3)

“Phule Pride (BRS 2013-3)”, a natural dwarf variety of banana having early maturity, resistant to lodging, pseudostem break, bunch break and tolerant to leaf spot (*Sigatoka*) disease is recommended and released for cultivation in Western Maharashtra.

Salient Features

- Plant height-Very dwarf (1.53m)
- Yield- 98.00 t/ha (22.04 kg./Plant)
- Days to harvesting- 320 days
- Bunch-Cylindrical, compact and uniform
- Disease reaction- Tolerant to *Sigatoka* leaf spot.

5. Papaya : Phule Vijaya (GKPS-2-7)

The papaya variety “Phule Vijaya (GKPS-2-7)” having field resistance against papaya ring spot virus disease with firm, attractive, yellow pulp and higher yield is recommended and released for cultivation in Maharashtra.

Salient Features

- Resistance to ring spot virus disease
- Yield-58.00 t/ha. (46.00 kg./plant)
- Number of fruits - 34 / plant
- Pulp-Yellow color

6. Cherry Tomato - Phule Jayashree (RHRCT-12-6)

The Cherry tomato “Phule Jayashree (RHRCT-12-6)” with attractive orange red colour, round and juicy fruits is recommended and released for cultivation in Western Maharashtra.

Salient Features

- Average yield 53.00 t/ha.
- Lycopene - 2.5mg./100gm
- Ascorbic acid - 118mg./100gm.
- Orange red color fruits.
- Moderately resistant to leaf curl and spotted wilt viral diseases.

II. Farm Machinery :-

Hand Cum Pedal Operated Raw Mango Cutting Machine

Hand cum pedal operated Phule raw mango cutting machine is recommended for small scale pickle industries on the basis of efficiency and economics.

Salient Features

- Output capacity : 40-60Kg.h⁻¹
- No black colour of cut portion of raw mango
- Easy to use
- Labor saving of 54 % over traditional method
- Output capacity double over traditional method

III. Recommendations :-

1. late sowing of *Kharif pearl* millet crop variety *Dhanshakti* during 20th August to 2nd September (*Magha Nakshatra*, MW 34-35) in medium deep soils of Scarcity Zone of Maharashtra under late monsoon situation is recommended for sustainable production.

2. Sowing of *Kharif* sunflower as a contingent crop (Variety - Phule Bhaskar) in 2nd fortnight of July (*i.e.* 16th to 29th July, *Pushya Nakshtra*, MW 30-31) in medium deep soils of Scarcity Zone of Maharashtra is recommended under late monsoon situation.

3. Application of 20 t ha⁻¹ FYM alongwith nitrogen, phosphorus and potassium as per yield target equations for 35 t ha⁻¹ yield of brinjal, balance nutrition and maintaining the soil fertility is recommended for medium deep black soils of western Maharashtra.

Fertilizer Prescription Equations

With FYM		Without FYM	
FN	= 7.23 x T-0.52 x SN - 1.56 x FYM	FN	= 6.68 x T-0.56 x SN
FP ₂ O ₅	= 3.21 x T-3.10 x SP - 0.50 x FYM	FP ₂ O ₅	= 3.40 x T-3.28 x SP
FK ₂ O	= 4.74 x T-0.26 x SK - 0.74 x FYM	FK ₂ O	= 6.00x T-0.33 x SK

Where, FN, FP_2O_5 and FK_2O are fertilizer N, P_2O_5 and K_2O in $kg.ha^{-1}$ respectively, T is yield target $t ha^{-1}$ for wheat and SN, SP, and SK are soil available N, P and K $kg. ha^{-1}$ respectively. FYM is Farm Yard manure in $t ha^{-1}$.

4. Application of 5 $t ha^{-1}$ FYM with nitrogen, phosphorus and potassium as per yield target equation for 30 $q ha^{-1}$ yield of chickpea, balance nutrition and maintaining the soil fertility is recommended for medium deep black soils of Western Maharashtra.

With FYM			Without FYM		
FN	=	$2.51 \times T - 0.15 \times SN - 3.11 \times FYM$	FN	=	$2.75 \times T - 0.17 \times SN$
FP_2O_5	=	$2.71 \times T - 1.63 \times SP - 2.03 \times FYM$	FP_2O_5	=	$3.27 \times T - 1.97 \times SP$
FK_2O	=	$2.69 \times T - 0.09 \times SK - 3.09 \times FYM$	FK_2O	=	$3.05 \times T - 0.11 \times SK$

Where, FN, FP_2O_5 and FK_2O is fertilizer N, P_2O_5 and K_2O in $kg. ha^{-1}$, T is yield target in $q ha^{-1}$ and SN, SP and SK are soil available N, P and K in $kg. ha^{-1}$ and FYM is Farm Yard manure in $t ha^{-1}$.

5. Application of 50 percent recommended dose of NPK fertilizers to preseasonal sugarcane (170:85:85 N: P_2O_5 : K_2O $kg. ha^{-1}$) and its 3 successive ratoons (125:58:58 N: P_2O_5 : K_2O $kg. ha^{-1}$) through fertigation in 44 splits at weekly interval alongwith FYM 25 $t ha^{-1}$ and set treatment of acetobaeter and PSB to plant cane and trash management practice alongwith application of composite culture of biofertilizers (Acetobaeter, azotobactor, azospirillum and PSB each @ 1.25 $kg. ha^{-1}$) to ratoon is recommended for higher cane and CCS yield and to maintain soil fertility.

Fertigation schedule for preseasonal sugarcane and its ratoon :

Weeks after planting	Nutrients applied ($kg. ha^{-1}$)						No. of splits
	Plant Cane			Ratoon			
	N	P_2O_5	K_2O	N	P_2O_5	K_2O	
2 to 5 weeks	7	3	2	5	2	2	4
6 to 11 weeks	31	15	5	23	11	3	6
12 to 15 weeks	34	17	3	25	12	2	4
16 to 21 weeks	41	20	10	30	14	7	6
22 to 27 weeks	31	15	10	22	10	7	6
28 to 31 weeks	14	7	10	10	5	7	4
32 to 37 weeks	14	7	20	10	4	14	6
38 to 41 weeks	..	..	14	..	..	9	4
42 to 45 weeks	..	..	10	..	..	7	4
Total	170	85	85	125	58	58	44

6. Application of two foliar sprays of Phule Micro Grade-II 'B' (Fe 3%, Zn 5%, Mn 0.5%, B 0.5%, Cu 0.5%) @ 0.3% at 35 and 55 days after transplanting of onion alongwith general recommended dose of fertilizer (100:50:50 $kg. ha^{-1}$ N: P_2O_5 : K_2O + 20 $t ha^{-1}$ FYM) is recommended for increase in bulb yield, nutrient uptake, agronomic efficiency and higher monetary returns on shallow soils of Western Maharashtra.

7. Foliar sprays of Phule Micro Grade-II 'B' (Fe 3%, Zn 5%, Mn 0.5%, B 0.5%, Cu 0.5%) @ 0.3% at 55 to 65 days after planting of onion bulb alongwith general recommended dose of fertilizer (100:50:50 kg ha⁻¹ N:P₂O₅:K₂O + 20 t ha⁻¹ FYM) is recommended for higher seed yield, micronutrient uptake and monetary returns in medium deep soils of Western Maharashtra.

8. The application of Zinc Sulphate @25 kg. ha⁻¹ (incubated with 500 kg. FYM for one week and applied before sowing) alongwith recommended nutrients dose based on soil test values + FYM @ 10 t ha⁻¹ is recommended for higher grain yield and economic returns of maize on zinc deficient shallow soils of Sub-Montane Zone of Maharashtra.

9. One harrowing + sowing with seed drill and light harrowing + one hoeing at 3rd week and 25 kg. N through inorganic fertilizer (Urea) and 25 kg. N through organic manure through crop residue and *Leucaena* loppings or any green loppings (50% nitrogen through crop residue (byre waste) + 50% *Leucaena* lopping or any green loppings) + 12.5 kg. P₂O₅ through fertilizer (SSP) is recommended for *rabi* sorghum grown on medium deep black soils in Scarcity Zone of Maharashtra for getting higher grain and stover yield and monetary returns with minimum energy use and maintaining soil fertility.

10. Intercropping of Dill or Coriander or Fenugreek or Spinach in Bt. Cotton in 1:3 row proportions is recommended for higher yield and net returns in Northern part of Scarcity Zone (Rainfall zone 3 and 4) of Maharashtra.

11. Irrigation at 60 % crop evapotranspiration at every alternate day interval throughout the growth period is recommended for efficient water use in *Suru* sugarcane cultivated under subsurface drip irrigation system in medium deep black soils of Western Maharashtra.

12. Drip fertigation at 75% recommended dose (225:112.5:112.5, N: P₂O₅: K₂O kg/ha) of water soluble fertilizers in 18 weekly splits as per following schedule is recommended for higher yield, efficient water and nutrient use of hybrid tomato cultivated in medium deep soils of Western Maharashtra.

Fertilizer Schedule

Per cent nutrients applied in 18 equal weekly splits to hybrid tomato

Day after	Nitrogen (N)		Phosphorus (P)		Potassium (K)	
	%	Kg.	%	Kg.	%	Kg.
1-28 days (4 weeks)	15	34	20	23	15	17
29-56 days (4 weeks)	40	90	35	39	30	34
57-84 days (4 weeks)	30	68	35	39	35	39
85-126 days (6 weeks)	15	34	10	11	20	23
Total	100	225	100	113	100	113

13. Drip fertigation at 100% recommended dose (100:50:50, N: P₂O₅: K₂O kg./ha) of water soluble fertilizers in 13 weekly splits as per following schedule is recommended for higher yield, efficient water and nutrient use of *rabi* onion cultivated in medium deep soils of western Maharashtra.

Fertilizer SchedulePer cent nutrients applied in 13 weekly splits to *rabi* onion

Day after	Nitrogen (N)		Phosphorus (P)		Potassium (K)	
	%	Kg.	%	Kg.	%	Kg.
1-21 days (3 weeks)	20	20	30	15	10	05
22-42 days (3 weeks)	40	40	40	20	20	10
43-70 days (4 weeks)	30	30	25	12.5	40	20
71-91 days (3 weeks)	10	10	05	02.5	30	15
Total	100	100	100	50	100	50

Planting of summer chilli-watermelon crop sequence in medium deep soils of Western Maharashtra, for obtaining higher yield, net income and water use efficiency by using 40 micron silver black polythene mulch on raised bed (90 cm) at spacing of 60 X 45 cm. and be irrigated under drip irrigation at 70% ETc with 125% RDF through fertigation for both the crops as per the schedule given below.

Fertigation schedule for Chilli

Sr. No.	Crop stage	Days	No. of splits	Fertilizers in kg. ha ⁻¹		
				N	P	K
1.	Grand growth and branching	60	6	20	10	10
2.	Flowering	30	4	40	20	20
3.	Fruiting	60	6	40	20	20
Total		150	18	100	50	50

Fertigation schedule for watermelon

Sr. No.	Crop stage	Days	No. of splits	Fertilizers in kg. ha ⁻¹		
				N	P	K
1.	Grand growth	15	2	25	12.5	12.5
2.	Flowering	30	4	50	25	25
3.	Fruiting	15	2	25	12.5	12.5
Total		60	8	100	50	50

15. Planting of Napier hybrid with two eye bud rooted cuttings vertically or rooted slips at 90 x 60 cm. distance on medium deep soils of western Maharashtra is recommended for obtaining round the year higher green forage yield with net returns.

16. Plantation of preseasonal sugarcane (Phule 0265) at row spacing of 150 cm. and intra row spacing of 60 cm. using 30 to 35 days old Poly Tray settling is recommended for higher cane and CCS yield in medium deep black soils of Western Maharashtra.

17. The pre emergence application of 1500 ml. Pretilachlor 30.7% EC per hectare within 2 to 3 days after sowing and post emergence application of 70g. azimsulfuron 50% DF @ 0.035 kg. per hectare at 25 days after sowing in 500 liters of water is recommended for effective control of weeds and higher economical returns in drilled paddy cultivation of Sub-Montane Zone of Maharashtra.

18. The post emergence application of 200 ml. Bispyribac Sodium 10% SC per hectare in 500 liters of water at 15-20 days after transplanting with one hand weeding at 45 days after transplanting is recommended for effective control of weeds and higher economical returns in transplanted paddy of Sub-Montane Zone of Maharashtra.

19. Pigeon pea genotypes can be rapidly and reliably differentiated for *Fusarium* wilt resistance by analyzing the levels of OD phenols, activity profile of B-1-3-glucanase and amplification of genomic DNA with RAPD OPD OPD-08, SCAR-1 and ASSR-1 primers.

20. Set treatment of oilgochitosan @50ppm for 30 min at the time of planting followed by three foliar sprays 30.60 and 90 days after planting is recommended for sugarcane yield improvement in Suru season.

21. The process for preparation of 100 per cent Foxtail Millet flour cookies rich in calcium which can be stored up to 90 days at ambient, conditions without affecting their quality is recommended.

22. The following process is recommended for preparation of good quality jelly from Dragon fruit :

1. Extraction of juice by addition of water (fruit pulp: water, 1:1), boiling for 20-30 min and filtration through muslin cloth.

2. Addition of 550g sugar, 11g. pectin, 2g. Citric Acid and 300 ppm Potassium Metabisulphite (KMS) kg. of pulp extract and boiling upto 67°B.

3. Filling hot jelly in clean PET bottles, cooling and sealing. The jelly could be stored up to 90 days at ambient temperature without affecting quality.

23. To prepare good quality bottle gourd juice, following procedure is recommended.

- i. Harvesting of tender bottle gourd fruits.

- ii. Blanching of bottle gourd fruit pieces for 2 minutes.

- iii. Extract bottle gourd juice with the help of screw type juice extractor and strain it by using muslin cloth.

- iv. Add 600 ppm Sodium Benzoate in juice and pasteurize at 85°C for 5 min. The pasteurized juice is filled in pre-sterilized glass bottles and pasteurize the glass bottles for 15 min.

24. Seed treatment of *sunflower* with liquid Azotobacter and PSB biofertilizers @ 25 ml. each per kg. seed before sowing in rabi season and application of 40 kg. N and 20 kg. P₂O₅ per hectare is recommended for obtaining higher yield and saving of 25% of recommended N and P₂O₅ dose of chemical fertilizers under dryland conditions in the scarcity zone of Maharashtra.

25. A module for integrated management of sheath blight and stem rot of paddy is recommended as below.

* Seed treatment with carbendazim 50% WP @ 3 g followed by *Trichoderma harzianum* + *Pseudomonas fluorescens* mixture @ 5 g. each kg. ⁻¹ seed.

* Soil application of *Trichoderma harzianum* + *Pseudomonas fluorescens* mixture @ 25 g. each + Rice *palinj* (i.e. empty glumes) ash @ 100 kg. / R in nursery.

* Recommended dose of fertilizers i.e. RDF (NPK: 100:50:50 kg./ha) with or without use of briquettes.

* Three sprays of *Pseudomonas fluorescens* (0.2%) at 25, 35 and 45 days after transplanting.

* Need based 1 to 2 sprays of propiconazole 25% EC @ 10 ml./10 L. water at 15 days interval if incidence of sheath blight and/or stem rot disease is noticed.

26. Sowing of wheat crop during 16th November to 1st December is recommended to minimize the incidence of aphids, jassids and shoot fly and reduce the grain yield losses caused by them.

27. Spraying of profenophos 50 EC @ 20 ml. at 60 days after sowing followed by emamectin benzoate 5SG @ 4.4 g. at 80 days after sowing and lambda cyhalothrin 5 EC @ 10 ml. at 100 days after sowing is recommended for control of cotton pink bollworm.

28. It is recommended to undertake need based 2 to 3 sprays of combi-fungicides of Carbendazim 12% + Mancozeb 63% or Iprodione 25% + Carbendazim 25% @ 2 g./litre water at 15 days interval starting from first disease appearance in the scarcity zone of Maharashtra for effective and economical management of *Alternaria* leaf spot of safflower.

29. The location specific constants of rainfall Intensity-Duration-Frequency relationship developed for Rahuri station can be updated after 10 years and for Solapur station after 5 years.

30. The location constants K, a, b and d in rainfall intensity-frequency-duration relationship have been recommended as 3.58, 0.1878, 0.6 and 0.8408 respectively for Jalgaon region.

$$I = \frac{KT^a}{(t+b)^d}$$

Where, I = rainfall intensity, cm./hr; T = return period, yr; t = duration, h; K, a, b and d = Location specific constants.

31. The skirting of banana bunches with polypropylene bags (1.00 x 0.80 m.) is recommended for better quality fruits, maximum net income and B:C ratio.

32. Cultivation of broccoli in *rabi* season under 50 % red shadenet house with irrigation at 90% crop evapotranspiration and fertigation at 80% RD (150:100:175 kg./ha N : P₂O₅ : K₂O) through drip irrigation is recommended for obtaining higher yield and quality. However, 50% white shadenet house with irrigation at 90% crop evapotranspiration and fertigation at 80% RD (150:100:175 kg./ha N : P₂O₅ : K₂O) through drip irrigation is recommended for higher net income and benefit : cost ratio.

33. Summer Muskmelon planting under red shade net house (50% shading) by using silver-black plastic mulch (40 micron thickness) and daily drip irrigation @ 120% of crop evapotranspiration is recommended for higher yield, productivity and water use efficiency in Maharashtra.

34. Mobile and web based application “Weather Data Input and Retrieval System (WDIRS)” developed by Mahatma Phule Krishi Vidyapeeth is recommended for weather data input and collection at central point and to use the weather data for estimation of reference evapotranspiration and other scientific purposes.

35. The tables developed by Mahatma Phule Krishi Vidyapeeth for tahsils of Western Maharashtra are recommended for estimating weekly water and irrigation requirement of Sunflower, Sweet corn, Cotton and Tomato crops by different irrigation methods. Further, the maps developed in Geographical Information System (GIS) are recommended for estimating weekly water and irrigation requirement at any specific locations by different irrigation methods.

36. The pomegranate growers in Maharashtra earned gross returns of 21,427 Crores and net economic returns of 6,428 Crores from recommended Bhagwa & released Phule Bhagwa Super varieties released by MPKV, Rahuri during the period of 12 years (2004-05 to 2015-16). Further it revealed that an investment of one rupee in pomegranate research and extension generated income of 21 with 40 per cent Internal Rate of Return (IRR). Therefore, it is recommended that the substantial funds be provided for pomegranate research and extension activities.

37. The percentage increase in medium over low and high over medium adoption group, respectively in employment, production, income levels and reduction in per quintal cost was the result of adoption of recommended package of practices of MPKV, Rahuri for major cereals is as below.

Figures in per cent

Sr. No.	Crop	Technology Adoption Group	Increase in		Reduction in	
			Employment	Production	Income	Cost of cultivation
1.	Paddy	i. Medium over Low	16	15	12	4
		ii. High over Medium	26	26	29	7
2.	Wheat	i. Medium over Low	19	24	27	4
		ii. High over Medium	27	38	29	19
3.	Rabi Jowar	i. Medium over Low	10	13	9	2
		ii. High over Medium	24	56	47	9
4.	Bajra	i. Medium over Low	27	28	16	11
		ii. High over Medium	31	34	19	19

For the cost reduction and output maximization, it is recommended that the farmers shall adopt the recommended package of practices.

38. The increase in Minimum Support Prices (MSP) of pigeon pea, chick pea, black gram and green gram was less than increase in inputs prices during 1996-97 to 2014-15 by 19, 25, 35 and 20 per cent, respectively. Therefore, it is recommended that there is need to maintain the parity between Minimum Support Prices and input prices of pulses.

39. University paddy recommended technology is cent per cent adopted in College Development Block through Method demonstration, Result demonstrations and Group discussion. These extension methods should be replicated in other paddy growing areas for increasing adoption of recommended technology.

40. Principle component analysis reveals that, 99 per cent farmer of the total respondents under study were categorized in low and medium adopters groups, while technology decomposition analysis reveals that, among the University recommended technologies, nutrient management (40.90%), seed treatment (15.33 %), growth stage-wise irrigation management (13.55%), preparatory tillage (8.78%), time of sowing (8.71%) and improved variety (7.21 %) were the major contributing technologies in the wheat productivity. Hence, it is recommended that the farmers should adopt these technologies to the maximum extent to achieve the potential wheat yield.

41. Based on infestation of jassids and physio-chemical characters of cotton, the genotype GISV 272 is recommended as resistant source against jassid.

DIRECTOR OF RESEARCH
(B) DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA
Research Recommendations released during 2017-2018
(Approved by Joint Agresco-2018)

1. Crop Improvement :

Sr. No.	Name of Crop	Variety	Important features
I) Field Crops :			
1.	Paddy	SYE-503-78-34-2 (Tilak)	<ul style="list-style-type: none"> * Duration : 50% flowering 110-112 days with 140-145 Days to seed Maturity (Late Duration). * Fine grain type (Short Slender) having-Test weight-12.02-13.0 g. * Good cooking quality and intermediate Amylose content (22.26%), high milling (70.40%) and head Recovery (58.5%). * Moderately resistant to Stem borer and Plant Hopper. * Moderate reaction to neck blast.
2.	Soybean	AMS-1001 (PDKV Yellow Gold)	<ul style="list-style-type: none"> * In MVT AMS 1001 has shown 24.17% and 20.58% increase seed yield over state check MAUS-71 and JS-335 respectively. * In SMVT it has shown 36.01%, 30.58% and 33.82% increase seed yield over JS-335, JS-97-52 and MAUS-71 respectively. * In AICRP trial AMS-1001 has shown an increase in seed yield by 46.71% over JS 95-60, 38.29 % over JS 93-05 and 12.91% over JS-335. * Resistant to root rot/Charcoal rot and Yellow mosaic virus in natural field condition. * Moderate resistant to Girdle beetle and Stem fly. * Medium maturity duration (97 days). * Pod shattering resistance up to 10 days from harvest maturity. * Excellent Fatty acid profile. * Trypsin inhibitor content is comparatively less (35.79%).
II) Flower Crops :			
2.	Gladiolus	AKGL-04-16 (PDKV GOLD)	<ol style="list-style-type: none"> 1) Long straight spikes (103.5 cm.). 2) More number of florets (16.51). 3) Attractive pinkish yellow petals with red splash. 4) Ability to produce more corms and cormels. 5) More Vase life (10.25 days). 6) Resistant to <i>fusarium</i> wilt.

New Farm Implement/Machinery

Sr. No.	Name of farm implement/machinery	Important features
1.	PDKV small tractor operated seed ferti drill cum interrow cultivator.	PDKV small tractor (18.5-25 hp) operated seed ferti drill cum interrow cultivator is recommended for sowing and intercultural operation.
2.	PDKV small tractor operated crop residue disintegrator.	PDKV small tractor (18.5 -25 hp) operated crop residue disintegrator is recommended for <i>in-situ</i> crop residues management.
3.	PDKV developed power cutter.	Dr. PDKV developed power cutter is recommended to use for cutting sugar cane sets and forage.
4.	PDKV Rotary Onion Grader.	It is recommended to use PDKV Rotary Onion Grader (Capacity- 20 TPD) for size grading of onions.
5.	PDKV Jamun pulp extraction machine.	PDKV Jamun pulp extraction machine is recommended for the extraction of jamun pulp.

Production Technology

1) For getting higher seed yield and economic returns in soybean, foliar application of 2% 19:19:19 (NPK water soluble fertilizer) at pod initiation stage is recommended. (Dandge)

2) It is recommended that, Sowing of Kharif sorghum on four row 1.5m. BBF at 45 cm. by tractor is recommended for getting maximum yield, net returns and improved moisture conservation. (Nemade)

3) For obtaining higher grain yield and net monetary returns from drill rice in Eastern Vidarbha Zone of Maharashtra, sowing of drill rice at row spacing of 20 cm. and plant to plant distance at 10-15 cm. is recommended. (Dongarwar)

4) Under rainfed condition, to reduce the subsoil compaction due to use of rotavator, and to improve the moisture retention and other soil physical properties; and also for obtaining higher crop yield, it is recommended to use deep ploughing once in three years and use rotavator every years.

Weed Management

5) It is recommended that the post emergence application of Imazethapyr + Imazomox x 70 WG. 0.070 kg. a i /ha (100 g/ha) POE 20 DAS was the most remunerative and effective herbicide for controlling the weed flora and getting higher yield and economic returns in groundnut (JPD).

SSAC

6) The integrated application of 2.5 tones of Farm Yard Manure + 1.25 tones of Gypsum 15-20 DAS in Tied Broad Bed Furrow is recommended for improvement in soil properties , yield and monetary returns of soybean in deep black sodic soils of Purna valley of Vidrabha (Konde).

7) In deep black soils of Vidharbha, for obtaining higher grain, protein yield and monetary returns of Pigeon pea as well as improving fertility status of soil, application of 30 kg. K₂O + 20 kg. S ha⁻¹ in sulphur deficit soil alongwith recommended dose of 25 kg. N and 50 kg. P₂O₅ ha⁻¹ is recommended. ss. (Godpage).

Horticulture

8) It is recommended to apply 187.5:112.5:150 kg. NPK/ha for obtaining higher and better quality yield of capsicum under 50 per cent green shade net house conditions. Out of 112.5 kg phosphorus, 84.50 kg. should be applied through single super phosphate by soil application whereas, 187.5:28:150 kg. NPK/ha should be applied through urea, phosphoric acid and muriate of potash in twenty equal split doses once in a week through fertigation.

9) Banana variety Grand Naine (G-9) is recommended under Vidarbha region for successful cultivation, best quality and maximum yield returns. (Ramteke)

10) It is recommended for successful propagation of pomegranate through air layering the media combination of sphagnum moss and vermicompost 1:1 WV is effective for better success, survival and higher monetary return. (Raut)

11) For higher success of grafting in custard apple, ten months old rootstock during January to March is recommended. (Jadhao)

12) For getting maximum flower yield and economic returns from Jasmine (Jasminum Sambac), it is recommended to prune the plants during fourth week of December with medium pruning level (30 cm. above ground level) in Vidarbha region. (Chopde)

Plant Protection Entomology

13) For effective management of pulse beetle it is recommended to keep 80 tablets (weighing 0.5 g. each) per quintal in stored mungbean. (PKRATHOD)

Agril. Engg.

14) The PDKV process for preparation of smooth textured jam from beetroot that includes preparation of pulp by pressure cooking and grinding, adding it with sugar, lemon juice and preservative and heating for 30 to 40 minutes is recommended. (Pardeshi)

(C) Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani.
46th Joint Agresco Recommendations Based on Research Work 2017-2018

A) Varsity :

1. Parbhani Shakti (PVK1009)

Kharif sorghum variety Parbhani Shakti (PVK 1009) having high grain yield, Zinc and Ferrous rich, moderately tolerant to grain mold, shoot fly and stem borer is recommended for release in *Kharif* sorghum growing areas of Maharashtra.

2. Cotton : (PA 740)

Desi cotton variety PA 740 having superior fibre properties with tolerance to sucking pests, bacterial blight, alternaria and grey mildew is recommended for release in Marathwada region.

3. Tamarind : Shiwai

Regular bearer and less susceptible to disease, the cultivar shiwai is recommended for planting in rainfed areas of Maharashtra State.

B) Implement :

1. Single bullock operated planter

VNMKV developed Single Bullock operated Planter is recommended for sowing.

Salient features:

- * Inclined plate multi crop planter is single bullock operated.
- * Actual field capacity 0.189 ha/hr.
- * Suitable for small and marginal farmer.
- * Suitable for Relay cropping.

2. Bullock operated 3 tyne hoe with furrow opener

VNMKV developed Three tyne hoe with furrow opener is recommended for intercultivation in BBF sowing.

Salient features :

- * Useful for opening furrows and hoeing in BBF sown field.
- * Actual field capacity 0.20 ha/hr.
- * Weeding efficiency - 84%.
- * Saving in labour cost 60-70%.

3. Tractor operated BBF planter with sprayer

VNMKV developed tractor operated five row (BBF) raised bed planter cum sprayer is recommended for sowing and spraying.

Salient features :

- * Used for Broad Bed sowing & simultaneously weedicide spraying.
- * 5 Rows of seed with fertilizer can be sown with 45 HP tractor.
- * Can be used for insecticide spraying in BBF sown field.
- * Effective field capacity for Soyabean is 0.49 ha/hr.

4. Bullock drawn solar operated high clearance sprayer Salient features:

VNMKV developed Bullock drawn solar operated sprayer is recommended for spraying of weedicide/pesticide.

- * Operated on solar energy, hence no pollution sprayer.
- * Height of boom can be adjusted as per requirement of crop height.
- * Total discharge 7.0 to 9.0 Lit./mm. through 12 nozzles.
- * Saving in man-hr requirement time & money for spraying operation.
- * Fully protected spraying.
- * Draft requirement 34 Kg. with Actual field capacity of 1.13 ha/hr.

Agronomy :

1. For maximizing the pearl millet yield under late sown situations, sowing of pearl millet on 25th July \pm 5 days application FYM @ 5.0 t/ha + RDF (60:30:30 NPK Kg./ha.) + NPK foliar spray (19:19:19 Grade) @ 0.5% (50g/10 lit. of water) at 20-25 days after sowing is recommended for Marathwada region.

2. The scheduling of irrigation at 75 mm. CPE (February 15 days, March 10 days, April 7 days interval) through flood irrigation method at 60 mm. depth is recommended for getting maximum yield and monetary return for summer pearl millet in Marathwada region.

3. Foliar application of FeSO_4 @ 0.75% (75g./10 lit. of water) at 25-30 days after sowing is recommended for higher yield and monetary return in *Kharif* pearl millet for Marathwada region.

4. For lowest para wilt seedling population, highest seed cotton yield and economical benefits, sowing of pre-seasonal Bt Cotton crop after 20 May under Flood irrigation and after 30 May under Drip irrigation or with reduction of temperature below 39^o C is recommended for Marathwada region.

5. For highest seed cotton yield and higher economic returns of *hirsutum* cotton under high density planting System, de-topping at 75 days after sowing or 90 days after sowing or spraying of Mepiquate Chloride 5%. AS @ 250 ppm (25 ml/10 lit. water) at 75 days after sowing is recommended.

6. For highest cotton equivalent yield, gross monetary returns, net monetary returns and weed control efficiency in cotton + soyabean (1:1) intercropping system, Pre-emergence application of Oxyflourfen 23.5% EC @ 0.1 kg./ha. a.i. followed by hoeing at 6 weeks after sowing is recommended.

Crop Protection :

7. For management of pod borer complex of pigeonpea the first spray of chlorantraniliprole 18.5 SC 3 ml./10 lit. of water at 50% flowering stage and second spray of flubendiamide 39.35 SC 2 ml./10 lit. of water at pod development stage are recommended.

8. For management of pigeonpea pod fly, it is recommended to fix 1 maggot/20 pods or 5% pod damage or 2% seed damage from randomly selected pods as Economic Threshold Level.

9. For Management of downy mildew of pearl millet seed treatment of bio-agent *Pseudomonas fluoresces* (MYS-14) @ 8g./kg. seed is recommended.

Agril. Engineering :

10. For open space flooring of loose housing cattle barn, a section with 40 cm. depth filled with compacted Murum 20 cm. followed by 10 cm. plain cement concrete and single vertical layer of red brick construction in cement mortar 1:6 is Recommended.

11. VNMKV developed process for the production of better quality foam mat dried Kesar mango leather by using foam mat drying technique, whipping mango pulp for 2 min by incorporation of 3% GMS and drying in hot air oven at 60°C with 6 mm. thickness is recommended.

Food Technology :

12. 0.5% Paneer doda fruit concentrated extract & 0.3% sucralose is recommended for preparation of carbonated paneer doda drink.

13. For preparation of nutritional and nutraceutical capsules, the powder of leaves, flower, and pods of drumstick is recommended.

14. Incorporation of 0.2 percent guar gum is recommended for improvement of spreadability of Soyabean butter.

Community Science :

15. VNMKV verified low cost improved workstation design for household papad and vermicelli enterprise is recommended for improving efficiency and health of women.

16. VNMKV published book entitled Balavikasachi Uthkrusta Tantre-Palakansati Margadashika is recommended as it is based on Child Care, Development. Causes & Remedies of Development Disorders for educating parents of all sections and school teachers as it would serve as the best guid to them for guiding and taking needed action for well being of children.

17. It is recommended to use 10% mango kernel starch on cotton and silk fabrics as thickening agent for the purpose of screen printing.

18. It is recommended that VNMKV, Parbhani developed WRG weaning food prepared using wheat 20% rice 20% green gram dhal 27%, soya dhal 13% (all roasted), carrot powder 10%, skim milk powder 8%, coriander leaves powder 1% and cumin seed powder 1% rich in energy, protein, iron and calcium by mixing with warm water or milk to feed infants of 7-9 months age group.

19. It is recommended to use VNMKV, Parbhani developed Multipurpose Functional Food mix as a breakfast food to control blood glucose and cholesterol levels.

Soil Science and Agricultural Chemistry :

20. It is recommended that cattle of Parbhani district of Marathwada region need to be supplemented with copper, manganese and zinc by formulating area specific mineral mixture using highly bio-available mineral salt to meet the nutrient deficiency of Zn, Cu and Mn which were found deficient in soil, fodder and serum of this region.

21. Seed treatment of liquid zinc solubilizer *Pseudomona striata* @ 100 ml/10 kg seed + application of ZnSO₄ Raizobium seed treatment 30 kg. ha⁻¹ is recommended to soyabean alongwith recommended dose of fertilizers (30:60:30 NPK kg ha⁻¹) for enhancement of soyabean seed yield, monetary return and improvement hi soil properties.

Water Management :

22. For higher grain yield and net monetary returns of post *Kharif* maize it is recommended to schedule alternate day drip irrigation at 80% cumulative pan evaporation through inline lateral laid at 120 cm apart for paired rows (45x30-75cm) and drip fertigation of 113:57:57 NPK kg/ha; N in 8 equal splits @ 12.5% at an interval of 10 days from 10 to 80 days after sowing while P and K in 2 equal splits at sowing and 30 days after sowing. The fertigation schedule alongwith the quantity of soluble fertilizer required is given below :

Time of application	Fertilizer dose (113:57:57 NPK kg/ha.)			Soluble fertilizers (kg/ha.)		
	N	P	K	Urea	0:52:34	0:0:50
At sowing	..	28.5	28.5	..	55	19.6
10 DAS	14.13	..	..	..	30.5	..
20 DAS	14.13	..	..	30.5	..	..
30 DAS	14.13	28.5	28.5	30.5	55	19.6
40 DAS	14.13	..	..	30.5	..	..
50 DAS	14.13	..	..	30.5	..	..
60 DAS	14.13	..	..	30.5	..	..
70 DAS	14.13	..	..	30.5	..	..
80 DAS	14.13	..	..	30.5		

Dry Land :

23. Application of cetearyl alcohol @ 20 mg/sq. m. at an interval of 10 days is recommended for control of water loss due to evaporation from farm pond.

24. In medium to deep black cotton soils of Marathwada region to manage/minimize reddening of irrigated Bt cotton and to obtain higher seed cotton yield and net monetary returns per hectare it is recommended to apply RDF 125% through fertigation (100: 50 : 50 NPK kg/ha.) along with two sprays of micronutrients grade-II mixture @ 0.5% + potassium schoenite @ 1.0% at 55 and 70 DAS respectively or to apply 75:37.5: 37.5 NPK kg/ha. through soil application and application of 75:37.5:37.5 NPK kg/ha. through fertigation.

Bio Technology :

25. It is recommended to use fluorescent labeled probe based 'VNMKV BBTV-ARRAY' Molecular detection kit for rapid, reliable, precise, cost effective and easy indexing of Banana Bunchy Top Virus in mother plant as well as tissue culture raised banana plantlets.

Extension Education :

26. Infestation of pest and diseases, indebttness, drought, credit recovery pressure from private money lender and daughter marriageable age were the causes of farmers distress in Marathwada region. It is recommended to provide psychological counselling facilities at village level and to promote community marriages by government and non government agencies among the farming community.

27. Drought, sole cropping, indebttness, marriageable age of childrens and illness were the main causes of farmers suicide in Marathwada region. It is recommended to promote integrated faming system and to increase the farmers participation in water conservation practices by various extension agencies among the marginal and small farmers of Marathwada region.

28. Knowledge and adoption about nutrient management and disease management was observed meagre among sericulture growers in Marathwada region. It is recommended that the various extension agencies should emphasis more on above technologies.

**(D) Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth
Dapoli 415 712, Dist. Ratnagiri**

RESEARCH RECOMMENDATIONS OF 2018

I) Natural Resource Management:

Soil fertility and plant nutrition-

1. It is recommended to apply higher dose of fertilizers 3000:1000:1000 g,

N: P₂O₅: K₂O alongwith 50 kg. FYM to above 10 year/plant for getting higher yield and B:C ratio in Alphonso mango under lateratic soil of Konkan region.

2. It is recommended to apply Konkan Annapurna Briquettes 175 kg/ha. to Kharif rice for getting higher yield and economic returns due to balanced supply of nutrients throughout the crop growth period.

3. For getting higher yield of cashewnut, it is recommended to apply two sprays of 0.1% CuSO₄ + 0.05% lime, one each at flowering and fruit set alongwith recommended dose of fertilizers in lateritic soils of Konkan.

Rainfed and dryland field crops-

1. It is recommended to grow rice hybrid Sahyadri-3 in Kharif season by sowing the nursery during 23rd meteorological week (4th to 10th June) and transplanting 15 days old seedlings for obtaining higher yield and net returns under South Konkan conditions.

2. For obtaining higher yield from Sugarcane in South Konkan region, it is recommended to use the seedlings of single bud set grown in the media comprising of Coco-peat and vermi-compost in 1:1 proportion along with *Acetobacter* culture @ 5.00 g. per kg.

3. It is recommended to grow okra in Red ferrogenous Soil of Konkan region at a spacing of 120-45x15 cm in paired row under drip irrigation with plastic mulch and be irrigated daily by following the given schedule with RDF (100:50:50) through WSF in seven equal weekly splits through drip irrigation to achieve higher productivity and economic returns.

Crop period (weeks)	Water application (Lit/m. length)
1 to 5	52
6 to 9	50
10 to 13	75
14 to 17	47

Integrated Farming System-

1. Sahyadri -3, Sahyadri-4, Sahyadri-5, Karjat-3, Karjat-5, Karjat-8 and Ratnagiri-3 rice hybrids/varieties are recommended to grow under organic package for getting higher yield and economic returns during Kharif season.

Groundnut varieties Konkan Gaurav, TG 26 and JL 776 are recommended to grow under organic package for getting higher yield and economic returns during Rabi-hot weather season.

2. It is recommended that rice-groundnut, rice-sweetcorn and rice-dolichos bean systems be grown under organic package of practices to get higher yield and economic returns from rice based cropping systems.

3. In North Konkan Coastal Zone for higher productivity and profitability from Kharif Rice- Rabi Cowpea system, it is recommended that both crops be supplied with 75 % RDF, crop residue @ 2 t and PSB @ 3.5 kg. ha⁻¹ alongwith Glyricidia green leaf mannuring @ 3 t and *Azospirillum* @ 3.5 kg. to rice and *Rhizobium* @ 3.5 kg. ha⁻¹ to cowpea, respectively.

Micronutrients-

1. It is recommended that the application of 20 kg. $MgSO_4$, 12.5 kg. $ZnSO_4$ 10 kg. Borax through soil and foliar spray of $FeSO_4$ @ 0.5% nutrients along with recommended dose of fertilizer (FYM @ 10t +100:50:100 kg. NPK ha⁻¹) to get higher tuber yield and more economic returns from cassava in Konkan region.

B) Horticulture :

1. For getting higher retention, yield and reducing spongy tissue percent, spraying of solution containing combination of derivatives of L-Ceystein (N-ATCA) (10%) and Folic acid (0.2%) at 50% flowering (1 ml per liter of water), pea stage (1.5 ml/liter), egg stage (2 ml/liter) and at 75 days after fruit set (2 ml/liter) is recommended.

2. For getting higher retention and yield in cashew, spraying of solution containing combination of derivatives of Thioproline (5.0%), Folic acid (0.1%) and Brassinolides (500 PPM) at nut set (1 ml per liter of water), 15 days after 1st spray (1.5 ml/liter) and 15 days after 2nd spray (2ml/liter) is recommended.

3. It is recommended to cultivate cinnamon, nutmeg, black pepper, banana and pineapple as an intercrops under Konkan agro-climatic condition, for getting the higher yield and returns from coconut based multistoried cropping system.

4. It is recommended to grow Banana + Pineapple + Elephant foot yam as mixcrop to get early returns in young Oil Palm garden (up to 5 years) under South Konkan region.

5. To get more success and good growth of nutmeg and kokum grafts and black pepper cuttings it is recommended to use closed propagation chamber for propagation.

C) Animal and Fisheries Sciences :

1. It is recommended that the supplementation of fresh *Azolla pinnata* @ 1.5 kg. with concentrate feed for improving growth rate of crossbred calves.

2. It is recommended to apply 2% of buffalo dung (dry) as organic manure in mixture of sand and soil in the ratio of 1:1 as a fertilizer media under 800 lux light intensity for better lengthwise growth and biomass of aquatic plant, *Vallisneria*.

3. It is recommended that the Sword-tail seed (*Xiphophorus hellerii*) should be stocked at the rate of 150 number/m² in a cage placed in rain-fed farm-ponds and fed at the rate of 8% of body weight having 32% protein for better growth.

4. It is recommended to use Shatavari powder at the rate of 3% in the *Fifoo* feed developed by Dr. BSKKV for better growth of Guppy (*Poecilia reticulata*) fishes.

5. It is recommended to incorporate the *Spirulina* powder at the rate of 3% as a feed supplement in the diet of (*Oreochromis niloticus*) for better growth.

6. It is recommended to mix 2 g./Kg. of dry banana powder as prebiotic with 0.5 g./Kg. of any probiotic in the feed for better growth and survival of *Catla* fry.

7. It is recommended to mix 2 g./Kg. of dry banana powder as prebiotic with 0.5 g./Kg. of any probiotic in the feed for better growth and survival of *Tilapia* fingerlings.

8. It is recommended to use 33% *Enteromorpha* supplemented feed @ 5% for better growth and survival of rabbit fish (*Siganus canaliculatus*) fry.

9. It is recommended to use brackish water of 0-5 psu salinity for seed production of *Tilapia* in coastal areas.

D) Basic Sciences, Biochemical & Biotechnology Plant, Animal and Fish Biotechnology :

1. Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth developed tissue culture technology recommended for micropropagation of Red banana.

Food Science and Technology-

2. It is recommended of prepare most acceptable quality ginger shrikhand having shelf life of two days at ambient atmospheric conditions and six days at refrigerated conditions, as per method developed by DBSKKV, by using mix youghurt culture of *Streptococcus thermophilus* & *Lactobacillus bulgaricus* @ 1% of original milk (w/w) and by addition of ginger juice as flavouring agent @ 5.0% (w/w) of Chakka.

3. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of edible film from 15% cassava starch is recommended.

4. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of edible film from 15% Jackfruit seed starch is recommended.

5. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of Soya milk fortified with cow milk (25:75), Paneer cubes is recommended.

6. Process developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth for preparation of dehydrated Soya milk fortified with cow milk (25:75), Paneer cubes of 50°C by microwave convection dryer is recommended.

7. It is recommended to prepare the lemonade cashew apple spicy nectar by using 20 percent cashew apply juice, 3 percent lime juice and 1 percent ginger juice with maintaing 15°B TSS as per the process developed by Dr. BSKKV Dapoli.

8. Suvarna variety released by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, is recommended for preparation of processed bottled mango pulp.

9. It is recommended to use batter developed by Dr. B. S. Konkan Krishi Vidyapeeth Dapoli for preparation of less fat containing and good quality Pangasius fish fingers “Pankaj” for consumption.

10. It is recommended to prepare most acceptable quality chhana podo, having shelf life of four days at ambient atmospheric conditions, as per method developed by DBSKKV, Dapoli from buffalo milk by addition of alphonso mango pulp @ 20% of chhana (W/W).

11. It is recommended to prepare most acceptable quality kalakand, having shelf life of six days at ambient atmospheric conditions and ten days at refrigerated conditions as per method developed by DBSKKV, by incorporation of Kesar mango pulp @ 7.50% (W/W) of initial quantity of milk.

12. It is recommended to prepare most acceptable quality mango milk pudding, having shelf life of ten days at refrigerated conditions, as per method developed by DBSKKV, by using gelatin as stabilizer @ 2.0% and alphonso mango pulp as flavouring agent @ 15% of original milk (w/w).

13. It is recommended to prepare most acceptable quality Pantua, having shelf life of 12 days at atmospheric conditions and 16 days at refrigerated conditions, as per method developed by DBSKKV, by incorporation of date (*Phoenix dactylifera* L.) paste @ 20% of pantua mix (w/w) and soaking for a period of 5 hrs. in sugar syrup.

E) Plant protection :

Plant pathology-

Phytosanitation along with soil application of *Trichoderma harzianum* @ 250 g/plant combined with three sprays of Bordeaux mixture (1%) first sprays at the onset of monsoon, followed by two sprays at monthly interval are recommended for economical management of *Phytophthora palmivora* fruit drop of sapota, in Konkan region of the Maharashtra State.

Agricultural Entomology :

1. The application of recommended dose of fertilizers + azadiractin + micronutrients (Boron, Manganese, Mylybdenum) through briquettes is recommended for the integrated management of coconut eriophyid mite. The briquettes should be applied @ 4.5 kg/palm/year in three splits in the months of June, October and February.

2. For management of mango hopper it is recommended to spray buprofezin 25SC @ 0.05% (2 ml/lit) at the time of third spray in the University recommended spray schedule.

3. For management of cashew apply and nut borer it is recommended to spray (0.05%) of Dichlorvos 76 EC 10 ml./10 lit. of water after the initiation of infestation.

4. For the management of rice stem borer and leaf folder, two applications of granular insecticides Cartap hydrochloride 4 G @ 18.75 kg. per ha. are recommended. The first application be given in the nursery 2-3 days before transplanting followed by second application at 30-35 days transplanting or as per the requirement.

F) Agricultural Engineering :

Agri Processing Engineering-(Farm Structure and EOS) —

1. The Process Technology for preparation of “KKV Crisp” using Twin Screw Extruder from maize, rice and horse gram in the proportion of 50:30:20 is recommended.

2. DBSKKV developed ‘Bamboo Kutir’ technology is recommended for Agro Tourism.

3. Dr. B. S. K. K. V. Developed combine unit of carbonization and liquefaction of biomass is recommended to produce biomass charcoal and crude bio-oil.

Soil and water conservation Engineering-

4. The DBSKKV Developed low cost real time soil moisture sensor based irrigation controller is recommended for irrigation of various crops.

5. It is recommended to irrigate the shallow and deep rooted crops in lateritic sandy clay loam soils of Konkan region by installing subsurface lateral at 15 to 30 depth according to crop root zone depth.

Farm Machinery and Power-

1. Indirect method of predicting oxygen consumption rate from the calibration charts is recommended to use (with ± 10 percent error). The following equations are recommended to predict oxygen consumption rate (VO_2) From heart rate for different age groups of male and female workers of Dapoli region.

Age group years	Equation	Correlation Coefficient (r value)	Regression Coefficient (R^2)
Male			
18-30	OCR=0.019HR-1.2788	0.91	0.83
30-40	OCR=0.0195HR-1.2814	0.90	0.81
40-50	OCR=0.0208HR-1.4861	0.95	0.90
Female			
18-30	OCR=0.0123HR-0.8443	0.93	0.86
30-40	OCR=0.0125HR-0.8724	0.93	0.86
40-50	OCR=0.0122HR-0.8386	0.90	0.81

OCR-Oxygen Consumption Rate.

HR- Heart Rate.

G) Social Sciences :

Agril. Economics-

1. Mango growers apply plant protection chemical indiscriminately and incur extra expenditure of Rs. 5718/ha. It is recommended to educate mango growers to follow plant protection schedule of the University through extension agencies for cost minimization and reduce negative externalities of chemicals.

2. A) In Konkan region the post-harvest losses in mango estimated to Rs. 1100/- crores. Hence, It is recommended to set up mechanical post-harvest unit for mango at tehsil places.

B) In South Konkan region regulated market is existed for Ratnagiri and Sindhudurg district. However considering increase in the area under mango in these two districts it is recommended to establish market yard for mango under APMC in each tehsil.

C) It is recommended to train the farmers through extension agencies regarding changes in post-harvest handling and marketing management in mango.

3. After 7 years if rejuvenation of old and senile mango orchards in South Konkan region, per hectare incremental yield was 29.31 q. and incremental net returns were Rs. 53,189/-. Similarly, per hectare saving in expenditure on labour of spraying and harvesting of fruits was 32.10 percent. Therefore, it is recommended that mango growers in producing area be trained by extension agencies to adopt rejuvenation technology of mango orchards of DBSKKV, Dapoli for higher yield and gross income.

H) Variety and implements:

1. It is recommended to release nutmeg variety 'Konkan Sanyukta' monoecious, bold nutmeg genotype with high nut yield for Konkan region of Maharashtra.

2. It is recommended to release 'IISR Cassia' maximum bark yield, bark oil and low in coumarin variety of cassia for Konkan region of Maharashtra.

3. Women friendly ergo refined Dr. B.S.K.K.V. Cono weeder is recommended for weeding in paddy field.

4. BARCKKV-13 (Trombay Karjat Kolam) high yielding rice variety having dwarf stature with slender grain type with good grain quality, mid late duration is proposed to release for commercial cultivation in Konkan region of Maharashtra State.

रक्ता एक
TABLE I

(ii) Financial Requirements :

Sr. No.	Details	Rs. in Thousand											
		Actuals Expenses 2018-19		Budget Estimates 2019-20		Revise Estimates 2020-21		Budget Estimates 2021-22					
		Non-Plan (2)	Plan (3)	Total (4)	Non-Plan (5)	Plan (6)	Total (7)	Non-Plan (8)	Plan (9)	Non-Plan (10)	Plan (11)		
A. Classification of Work													
1. Subsidiary Grants to													
Agriculture Universities													
(A)	M.P.K.V. Rahuri	2960300	560100	3520400	2996300	483600	3479900	4705700	527500	5038595	400000		
(B)	Dr. P.D.K.V. Akola	2054248	68000	2122248	2408990	89956	2498946	2692992	348000	4876825	1039521		
(C)	M.P.K.V. Parbhani	1532067	102062	1634129	2366129	155000	2521129	2534020	349500	2981840	521516		
(D)	Dr. B.S.K.K.V. Dapoli	1139392	8833810	9973202	1694540	13586826	15281366	1571597	170569	1972984	290000		
(E)	Subsidiary Grants to M.C.A.E.R., Pune	34748	..	34748	12205	..	12205	14664	..	34552	..		
	Rajashri Chhatrapati Shahu Maharaj Shikshan Shulk Shishyavrutti Yojana (EBC)	..	134000	134000	..	421700	421700	..	200000	..	350000		
	Dr. Panjabrao Deshmukh Vastigruh Nirvah Bhatta Yojana (AGR)	..	..	..	..	..	..	..	5000	..	100000	
(F)	Loan to Agriculture Universities	..	..	..	..	..	..	..	..	..	..
(A) Gross Amount		7720755	9697972	17418727	9478164	14737082	24215246	11518973	1645569	14904796	2701037		
Minus Recovery		..	..	..	..	..	..	..	..	..	..
Total Net		..	..	..	..	..	..	..	..	..	..
B-Financial Tools		..	..	..	..	..	..	..	..	..	..
Order No. Major Head		..	..	..	..	..	..	..	..	..	..
D-3 2415		7720755	9697972	17418727	9478164	14737082	24215246	11518973	1645569	14904796	2701037		
D-3 6216		..	..	..	..	..	..	..	..	..	..
Total Gross		7720755	9697972	17418727	9478164	14737082	24215246	11518973	1645569	14904796	2701037		

Agricultural Statistics

Reliable Agricultural Statistical data is required for agricultural input availability, Agriculture Research and Extension, Trade of Agriculture produce, Agricultural planning etc. Such a information is used to decide import export policy and for planning self sufficiency etc. Field work of crop cutting experiment are primarily done by Agriculture assistant, revenue circle officers & Gramsevak while Supervision of crop cutting experiment is mainly done by officers from Agricultural Department, Revenue Department and Rural Developmet Department. The Compilation and analysis report of such a collected information is done by Statistics Department.

The agriculture in Maharashtra State is mainly depends on Southwest monsoon. The data of rainfall at various places is measured by Automatic Weather Station (AWS) established at Circle level. At present there is one AWS station at a Revenue circle & accordingly total 2119 stations are working in the state. Collected rainfall data during the period of June to October is submitted to Government on daily basis.

For quick availability of season wise, district wise sowing area of crops the statistics section collects weekly crop condition report from all divisional offices, on the basis of collected information weekly reports of weather, sowing and crop condition were finalised on each Friday and submitted to Government.

National crop insurance scheme is implemented from rabi 1999-2000 up to rabi 2015-16, at present it is no more in execution. Pradhan Mantri Fasal Bima Yojana is being implemented in all districts of the state since kharif 2016 for notified crops.

A) Scheme- Agricultural Production

There are number of schemes being implemented in the state which helps in accelerating and increasing the agricultural production. Based on the final estimates of year 2017-18 to 2020-21 and 2nd Advance Estimate of 2021-22 (Kharif + Rabi) crop wise target and achievement of production are as below :—
(Production in Lakh mt.tonnes)

Sr. No.	Name of Crop	2017-18 (Final)		2018-19 (Final)		2019-20 (Final)		2020-21 (Final)		2021-22 (2nd Adv. Est) (Kharif+Rabi)	
		Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement	Target	Achievement
1	Rice (kharif)	45.63	26.68	38.4	31.44	34.10	27.02	34.88	30.27	37.20	32.37
2	Wheat	20.49	18.85	20.49	12.49	17.23	17.93	17.23	20.71	17.23	16.62
3	Kh. Jowar	14.4	5.47	5.75	4.30	4.10	2.73	6.00	3.81	6.60	1.73
4	Rb. Jowar	17.15	18.42	20.02	7.68	19.11	15.92	19.57	18.05	20.93	13.62
5	Bajra	14.5	6.69	9.43	3.32	6.58	5.12	6.83	9.06	6.50	4.58
6	Ragi	1.16	1.06	1.14	0.94	2.03	0.87	1.88	0.94	2.03	0.94
7	Maize (Kharif + Rabi + Summer)	33.6	31.25	38.74	17.66	40.09	19.60	38.47	35.88	43.01	30.55
8	Total Kharif Cereals	105.78	61.77	85.02	53.86	78.52	46.48	80.93	70.50	84.91	63.08
9	Total Cereals (Rabi)	40.92	46.36	48.34	24.01	44.43	41.84	43.55	47.49	48.02	37.53
10	Kharif Pulses	28.82	15.84	28.82	12.34	20.85	15.37	22.01	19.74	23.47	14.48
11	Rabi + Summer Pulses	19.49	21.01	21.4	14.49	21.41	23.12	21.41	24.71	23.10	28.03
	Total Pulses (Kharif + Rabi + Summer)	48.31	36.84	50.22	26.83	42.25	38.49	43.42	44.44	46.56	42.51
	Total Foodgrains (Kharif + Rabi + Summer)	196.85	146.28	187.17	106.30	167.40	130.67	170.11	166.46	182.01	143.14
12	Cotton (Lint)	102.6	60.94	106.4	65.93	105.88	66.39	107.40	101.10	105.88	71.12
13	Sugarcane	780	831.38	820	897.71	913.50	693.13	822.00	1116.42	902.50	1112.00
14	Oilseeds (Kharif + Rabi + Summer)	56.9	42.08	52.88	48.85	57.70	51.78	58.22	67.19	60.90	56.91

* Production of Cotton in lakh bales of 170 kg. each.

Note- 1) For the year 2017-18 to 2020-21 production figures are based on final estimates.

2) For the year 2021-22 (Kharif + Rabi) production Figures based on 2nd Advance estimates.

(B) Scheme of Timely Reporting of Agricultural data (100%)

In order to provide accurate and timely statistics of the major crops in the state, this scheme was implemented with 100% financial support by Government of India from the year 1968-69. After that, from 1979-80 to 2006-07 50% of the total expenditure was received from the Central Government and the remaining 50% was received by the State Government. This scheme is being implemented in the state from the year 2007-2008 as 100% centrally sponsored scheme. Under the scheme grants are made available to cover the wages and allowances of the employees/staff members who have been approved for regular work in the scheme.

The main objective of the scheme is to prepare the final estimate of the area by collecting survey wise estimates of the main crop area and submit it to the Central and State Government. The use of the final information of the seasonal area is used for the implementation of various Government policies. Under the scheme, the statistics of the 20% of the selected villages in the state are collected by Regional employees of Revenue Department by sample card issued by the Agriculture Department. These data are collected by the collector wise at the district / department level and the estimates of crop production/district wise/taluka wise area are being finalized by the end of the year. Similarly, to finalise classification of 9 types of land as per its use above type of sample cards collected from Revenue Department and estimates are finalised.

Physical and Financial Targets and achievement

(Rs. in Lakh)

Sr. No.	Item	2020-21		2021-22		2022-23
		Target	Achievement	Target	Achievement	Target
1.	Training classes for supervisory employees	16	16	16	--	16
2.	Random Village Selection	8800	8800	8800	8800	8800
3.	Examination & Scrutiny of Table	54000	Work in Progress	54000	Work in Progress	54000
4.	Collection & Abstraction of Table	54000	Work in Progress	54000	Work in Progress	54000
5.	Preparation of Report	5	4	5	--	5
6.	Financial Targets and achievement	395.00	237.40	400	158.66 Upto December, 2021	460.00

**(C) Scheme for improvement in Crop Statistics
(100% Centrally Sponsored Scheme)**

The scheme was started by the Central Government with 100% subsidy in the year 1975 and after the year 1979-80, 50% of the total expenditure was received every year till 2006-07. The scheme is implemented as 100% centrally sponsored scheme in the state since 2007-08. The nature and planning of the scheme is communicated by NSSO Faridabad Accordingly, in all districts considering three seasons, 1320 villeges supervised for crop inspection by Talathi and crop cutting experiments conducted by circle inspectors (Kharif and Rabbi, 1300 experiments) are equally supervised by Agricultural Supervisors and officers of NSSO. By studying and discussing such a information high-level committee suggests improvement crop statistics every year.

The main purpose of the scheme is to obtain statistics by monitoring the crop harvested experiment by supervising the planned crop harvesting program by the field Inspector and Gramsevak, registered by the field surveyed in the crop survey and to try to bring about the improvement in the area of crop yields and the method of preparation of estimates of major crops based on the information available through observation and statistics.

Under the scheme grants are made available to cover the wages and allowances of the employees/staff members who have been approved for regular work in the scheme.

Physical and Financial Targets and achievement

(Rs. in Lakh)

Sr. No.	Item	2020-21		2021-22		2022-23	
		Target	Achievement	Target	Achievement	Target	Achievement
1.	Training classes for supervisory employees	16	16	16	8	16	..
2.	Random Village Selection	8800	8800	8800	8800	8800	..
3.	Regional work check						
	A) Area villeges	1320	1172	1320	295	1320	..
		(Kh+Rb+Su)		(Kh+Rb+Su)		(Kh+Rb+Su)	
	B) Crop cutting experiment	1300	1268	1300	262	1300	..
				(Kh+Rb+Su)		(Kh+Rb+Su)	
4.	Village sample No. 11 Inspection	1320	1172	1320	295	1320	..
				(Kh+Rb+Su)		(Kh+Rb+Su)	
5.	Financial Targets and achievements	250.00	101.51	255	88.35 Upto December, 2021	260.00	..

(D) Scheme to Establishment a Permanent Mechanism for Study of Cost of Cultivation of Various Crops in Maharashtra (APC)

1. Year of Inception : 1979
2. Involvement of Agriculture Department : Collection of field information and planning of village clusters for three yearly survey and communicating the village clusters selected for State Agriculture Universities to the Joint Director, Agriculture Price Committee Cell.
3. Objectives : Provide protection to farmers by purchasing farm produce at minimum support price whenever prices of crops covered under the scheme drop below minimum support price.
4. Goal : Selection of clusters of 279 villages after every three years, computation of cost of cultivation per quintal and per hectare of selected crops and submit recommendation to Central Agricultural Costs and Price Commission for deciding Minimum Support Prices. For the period 2021-22 to 2023-24, clusters of 279 villages are identified and communicated to the Joint Director, Agriculture Produce Price Committee Cell, Mumbai.
5. Achievements : Villages clusters are identified for the three year period of 2021-22 to 2023-24 and information is being collected and compiled to work out the cost of cultivation.
6. Financial Provisions : No separate financial provision is made for this scheme as the posts under this scheme were merged in One Window Scheme of Agriculture Department.
7. Scheme Implementation : This scheme is implemented by the Agriculture Produce Price Committee Cell at Mantralaya, Commissionerate of Agriculture and Four Agricultural Universities in the State.

(E) Crop Estimation Survey—Scheme for Estimation and Review of Crop yield in Maharashtra

1. Year of Inception :
2. Objectives :
 1. Provide credible estimates of per hectare yield of various crops at district and taluka level.
 2. Provide timely and accurate information required for crop forecasting.
 3. Provide average yield of crops of last ten years at taluka level for estimation of 'Paisewari'.
 4. Collect information from selected villages and crops regarding cultivation practices of farmers and use of seeds, fertilizers etc.
 5. Provide Circle level average crop yield of 3-5 years for calculation of compensation.
 6. Provide current years average yield per hectare for crop insurance scheme.
4. Crops Included : Currently, this procedure is used to conduct statewide crop cutting experiments for following crops in the state.
 - (1) Paddy (2) Bajra (3) Kh. Jowar (4) Finger Millet (Ragi) (5) Rabi Jowar (6) Wheat (7) Gram (8) Cotton (9) Sugarcane (10) Tambakhu (11) Groundnut (12) Red Gram (13) Sesamum (14) Linseed (15) Khurasani (16) Safflower (17) Sunflower (18) Maize (19) Summer Paddy (20) Summer Sunflower (21) Summer Groundnut (22) Green Gram (23) Black Gram (24) Soyabean (25) Rabi Sesamum (26) Rabi Sunflower (27) Rabi Maize.

5. Achievements : Total 115197 crop cutting experiments were conducted in year 2020-21 of which 85742 were in Kharif 25472 were in Rabi and 3983 were in Summer season. For 2021-22, 121703 experiments are planned, of which 87125 will be in Kharif, 29644 in Rabi and 4934 in Summer season.
6. Financial Provisions : No separate financial provision is made for this scheme except under the head Labour (D-3001), Operations and Administration (00) (01), commissionerate of Agriculture (24010136) under which, Rs. 12.76 lakh is provided for year 2020-21.

(F) Pradhan Mantri Fasal Bima Yojana (PMFBY)

Objectives:

- * To provide insurance coverage and financial support to farmers in event of failure of any of the notified crop as a result of natural calamities, pests and diseases so as to restore credit worthiness for ensuring season.
- * To stabilize the income of farmers to ensure their continuance in farming.
- * To encourage farmers to adopt innovative and modern agricultural practices.
- * To ensure flow of credit to the agriculture sector.

The salient features of the scheme are as below :-

- * The Scheme is optional For the Loanee and Non-loanee Farmers.
- * Indemnity level is 70 %.
- * All Farmers including share croppers, tenant Farmers growing notified crops in the notified area are eligible to Participate in the Scheme.
- * Actuarial premiums will be paid for insuring crops and hence claims liability will be on insurer.
- * More proficient basis for calculation of threshold yield (average yield of best five out of last seven years shall be considered.)
- * An individual assessment of claims will be carried out in case of specified localized calamity viz. Inundation, hailstorm, landslide.
- * Indemnity amount will become payable for prevented sowing/planting risks and for post harvest losses, due to cyclones & unseasonal rains.
- * On account payment up to 25% of likely claims will be released as advance for providing immediate relief to farmers during adverse season.

Coverage of Crops :

Kharif :—

- Food crops (Cereals & Pulses) : Rice, Kh. Jowar, Bajara, Ragi, Maize, Tur, Mung, Udid.
 Oilseeds : Soyabean, Gr. Nut, Sesamum, Niger.
 Annual Commercial : Cotton, Kh. Onion.

Rabi :—

- Food crops (Cereals & Pulses) : Wheat (Irrigated), Jowar (Irrigated & Unirrigated), Gram, Summer Paddy.
 Oilseeds : Summer Gr. Nut.
 Annual Commercial : Rabi Onion.

Pradhan Mantri Fasal Bima Yojana :**Financial Target and Achievement of previous 3 years under the Scheme. (State Share)**

Year	Subsidy Rs. Lakh (state share)		Sanctioned Claim Amount Rs. Lakh
	Target	Achievement	
2017-18	151710.87	151710.87	270781.00
2018-19	172379.98	172379.98	466801.00
2019-20	234584.16	234584.16	553728.00
2020-21	174448.84	174448.84	*Interim* 111635.00 Dated 25-01-2022

Physical Achievement of previous 3 years under the Scheme.

Season	Notified Crop Taluka	Notified Crop Circle
Kharif 2018	235	10587
Rabi 2018-19	417	4561
Kharif 2019	253	10952
*Rabi 2019-20	295	2906
Kharif 2020	188	10159
Rabi 2020-21	385	4331
Kharif 2021	186	10948
Rabi 2021-22	391	4651

(G) Gopinath Munde Shetakari Apghat Vima Yojana

Farmers are prone to accidents such as Road accident, Railway accident, Drowning flooding Effect of poison due to pesticides, Electric shock or Electrocutation, Lightening, Murder, Fall from height, Snake bite, Scorpion bite, Naxalite Violence, Animal bite (Rabies), Riots or Any other accidents due to natural calamity while performing their farming business. Due to which death disability of earning head of family occurs the family members of farmers have to face critical financial situation.

In order to give financial support to the aggrieved family members of the ill-fated farmers the State Govt. has taken the insurance policy to provide insurance cover from different accidents under Farmers Personal Accident Insurance scheme. The scheme is being implemented in Maharashtra state as a Gopinath Munde Shetakari Apghat Vima Yojana from 2015-16.

The scheme is implemented by paying Rs. 31.04 Crore to the Oriental Insurance Co. Ltd., Pune for the year 2016-17 for the period of 12 months *i.e.* 1st December, 2016 to 30 November, 2017.

The scheme is implemented by paying Rs. 43.49 crores to the Oriental Insurance Co. Ltd., Pune for the year 2017-18 for the period of 12 months *i.e.* 8th December, 2017 to 7th December, 2018.

The Scheme is implemented by paying Rs. 47.26 Crores to the Oriental Insurance Co. Ltd., for the year 2018-19 for the period of 12 month *i.e.* 8th December, 2018 to 7th December, 2019.

The Scheme is implemented by paying Rs. 97.98 Crores to The Universal Sompo General Insurance Co. Ltd. for the year 2019-20 for the period of 12 months *i. e.* 10th December, 2019 to 9th December, 2020.

The Scheme is implemented by paying Rs. 88.37 Crores to The Universal Sompo General Insurance Co. Ltd. for the year 2021-22 for the period of 12 months *i. e.* 7th April, 2021 to 6th April, 2122.

The Progress of the scheme upto January, 2021 is as under.

Year	Name of the Insurance Company	Total Claims	Claims Paid	Claims Under Process	Claims Rejected	Claims Pending
2016-17	Oriental Insurance Co. Ltd., Pune	3387	2428	..	959	..
2017-18	Oriental Insurance Co. Ltd., Pune	3545	2729	..	813	..
2018-19	Oriental Insurance Co. Ltd., Pune	3857	2825	21	1000	40
2019-20	The Universal Sompo General Insurance Co. Ltd.	5915	3809	361	1135	672
2021-22	The Universal Sompo General Insurance Co. Ltd. New Mumbai	1248	548	293	109	289

Agriculture Census (100% Centrally Sponsored Scheme)

1. Preface-

Agriculture Census forms part of a broader system of collection of Agricultural Statistics in the country. An agricultural operational holding is the ultimate unit for taking decision for development of Agriculture at micro level.

It is for this reason that an operational holding is taken as the statistical unit of data collection for describing the structure of agriculture.

Agriculture Census is important as these are the main source of information on basic characteristics of operational holdings such as land use and cropping patterns, irrigation and tenancy particulars. This information is tabulated by different size classes of holdings and social groups such as Scheduled Castes/Scheduled Tribes/other/Institute and gender (male/female) which are needed for development planning, socio-economic policy formulation and establishment of national priorities. The whole project of Agriculture Census in the country is implemented in three distinct phases, which are statistically linked together but focus on different aspects of agricultural statistics. In Phase-I, a list of holdings with their area and social characteristics and gender of the holders along with types of holdings is prepared. In Phase-II, detailed data on agricultural characteristics of holdings such as cropping pattern and land use classification are collected from selected villages. In Phase-III, data on input use pattern are collected from selected holdings in selected villages. Thus the whole operation of Agriculture Census in India is in fact not a complete Census, rather it is a combination of Census and Sample Survey.

Agriculture Census is 100% Centrally Sponsored Scheme. Agriculture Census is carried out after every five years within all states of country. In India it is carried out for reference years 1970-71, 1976-77, 1980-81, 1985-86, 1990-91, 1995-96, 2000-01, 2005-06 & 2010-11 yet. Now work for 10th Agriculture Census with reference year 2015-16 is completed.

The main objectives of Agriculture Census are :

- i) To describe structure and characteristics of agriculture by providing statistical data on operational holdings, including land utilization, irrigated and un irrigated area under different crops, use of agricultural machinery and implements, use of fertilizers, seeds, agricultural credit etc.
- ii) To provide benchmark data for formulating new agricultural development programmes and for evaluating their progress.
- iii) To provide basic frame of operational holdings for carrying out future agricultural surveys and,
- iv) To lay a basis for developing an integrated programme for current agricultural statistics.

2. Financial Requirement-

(Figures in lakhs)

Actual expenditure in 2017-18	Actual expenditure in 2018-19	Estimated expenditure in 2019-20
144.18	579.07	780.00

3. Discription of Agriculture Census Programme & Financial Requirement :—

The scheme is centrally sponsored and 100% financed by the Govt. of India, thus the entire expenditure on the salaries and other allowances of the headquarters, staff are borne by the Govt. of India .This further includes expenditure on trainings, printings of guidelines, registers, forms & their distribution to all district in the state. Expenditure also includes honorarium to field officers/staff working for Agri Census work.

4. Staffing pattern-

There are 13 sanctioned posts under the scheme. The details about no and pay scale are as follows.

Sr. No.	Designation	Pay scale with Grade pay	Sanctioned post
1	Deputy Commissioner, Agri. Census (Group-A)	Pay scale-s-23 67700-208700	1
2	Statistician, Agri. Census (Group-A)	Pay scale-s-20 56100-177500	1
3	Technical Officer (Statistics) (Group-B)	Pay scale-s-16 44900-142400	1
4	Senior Statistical Assistant (Group-B) Junior	Pay scale-s-15 41800-132300	1
5	Statistical Supervisor (Group-C)	Pay scale-s-13 35400-112400	2
6	Assistant Superintendent (Group-C)	Pay scale-s-13 35400-112400	1
7	Senior Clerk/StenoTypist, Group-C	Pay scale-s-8 25500-81100	1
8	Stenographer (Higher grade) Group-C	Pay scale-s-15 41800-132300	1
9	Clerk Group-C	Pay scale-s-6 19900-63200	1
10	Driver Group-C	Pay scale-s-6 19900-63200	1
11	Peon Group-D	Pay scale-s-1 15000-47600	2
Total Staff			13

Information of Number of Operational holding and Operated area (1976-77 to 2015-16)

Sr. No.	Size of Groups	Number of operational holdings in lakhs, operated Area in Lakh. ha.									
		1976-77	1980-81	1985-86	1990-91	1995-96	2000-01	2005-06	2010-11	2015-16	
1.	Marginal (0 to 0.99 ha)	Number	15.05	19.26	24.88	32.75	42.66	53.06	61.18	67.09	78.15
		Area	7.06	9.73	12.32	16.18	20.87	26.47	28.01	31.86	34.49
2.	Small (1 to 1.99 ha)	Number	11.42	15.41	21.04	27.28	31.76	36.06	41.50	40.52	43.39
		Area	16.76	23.34	31.35	39.83	46.06	51.27	52.48	57.39	57.71
3.	Semi medium (2.00 to 3.99 ha)	Number	13.39	16.86	19.57	21.26	21.52	22.74	24.52	21.59	23.27
		Area	38.33	48.18	55.20	58.80	58.72	61.09	61.30	57.65	60.26
4.	Medium (4.00 to 9.99 ha)	Number	13.52	13.92	13.17	11.71	9.43	8.65	9.25	7.10	7.34
		Area	83.38	84.49	78.62	68.56	54.36	48.80	48.85	39.93	40.99
5.	Large (10.00 ha & more than that ha.)	Number	4.26	3.18	2.36	1.71	1.16	0.87	0.70	0.68	0.69
		Area	65.52	47.88	36.03	25.88	18.79	13.38	9.41	10.84	11.61
Total No. of operational Holdings		57.64	68.63	81.02	94.71	106.53	121.38	137.15	136.98	152.85	
Total operated Area		211.05	213.62	213.52	209.25	198.80	201.01	200.05	197.67	205.06	

State level information of Agril. Census 2015-16

(Rs. in Lakh)

Sr. No	Item	Area (Ha/R)	Percentage	No. of operational Holder	Percentage
1	2	3	4	5	6
1.	Total operational Area	205.06	..	152.85	..
	A) Net area sown	179.55	87.56	..	..
	B) Current fallow	14.76	7.20	..	..
	Net area cultivated	194.34	94.77	..	..
	C) Un-cultivated land	10.72	5.23	..	..
	D) Land not available for cultivation	N.A.	N.A.	..	..
2.	Irrigation	N.A.	N.A.	N.A.	N.A.
	A) Completely irrigated	N.A.	N.A.	N.A.	N.A.
	B) Partly irrigated	N.A.	N.A.	N.A.	N.A.
3.	Well Irrigated	N.A.	N.A.	N.A.	N.A.
4.	No. of Wells in use	N.A.	..	..	..
	A) No. of Wells with electric pumpset	N.A.	N.A.	..	..
	B) No. of Wells with diesel pump	N.A.	N.A.	..	..
	C) No. of Wells without pumpset	N.A.	N.A.	..	..
5.	Gross cropped area	228.13	..	250.94	..
	1) Total food crops	139.14	60.99	163.69	65.23
	A) Cereals	79.88	35.01	85.43	34.04
	B) Pulses	35.49	15.56	52.80	21.04
	C) Other	23.77	10.42	25.46	10.14
	2) Total Non-food crops	88.99	39.01	87.25	34.77
	3) Major food crops.				
	1) Jawar	33.67	14.76	32.69	13.02
	2) Paddy	20.91	9.17	16.32	6.50
	3) Wheat	8.72	3.82	7.78	3.10
	4) Gram	14.71	6.45	12.56	5.01
	5) Tur	12.96	5.68	26.50	10.56
6.	Classification of types of holdings	Total operated area		Total Operational holding	
	1) Operational holder	205.06	..	152.85	..
	A) Individual holder	143.06	94.14	144.98	94.85
	B) Joint holder	10.93	5.33	7.59	4.96
	C) Institutional holder	1.07	0.53	0.28	0.19
	2) According to size class				
	A) Marginal	34.49	16.81	78.16	51.13
	B) Small	57.71	28.14	43.39	28.39
	C) Other	112.87	55.04	31.30	20.48
	3) According to Social group				
	A) Scheduled caste	12.79	6.24	10.30	6.74
	B) Scheduled Tribes	15.10	7.36	8.56	5.60
	C) Other	176.10	85.87	133.71	87.47
	D) Institutional	1.07	0.53	0.28	0.19

Monitoring and Evaluation Cell

(1) Introduction-

According to Agri. and Co-operation Department Government resolution number Krishi A-4280/18308-2/14-A, dated 09/02/1981 as well as Agriculture, Dairy Development, Animal Husbandry and Fisheries development Government resolution number AKV-1298/P.K.61/15A dated 29/05/1998 and Government resolution number AKV-1208/P.K.72/15A dated 22/05/2009 during reorganization of Agri. Department, Monitoring and Evaluation cell was established at Commissionerate of Agriculture, M.S Pune. The Monitoring and Evaluation cell works under the control of Director of Agriculture (Agro Processing & Planning), Commissionerate of Agriculture M.S. Pune.

(2) Sanction post Information -

For Implementation of Monitoring & Evaluation Cell following 14 posts are sanctioned

Sr. No.	Designation	Pay-scale	Sanction post	Filled post	Vacant post
1.	Principal, Monitoring & Evaluation (MAS Class-1)		1	1	0
2.	Agriculture Officer (MAS Class-II(Jr))		2	2	..
3.	Agriculture Supervisor		4	2	2
4.	Steno (Lower Grade)		1	..	1
5.	Senior Clerk		1	0	1
6.	Junior Clerk		2	1	1
7.	Driver		1	0	1
8.	Naik		1	0	1
9.	Peon		1	1	0
Total			14	7	7

(3) Objectives of Monitoring & Evaluation -

To monitor whether the implementation of a scheme is being done properly and while implementing the scheme the targets are being achieved. After the implementation of the plan, the plan has been worked out as per the target of the scheme, checking the effectiveness of the scheme, suggesting how the plan was implemented in the right way, suggesting the success of the scheme, and required changes in guidelines timely as per the feedback and responses of the beneficiaries and Govt. employees is the main objectives of evaluation.

(4) Internal Evaluation -

The evaluation is carried out in two ways, internal evaluation and external evaluation, Internal Evaluation is carried out by monitoring and evaluation cell, working at commissionerate of Agriculture, MS pune with recommendations of Director (Extension and Training), Director (Soil and Water Conservation), with the approval of the Commissioner of Agriculture Director (Input and Quality Control), Director (Horticulture) & Director (Agriculture Process & Planning)-Evaluation of various schemes are carried out and regular follow-up of field staff and officers, field level evaluation work is completed as soon as possible.

(5) A total of 48 evaluation reports have been published by the Monitoring and Evaluation cell up to 2021-22.

(6) Third Party Evaluation of ATMA Scheme has been proposed to Hon'ble Secretary Agriculture and Animal Husbandary, Dairy, Fisheries and requested for approval.

(7) During 2021-22 Result Frame work Document (RED) has been started.

(8) Evaluation of the magel tyala shettale scheme for the period 2017-18 to 2019-20 has been started.

(9) Evaluation of centrally sponsored Pradhan Mantri Krishi Sinchai Yojana per drop plus crop micro irrigation scheme for the period 2015-16 to 2019-20 has been started.

Taluka Seed Multiple Farms - Non-Plan Scheme (2401 0261) 100% State Sponsored Scheme

There are 183 Taluka Seed Farms and 9 Trial-Cum-Demonstration (TCD) farms. Thus total 192 Farms are in Maharashtra.

The Objectives of the Taluka Seed Farms are to produce quality seed of different crops, to train the farmers about the modern technologies in farming, to arrange demonstrations of different agril technologies so as to train the farmers. In this head the fund is available for Salary, Wages, Telephone, Electricity & Water charges, Travelling Exp., Office Exp., Rents & Taxes, overtime allowance, Materilas & supply, Minor works.

The seed production of different crops is the main objective of the Seed Farms. Also the allied agril, activities such as production of Vermicompost, Nadeecompost, Neem powder, neem oil, urea brickets, fodder production etc. are taken on these seed farms as per the availability of the funds.

Financial Requirements

(Rs. Lakh)

Scheme Name	Provision 2020-21	Expenditure 2020-21	Provision 2021-22
Taluka Seed Multiple Farm Non-Plan Scheme (2401 0261) 100% State Scheme.	4555.10	2829.00	4606.50

Sub-Mission on Seeds & Planting Material (SMSP) under National Mission on Agricultural Extension & Technology (NMAET)

1. Preamble -

Central sponsored Scheme Sub-Mission on Seeds & Planting Material (SMSP) under National Mission on Agricultural Extension & Technology (NMAET) is being implemented from 2014-15.

Objectives -

Increasing production of certified/quality seed, Increasing SRR, more particularly to achieve higher SRR, Strengthening the seed multiplication chain through assistance to public and private sector, Encouraging seed treatment particularly for farm saved seed, Popularizing new varieties to encourage varietal replacement, Ensuring availability of seed in contingent situations.

2. Financial Requirement-SMSP-Financial Achievement For the year 2020-21 (Rs. In Lakhs)

Sr. No.	Category	Budgeted provision			Funds received			Exp. as on 31-3-2021		
		Central	State	Total	Central	State	Total	Central	State	Total
1.	S.C.	600.00	400	1000	480.64	200.00	680.64	278.85	185.9	464.75
2.	S.T.	156.93	104.62	261.54	170.28	34.52	204.80	51.78	34.52	86.30
3.	General	1600	1066	2666	815.62	533.00	1348.62	385.59	257.06	642.65
Total		2356.93	1570.62	3927.55	1466.54	767.52	2234.06	716.22	477.48	1193.70

Note - Physical Achievement-Gram-17225 Qtls., Wheat-18671 Qtls., Groundnut-3830 Qtls., (Total Seed Distribution-39727 Qtls.)

Planning for 2021-22

(Rs. In Lakhs)

Sr. No.	Category	Budgeted provision			Funds received			Exp. as on 12-8-2021		
		Central	State	Total	Central	State	Total	Central	State	Total
1.	S.C.	600.00	400	1000	371.65	..	371.65	..	..	..
2.	S.T.	1851	400	2251	170.28	..	170.28	..	..	..
3.	General	2000	1300	3300	490.57	..	490.57	..	..	..
Total		2356.93	2100	6551	1032.50	..	1032.50	..	..	..

Note - In this scheme in Kharif 2021 season 7521 Qtls. Paddy Seed distributed. During 2021-22 distribution targets of wheat 66250 Qtls. gram 85000 Qtls and summer groundnt 14200 Qtls have been allotted.

Vasantrao Naik State Agriculture Extension Management Training Institute

(1) Objectives & Information of the Scheme :

By taking into consideration the Importance of Agriculture Development Programmes implemented in the State the Govt. of Maharashtra established Vasantrao Naik State Agriculture Extension Management Training Institute, (VANAMATI) at Nagpur on 1st July, 1992 with an objective to give training to the Officers & Staff working in Agriculture and Allied Departments. As per Govt. Resolution dated 29th May, 1998, the reorganization of Agriculture Department is done & Vanamati, Nagpur is declared as a State Apex Training Institute with its Seven Satellite Training Institute at Regional Level (RAMETIs).

To develop VANAMATI, Nagpur as one of the Leading & Popular Institutes as like YASHADA, Pune & MANAGE, Hyderabad, funds for basic facilities made available by this scheme. Basic facilities includes Construction of Buildings and Hostels for trainees, repairing & renovations of old buildings & hostel infrastructures, Furniture etc. VANAMATI, Nagpur keeps required amount of funds received by them and remaining funds allotted to RAMETIs located at Nagpur, Aurangabad, Amravati, Nashik, Kolhapur, Khopoli & Pune.

1. The Scheme Vasantrao Nasik State Agriculture Extension Management Training Institute is implemented as 100% state sponsored scheme.

2. For the year 2020-21 programme of Rs. 595.98 lakh is proposed for development & construction of Basic Facilities of Vanamati, Nagpur & its seven satellite Rametis. But Rs. 600.00 lakh is sanctioned by Government of Maharashtra. But actual Grants not received from Government.

3. For the year 2021-22 programme of Rs.718.47 lakh has been proposed. Budgetary Provision of Rs. 600.00 lakh is sanctioned by Government of Maharashtra.

4. For the year 2022-23 programme of Rs. 7890.19 lakh is proposed.

Training & Capacity Building Programmes for Officers, Field Functionaries and Members of various ATMA Committees at VANAMATI & RAMETIs level under R.K.V.Y.

(1) Objectives :

To Organize Training at VANAMATI, Nagpur and it's seven satellite institutes (RAMETIs) for effective training and capacity building of Senior and middle level officers at VANAMATI, Nagpur & field functionaries, farmers at RAMETIs, (Pune, Nagpur, Aurangabad, Amarawati, Kolhapur, Nasik & Khopoli) Also training to members of various ATMA Committees.

To train newly appointed Krishi Sevaks for effective implementation of various schemes.

To improve and upgrade technical knowledge.

To make aware about new extension reforms and innovation in technology dissemination.

To make aware about new changes in programmes and guidelines.

To train Officers & field staff in planning and management for project based implementation of various schemes/ Mission.

To improve new technology managerial skills.

To make aware about new initiatives in Agriculture, Processing and Marketing.

(2) Financial Requirements :

Sanction Provision for the year 2019-20	:	Rs.749.00 lakh
Expenditure incurred for the year 2019-20	:	Rs. 666.06 lakh
Demand proposed for the year 2020-21	:	Rs. 127.95 lakh
Funds made available for the year 2020-21	:	Rs. --
Expenditure incurred for the year 2020-21	:	Rs. 82.94 Lakh (Balance amount of year 2019-20)

Training of Government Employees For Technical Training Under State Training Policy

1) Objectives & Information of the Scheme :

Training at all levels of the State is essential for dynamitic administration in the State Government service at all levels. For this the training policy of the State of Maharashtra has been disclosed by the Government decision dated 23.9.2011 As per paragraph No. 2.2 of the the Government decision the officers and staff of the Department are entrusted with the responsibility of providing technical training to the concerned Department. Accordingly, the scheme is being implemented under the state training policy to provide traning to Government employees for technical training. Under this scheme, Funds is provided to the officers and staff of Agriculture Department for training of technical matters related to the schemes implemented by the Department.

2) Financial Requirements :

Sanction Provision for the year 2020-21	:	Rs. 100.00 lakh
Funds made Availbale for the year 2020-21	:	Rs. 37.50 lakh
Expenditure incurred for the year 2020-21	:	Rs. 37.50 lakh
Budget Provision sanctioned for the year 2021-22	:	Rs. 100.00 lakh
Funds made Availbale for the year 2021-22	:	Rs. --
Expenditure incurred for the year 2021-22	:	Rs. --
Demand proposed for the year 2022-23	:	Rs. 889.80 lakh

Implementation of Group Farming Scheme for promotion and Strengthening of Groups Farming (100% State Sponsored Scheme)

Objectives & Information of the Scheme :

Government had decided to double the income of Farmers upto the year 2022. The aim of the Scheme is to develop common facilities like irrigation for Agriculture, common implements, primary processing units and value addition etc. As well as the Farmers groups will be assisted for occupations like Dairy, Poultry, Fishery, Sericulture, Apiculture etc. Due to having small land holding of Farmers in the state, State government has decided to improve farmers income through group farming.

In this scheme it is decided to establish 200 Farmer Groups in Per Year *i.e.* year 2017-18 and 2018-19 accordingly provide maximum of Rs. 1.00 crore for each group.

Financial Programme :

Proposed demand for the Year 2020-21	:	Rs. 24083.44 Lakh
Budget provision sanctioned for the Year 2020-21 :		Rs. 11000.00 Lakh
Funds Distributed for the Year 2020-21	:	Rs. 4125.00 Lakh
Expenditure incurred for the Year 2020-21	:	Rs. 4125.00 Lakh
Funds surrender for the Year 2020-21	:	Rs.00.00 Lakh
Demand Proposed For the Year 2021-22 (Spillover programme) :		Rs. 35342.51 Lakh
Budget provision sanctioned for the Year 2021-22	:	Rs. 7500.00 Lakh
Fund Distributed for the year 2021-22	:	Rs. 0000.00 Lakh
Demand Proposed for the Year 2022-23 (Spillover programme & proposed new scheme)		Rs. 13000.00 Lakh

Support to State Extension Programmes for Extension Reforms (ATMA)

Agricultural Technology Management Agency (ATMA) Scheme was launched during 2005-06. It aims at making extension system farmer driven and farmer accountable by way of new institutional arrangements for technology dissemination in the form of an Agricultural Technology Management Agency (ATMA) at district level to operationalize the extension reforms. ATMA has active participation of farmers/farmer-groups, NGOs Krishi Vigyan Kendras (KVKs), Panchayati Raj Institutions and other stakeholders operating at district level and below. Release of funds under ATMA scheme is based on State Extension Work Plans (SEWPs) prepared by the State Governments, Allocation of resources for activities related to extension is linked to number of farm households and Blocks.

The scheme Support to State Extension Programme for Extension Reforms is centrally sponsored scheme with 60:40 Centre:State Share, except Farmer Friend 50:50. Out of 34 districts 33 districts of Maharashtra state are covered under this scheme since 2007-08. Formation of New ATMA institute in the newly created Palghar District is in progress.

(Rs. in Lakhs)

Sr. No.	Financial Year	Administrative Approval	Unspent Balance	Funds received	Expenditure
1.	2017-18	Rs. 10314.78 (Central-6065.99) (State 4248.79)	as on 1 April, 2017 Rs. 734.62 (Central 569.43) (State 165.19)	Rs. 7541.78 (Central-4525.07) (State 3016.71) (As on 31 March, 2018)	Rs. 5915.89 (Central-3473.7) (State 2442.11) (As on 31 March, 2017)
2.	2018-19	Rs. 11382.68 (Central-6829.61) (State 4553.07)	as on 1 April, 2018 Rs. 2584.74 (Central 1626.60) (State 958.14)	Rs. 5171.57 (Central 3102.94) (State 2068.63) (As on 31 March, 2019)	Rs. 6988.36 (Central 4116.74) (State 2871.52) (As on 31 March, 2019)
3.	2019-20	Rs. 11759.73 (Central-6795.52) (State 4964.21)	as on 1 April, 2019 (Rs. 1090.82) (Central 654.49) (State -436.33)	Rs. 6376.00 (Central-3825.60) (State 2550.40) (As on March, 2020)	Rs. 6718.98 (Central-3959.69) (State 2759.31) (As on March, 2020)
4.	2020-21	Rs. 12758.17 (Central 7376.59) (State 5351.58)	as on 1 April, 2020 (Rs. 1008.23) (Central 604.94) (State -403.29)	Rs. 7301.25 (Central 4380.75) (State 2920.50)	Rs. 4973.95 Rs. 2919.64 Rs. 2054.31 (As on Mar., 2021)
5.	2021-22	Rs. 12512.13 (Central-7246.96) (State 5265.17)	Rs. 4085.10 (Central-2130.54) (State 1954.56)	Rs. 2083.33 (Central-1250.00) (State 833.33)	Rs. 4073.19 (Central-2377.51) (State 1695.68) (As on December, 2021)

Various Agricultural Awards from State Government of Maharashtra

To encourage and honour the new initiatives undertaken in Agriculture field and to recognise the remarkable contributions in the field of Agriculture, Government of Maharashtra, Agriculture Department is felicitating different awards. Following Awards are given by the department every year.

1. Crop Competition

Since year 1959-60, Crop competition is organized by Department of Agriculture Government of Maharashtra. The format and criteria of Crop Competition have changed since the rabbi season of year 2020. Crop competitions have been organized at the state, divisional, districts and taluka levels with the objective of creating and encouraging a competitive environment among farmers to maximize their production using modern technology. Crop competition is being organized for all the crops under which the area under cultivation is more than 1000 hectares in Taluka.

* Kharif and Rabbi Seasons include following crops.(Total 17 Crops)

Kharif Crops-Paddy, Sorghum, Millet, Nachani, Maize, Tur, Green gram, Udid, Soyabean, Groundnut, Sunflower (Total 11 Crops)

Rabbi Crops-Sorghum, Wheat, Gram, Safflower, Lentils, Sesamum (Total 6 Crops)

* Minimum required area to participate in the competition : 0.10 ha for all crops

* At least 10 contestants from general category and at least 5 contestants from tribal category are required to participate in crop competition at taluka level. Participation fee is Rs. 300 per farmer per crop.

* The format of the award is as follows--

Sr. Level	Competition	General and Tribal category (Prize in Rs.)		
		First	Second	Third
1.	Taluka level	5000	3000	2000
2.	District level	10000	7000	5000
3.	Division level	25000	20000	15000
4.	State level	50000	40000	30000

Total 300 awards given up to end of year 2016.

2. Dr. Panjabrao Deshmukh Krishi Ratna Award - (Total No. of awards given - 01)

This award is honoured to farmer / organisation who has given remarkable and highest contribution in Agriculture Extension, Agriculture Production, Agriculture Processing, Export, change in cropping pattern and application of new technologies for higher production. The Award started in the year 2000-2001 on the occasion of 101th Birth Anniversary of Dr. Panjabrao Deshmukh. Krishiratn Awardee is honoured with Certificate, Memento and Prize of Rs. 75000/-. Total 19 awards given upto end of Year 2016.

3. Vasantarao Naik Krishibhushan Award - (Total No. of awards given - 08)

This award is started in the year 1984 in the name of Chief Minister, late Shri. Vasantrao Naik. The award is given for the outstanding work in Agriculture, Animal Husbandry, Dairy Development, fisheries development, Horticulture, Rural Development, bio-gas, farmer's contribution in Agriculture and allied sector. Awardee is honoured with Certificate, Memento and Prize of Rs. 50,000/-. Total 264 awards given upto end of Year 2016.

4. Krishi bhushan Organic Farming Award - (Total No. of awards given - 08)

The farmers/organisation having outstanding work in Organic farming field are honoured with Certificate, Memento and Prize of Rs. 50,000/- . Total 55 awards given upto end of Year 2016.

5. Jijamata Krishibhushan Award - (Total No. of awards given - 08)

Women having outstanding work in Agriculture and allied fields are honoured with Certificate, Memento and Prize of Rs. 50,000/- . Total 102 awards given upto end of Year 2016.

6. Vasantrao Naik Shetimitra Award (Total No. of awards given - 08)

This award is started from 1984. The farmers/ persons/ organisation who have contributed in transfer of agriculture technology in their area, who have guided /encouraged other farmers for increasing agricultural production, the organisation/ persons who are not having their own farm or land but they are working for valuable contribution in agriculture through media or allied platform are honoured with this award. Awardee honoured with Certificate, Memento and Prize of Rs. 30,000/- . Total 72 awards given upto end of Year 2016.

7. Udyan Pandit Award - (Total No. of awards given - 08)

Under the Horticulture, farmers get huge financial benefits from vegetable crops, fruit crops, flowers, spices, medicinal and aromatic plants. The farmers are being honoured with Udyan Pandit Award from 2001 to encourage the-farmers who have made significant progress in the field of horticulture. Awardee honoured With Certificate, Memento and Prize of Rs. 25,000/- . Total 198 awards given upto end of Year 2016.

8. Vasantrao Naik Shetinistha Award - (Total No. of awards given - 40)

The use of improved technology in agriculture, improved agriculture implements, plantation crops according to soil type, land levelling, contour sowing, judicious use of chemical fertilizers, water conservation, water storage structure with drip & sprinkler irrigation, timely application of pesticides in agriculture & allied sector related work and guidance to nearby farmers etc. Norm considering overall work, are awarded by this award. Awardees honoured with Certificate, Memento and Prize of Rs. 11,000/-. Total 1396 awards given upto end of Year 2016.

9. Yuwa shetkari puraskar-

To encourage young farmers between the ages of 18 to 40 for their outstanding work in the field of Agriculture, these farmers will be honored with the "Yuwa shetkari Award" From the year 2020 onwards.

The award consists of Amount of /Rs. 30000/- a Memento, certificate and Reception with a spouse.

10. Padmashri Dr.Vitthalrao Vikhe Patil Krushi Sevaratna Award - (No.of awards given - 2)

From officers and employee of all cadres, one outstanding officer and one employee who have played important role for increasing agricultural income and done precious job/work for development of agriculture field in the state, felicitated by Padmashree Dr.Vitthalrao Vikhe Patil Krishi Sevaratna Award from year 2014. Awardee honoured with Certificate and Memento. Total 06 awards given upto end of Year 2016.

Shetkari Magazine

Preface: Since 1965 Shetkari Magazine is being published by Department of Agriculture. Since May 2009, total 56 pages with four colour magazine is published. Through this magazine information about agriculture technology, government schemes, various farmers success stories is given. Information given in the magazine is very fruitful in the adoption of new technology by the farmers for increasing productivity and income. Therefore this important magazine needs to continue further.

(Rs. in Lakh)

Year	Average Subscriber	Subscriber Receipt Rs.	Advertisment Receipt Rs.	Total Receipt Rs.
2015-16	140633	288.00	12.00	300.00
2016-17	111288	278.22	8.55	286.77
2017-18	112150	194.69	2.46	197.15
2018-19	54984	137.46	1.96	139.42
2019-20	48372	120.93	2.14	123.07
2020-21	58329	145.82	2.14	147.96
2021-22 (approximately)	70000	175.00	1.96	176.96

In 2020-21, from subscription and advertisements, a revenue of Rs. 147.96 Lakh is received. Currently 16 posts are sanctioned in the office, out of which 9 posts are vacant. The average subscriber number in 2020-21 is 58329.

From subscription and advertisement till March 2021, a revenue of Rs. 147.96 Lakh is received. For 2021-22 a provision of Rs. 438.14 Lakh is proposed and Rs. 384.00 Lakh have been approved. Similarly for 2022-23 a provision of 432.74 Lakh is proposed.

Information about Post of Shetkari Magazine Office

Sr. No.	Post	Sanction Posts			Filled Posts	Vacant Posts
		Permenant	Non Permenant	Total Posts		
1.	CLASS-1 Deputy Director	1	..	1	1	..
2.	CLASS-2 Technical Officer	1	..	1	1	..
3.	Agriculture Officer	2	..	2	1	1
4.	CLASS-3 Translator	1	..	1	..	1
5.	Suprident	..	1	1	..	1
6.	Stenographer	..	1	1	..	1
7.	Agriculture Surervisor	..	1	1	1	..
8.	Agriculture Assistant	..	1	1	..	1
9.	Senior Cleark	1	1	2	2	..
10.	Cleark	1	1	2	..	2
11.	Peon	..	3	3	1	2
	Total	7	9	16	7	9

I. Birsa Munda Krushi Kranti Yojna(Tribal Sub Plan and Other than TribalSub Plan)

1. Brief information of the Scheme : Adivasi Upyojna scheme was implemented for the development of Scheduled Tribe Farmers since 1992-93. Adivasi Upyojna (TSP) was implemented in Thane, Palghar, Raigad, Nashik, Nandurbar, Dhule, Jalgaon. Pune, Ahmednagar, Nanded, Amravati, Yavatmal, Nagpur, Gondia, Chandrapur and Gadchiroli Districts of Maharashtra State, while Adivasi Upyojna (OTSP) was implemented in Thane, Palghar, Raigad, Nashik, Nandurbar, Dhule, Jalgaon, Pune, Ahmednagar, Solapur, Aurangabad, Jalna, Beed, Latur, Osmanabad, Nanded, Parbhani, Hingoli, Buldhana, Akola, Washim, Amravati. Yavatmal, Wardha, Nagpur, Bhandara, Gondia, Chandrapur and Gadchiroli Districts of Maharashtra State.

As this scheme was implementing from so many years. The Committee was formed by the Government for the recapitulation of the scheme. Keeping in view the changed scenario, recommendations of the Committee. The State Government has therefore revamped the scheme in 2017-18 with new norms of subsidy and components so as to provide sustainable irrigation facilities. Later it was decided to implement the existing Adivasi Upyojna scheme as Birsa Munda Krishi Kranti Yojna *vide* Government Supplementary Letter dated 30/12/2017.

2. Objectives : To provide sustainable irrigation facilities to Scheduled Tribe Farmers.

3. Components : Under this scheme, subsidy is given for various items as follows :-

S. No.	Item	Subsidy limit (Rs.)
1.	New well construction	250000/-
2.	Old well repairing	50000/-
3.	Inwell boring	20000/-
4.	Electric connection charges	10000/-
5.	Plastic Lining of Farm pond	100000/-
6.	Kitchen Garden	500/-
7.	Micro irrigation set	
	A. Drip irrigation or	50000/-
	B. Sprinkler irrigation	25000/-
8.	Pump Set	20000/-
9.	PVC Pipe/HDPE Pipe	30000/-

4. Eligibility : 4.1) Scheme is only for Scheduled Tribe farmers. Land holding limit is 0.20 ha. to 6.00 ha. (for benefit of New well component minimum 0.40 ha. land essential)

4.2) Income limit upto Rs. 1,50,000/- income certificate necessary.

5. Selection of beneficiaries : Under this scheme applications are accepted on MAHADBT Portal through Online system. Selection of beneficiaries has to be done by Online Lottery system.

6. Allocation

(Rs.in Lakhs)

S.N.	Name of Scheme	2020-21		2021-22	2022-23
		Sanctioned	Expenditure	Sanctioned Programme	Proposed
1.	Birsa Munda Krushi Kranti Yojna (Tribal Sub-Plan)	7728.87	7728.87	6225.80	6848.38
2.	Birsa Munda Krushi Kranti Yojna (Other than Tribal Sub-Plan)	3857.47	3857.47	3243.46	3567.81

2. Dr. Babasaheb Ambedkar Krushi Swavlamban Yojna

1. Brief information of the Scheme : The Scheduled caste plan scheme was implemented for the development of Scheduled caste and Nav Baudha farmers since 1982-83. The Hon. Finance Minister has declared The Dr. Babasaheb Ambedkar Krushi Swavlamban Yojna during his budget speech of 2016-17. Keeping in view the changed scenario and to provide assured irrigation facility to the farmers, it was decided to implement the existing Scheduled caste plan scheme as Dr. Babasaheb Ambedkar Krushi Swavlamban Scheme *vide* Government Resolution dated 05 January 2017. Scheme is implemented in all Districts of Maharashtra except Mumbai.

2. Objectives : To provide sustainable irrigation facilities to Scheduled Caste/Nav Baudha Farmers.

3. Components : Under this scheme, subsidy is given for various items as follows -

Sr. No.	Item	Subsidy limit (Rs.)
1.	New well construction	2,50,000/-
2.	Old well repairing	50,000/-
3.	Inwell boring	20,000/-
4.	Pump set	20,000/-
5.	Electric connection charges	10,000/-
6.	Plastic Lining of Farm pond	1,00,000/-
7.	Micro irrigation set	
	A. Drip irrigation or	50,000/-
	B. Sprinkler irrigation	25,000/-

4. Eligibility :

4.1 Land Holding : Land holding limit is 0.20 ha. to 6.00 ha. (for benefit of New well component minimum 0.40 ha. land essential) 7/12 & 8A is necessary.

4.2 Caste Certificate : Scheme is only for SC/Nav Baudha Caste farmers. Cast certificate is necessary.

4.3 Income certificate : Income limit upto Rs. 150000/-, income certificate is necessary.

5. Selection of beneficiaries : Under this scheme applications are accepted on MAHADBT Portal. Selection of beneficiaries has to be done by online Lottery system.

Dr. Babasaheb Ambedkar Krushi Swavalamban Yojna

6. Allocation

(Rs.in Lakhs)

Sr. No.	Name of Scheme	2020-21		2021-22	2022-23
		Sanctioned	Expenditure	Sanctioned Programme	Proposed
1.	Dr. Babasaheb Ambedkar Krushi Swavalamban Yojna	26646.19	26646.19	27183.06	29901.37

Submission on Agricultural Mechanization-2020-21

1. Brief overview - To make available agricultural mechanization facilities and supply of agricultural machinery to farmers on subsidy.

2. Major Objectives - To increase the use of farm energy in state. Establishment of custom hiring centres. To encourage agricultural mechanization, Provide financial assistance to farmers for purchase of agricultural machinery.

3. Approved Components -

1. Financial assistance for purchase of agricultural implements.
2. Assistance for establishment of custom hiring centres.

In this submission Central Government has 60 % share and State Government has 40% share. Subsidy is given for the implements approved by guidelines of Central Government. Rate of financial assistance is as below :-

Sr. No	Components	Subsidy limit
1.	Financial assistance to farmers for purchase of agriculture implement	As per approved rates by Central Government
2.	Establishment of Custom Hiring Centres	
1.	Procurement Subsidy for establishment of Custom Hiring Centre upto Rs. 10 lakh.	Upto Rs. 4.00 lakh
2.	Procurement Subsidy for establishment of Custom Hiring Centre upto Rs. 25 lakh.	Upto Rs. 10.00 lakh
3.	Procurement Subsidy for establishment of Custom Hiring Centre upto Rs. 40 lakh.	Upto Rs. 16.00 lakh
4.	Procurement Subsidy for establishment of Custom Hiring Centre upto Rs. 60 lakh.	Upto Rs. 24.00 lakh
3.	Promotion of Agricultural Mechanization selected village (Farm Machinery Bank)	Upto Rs. 8.00 lakh
4.	Establishment of High-Tech, High Productive equipments Hub	Upto Rs. 40.00 lakh

Amount of Rs. 59.86 crore has been revalidated by Govt. of India for Utilization in 2021-22. Annual Action plan of Rs. 15246.93 lakh has been sanctioned for 2021-22.

State Sponsored Agriculture Mechanization Programme

Agriculture is the major source of employment in the state. However, the problem of labour availability for agricultural work is serious. The current wage rate and consequent cost of farming, untimely farming practices due to shortage of labour and Income from actual farming are making agribusiness tough.

The aim of the central government is to double the income of farmers by the year 2022, If we want to increase the production by reducing the cost of inputs required for agriculture, it is necessary to change the traditional farming and cultivate in a modern way through mechanization. For this, sowing, post-harvest processing needs to be done through mechanization. If mechanization is used extensively, it is possible to increase agricultural production and increase farmers' income.

About 80% of farmers in Maharashtra are small and marginal landholders. Farmers cannot afford the machinery / implements required for mechanization due to their poor financial condition. For this, farmers need financial assistance. The program of agricultural mechanization is implemented in the state under the Centrally Sponsored Sub-Mission on Agricultural Mechanization. Similarly, a part of mechanization program is also implemented under the National Food Security Mission, National Oilseeds and Oilseeds Mission and Mission for Integrated Development of Horticulture Program. However, it is not possible to supply agricultural implements to the farmers through these schemes as per the demand from the farmers. Earlier, a large amount of funds was being made available for agricultural mechanization from the Rashtriya Krushi Vikas Yojana. However, at present there is a significant reduction in funding from the central government under the RKVY. Therefore, it is not possible to provide much funding from the RKVY for mechanization of agriculture. Also, in the RKVY, subsidy is not allowed for high cost machinery like tractors, sugarcane harvesters, power tillers. However, due to the high demand for this machine, there are limitation to the effective implementation of the Agricultural Mechanization Scheme. Considering the demand of farmers for agricultural implements, it has been decided to implement an independent agricultural mechanization scheme of the state government from the year 2018-19.

The program is to be implemented as per the guidelines of the Central Government's Sub-Mission on Agriculture Mechanization. Financial assistance is provided for the purchase of agricultural implements and for the establishment of an agricultural implements bank,

In the year 2019-20, Rs.40.00 crore was provided for this program and in the year 2020-21, Rs. 38.00 crore was provided. For the year 2021-22 administrative approval for programme of Rs. 90,00 crore has been given.

Annual Plan 2022-23

(Rs. in lakh)

Sr. No.	Name of Scheme	Central/ State share	Source	Category	Budget Head	Year 2020-21				Year 2021-22				Budget estimate for 2022-23			
						Revali- dation Funds as per Approval	Received Funds	Total Available Funds	Expendi- ture	Revali- dation	Admini- strative Approval (Including Revaliated Funds)	Antici- pated expenditure upto March 2021	Vidarbh	Marath- wada	Rest of Maharashtra	Non Divisible (14 to 17)	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1.	Sub Mission on Agricultural Mechanization	Central	Central	General	2401-2513	638.180	3157.200	3795.380	956.295	2839.085	9187.245	6348.160	2564.246	2088.346	5997.407	..	10650.000
				SCP	2401 B188	1852.220	600.000	2452.220	158.570	2293.650	4093.650	1800.000	577.856	470.611	1351.532	..	2400.000
				TSP	2401+A459	1119.410	300.000	1419.410	565.019	854.391	1854.391	1000.000	469.511	382.378	1098.111	..	1950.000
				OTSP		..	..	..	..	..	..	..	..	..	..	..	..
				Total		3609.810	4057.200	7667.010	1679.884	5987.126	15135.286	9148.160	3611.614	2941.336	8447.051	..	15000.000
		State	State	General	2401-2513	425.453	2104.800	2530.253	637.527	1892.726	6124.830	4232.107	1709.498	1392.232	3998.270	..	7100.000
				SCP	2401 B197	1234.813	..	1234.813	105.710	1129.103	2729.100	1200.000	385.233	313.744	901.023	..	1600.000
				TSP	2401-A441	746.273	200.000	946.273	376.346	569.927	1236.261	666.667	313.011	254.922	732.067	..	1300.000
				OTSP		..	..	..	..	..	..	..	..	..	..	..	..
				Total		2406.540	2304.800	4711.340	1119.583	3591.757	10090.191	6098.773	2407.742	1960.898	5631.360	..	10000.000
				DPDC	General	..	..	..	..	..	..	..	..	..	..	..	..
				SCP		..	..	..	..	..	..	..	..	..	..	..	..
				TSP		..	..	..	..	..	..	..	..	..	..	..	..
				OTSP		..	..	..	..	..	..	..	..	..	..	..	..
				Total		..	..	..	..	..	..	..	..	..	..	..	..
				Total State		2406.540	2304.800	4711.340	1119.583	3591.757	10090.191	6098.773	2407.742	1960.898	5631.360	..	10000.000
				TOTAL (Centre+ State)		6016.350	6362.000	12378.350	2799.467	9578.883	25225.477	15246.933	6019.356	4902.233	14078.411	..	25000.000
				State Sponsored Agriculture Mechanization													
		State	General		2401-A 913	..	3800.000	3800.000	..	3800.000	12800.000	12800	3611.620	2941.338	8447.042	..	15000.000

Table No. 1
Breeder, Foundation, Certified Seed Production

Sr. No	Type of Seed	Crop Group	2018-19 Actual	2019-20 Actual	2020-21 Tetntative	Remarks
1.	Breeder Seed	Cereals	1.59	2.37	2.96	
		Pulses	25.00	7.50	8.20	
		Oilseeds	0.12	0.09	0.17	
		Cotton	0.75	1.05	0.85	
		Total	27.46	11.01	12.18	
2.	Foundation Seed	Cereals	16308	11526	12946	
		Pulses	16626	16272	18596	
		Oilseeds	87468	31320	14704	
		Cotton	..	53	6	
		Jute	67	77	119	
		Total	120469	59248	46371	
3.	Certified Seed	Cereals	163222	165024	148956	
		Pulses	184237	198401	2081.87	
		Oilseeds	695464	2832229	774847	
		Cotton	896	639	242	
		Jute	1644	397	..	
		Green Manuring Crops	7821	7347	650	
		Fodder Crop	11763	10200	6105	
		Total	1065047	665237	539637	

Table No-2

Information of Maharashtra State Seeds Corporation Limited, Akola

Sr. No	Year	Certified Seed Production (qtls.)	Area Under Production (ha.)	Price of sold seeds (Rs. In Lakhs)
1.	2018-2019	1065047	90398	52123
2.	2019-2020	665237	89984	52375
3.	2020-2021	539637	90629	38286

Table No-3

Capital Reciept - Maharashtra State Seed Corporation, Akola

Sr. No.	Year	Amount (In Lakhs)	Remark
1.	2018-2019	418.44	
2.	2019-2020	418.44	
3.	2020-2021	418.44	

Setting up of seed production processing and seed storage godown Under Sub-Mission on Seed and Planting Material (SMSP) in 2018-19

1. Objectives & Highlights of Scheme-

To make available the high quality, high yielding varieties of certified quality seeds locally to farmers for increasing production and productivity of different crops.

100 % Central Sponsored Scheme. 100% subsidy of Rs. 60 Lakh or actual which ever is less will be available for setting up of Seed processing and seed storage godown each of 500 MT Capacity at Gram Panchayat level.

A. For Machineries- 24.00 lakh (Approx)

B. For Construction- 36.00 Lakh (Approx)

2. Implementing Agency & Eligibility -

A. Farmers Producing Organization (FPO), Self Help Groups (SHG), Commodity Interest Groups (CIG), Co-operative Organisation, other reliable agency involved in agricultural activity approved by concerned state will be eligible for financial assistance.

B. As per the guidelines received from GOI, the seed processing plant & seed storage godown may be established on Govt. land /Govt. seed farm/Panchayat owned land/FPOs land/SHGs, CIGs/Co.Op.s land.

3. Financial Requirements- Fund Received and Expenditure

Year	Financial (Rs. in Crores)		Physical	
	Fund received	Expenditure	Sanctioned Projects	Project Completed
2019-20 & 2020-21	16.93	9.33	21	16
2021-22	15.00	..	10	..

Crop Pest Surveillance and Advisory Project (CROPSAP)

1. Introduction :- Abrupt rainfall and long dry spell leads to change in weather conditions favourable for onset and spread of pest and diseases causing considerable crop damage. To avoid crop losses incurred due to pest and disease attack as well as considering crop area and their economic importance, Govt. of Maharashtra under taken “Crop Pest Surveillance and Advisory Project” (CROPSAP) for management of major pests of soybean, cotton, paddy, tur and gram crops in the state since 2009-10. Initially project was funded under Rashtriya Krishi Vikas Yojna (RKVY), however considering its utility project has been implemented through regular State plan from 2013-14.

2. Objectives :-

1. To train farmers for pest identification and integrated pest management.
2. Mass awareness creation about pest infestation and their control measures thereby enhancing production by avoiding economic losses.
3. Scientific pest surveillance of Soybean, Cotton, Paddy, Tur, Maize, Sorghum Sugarcane Gram crops and suggesting real time appropriate plant protection advisories to farmers.
4. Ensure timely availability of critical inputs in hot spot areas.
5. Avoid economic losses of farmers due to pest disease epidemics.
6. Statistical data generation for important pest and finalize their long term control measures with the help of State Agriculture Universities.
7. To suggest control measures for major pest with regular surveillance of Soybean, Cotton, Paddy, Tur, Maize, Sorghum, Sugarcane and Gram crops, finalize plant protection recommendations and train the farmers as well as field functionary with support of National Research Centre for Integrated Pest Management (ICAR), New Delhi, Central Institute of Cotton Research, Nagpur, Central Research Institute for Dryland Agriculture, Hyderabad; National Institute for Plant Health Management, Hyderabad.

3. Project area :- *kharif* : All sown area under Soybean, Cotton, Paddy, Tur, Maize, Sorghum and Sugarcane crops in the state.

***Rabi* :** All sown area under Gram, Jowar & Maize crop in the state excluding Konkan division.

Budget :-	Rs. in Lakh				
	2020-21		2021-22		2022-23
	Funds released	Actual expenditure	Sanctioned provision	Proposed provision	
	5000.00	1650.00	1350.60	5500.00	3000.00

4. Major components :-

- (1) Pest surveillance, advisory and integrated management.
- (2) Mass awareness creation about pest and diseases.
- (3) Availability of critical inputs to farmers on 50% subsidy in pest epidemic situation.

5. Project Stateholders :-

- (1) State Agriculture Department of Maharashtra
- (2) National Research Centre for Integrated Pest Management, New Delhi
- (3) Central Institute of Cotton Research, Nagpur
- (4) Central Research Institute for Dryland Agriculture, Hyderabad

(5) Vasantnao Naik Marathawada Agriculture University, Parbhani

(6) Mahatma Phule Agriculture University, Rahuri

(7) Dr. Panjabrao Deshmukh Agriculture University, Akola

(8) Dr. Balasaheb Sawant Konkan Agriculture University, Dapoli

(9) National Institute for Plant Health Management, Hyderabad

(10) Maharashtra Information Technology corporation Ltd., (MAHA-IT), Mumbai.

6. Area coverage and major pest for surveillance :- Area under Soybean, Cotton, Paddy, Tur, Maize, jowar gram and Sugarcane and to control the epidemic infestation of pest and diseases of other crops in the state.

Sr. No.	Crop	Area (Lakh ha)	Major pest and diseases
1.	Soybean	46.00	Spodoptera, Helicoverpa, Stem fly, Semilooper, Girdle beetle
2.	Cotton	39.41	Jassids, Thrips, Whitefly, Pink bollworm, American and Spotted Bollworm and Spodoptera
3.	Paddy	15.45	Yellow Stem borer, Army worm, Gall midge, Jassids, Blue beetle, Bacterial blight, Neck blight, Sheath blight
4.	Tur	13.24	Pod Borer, Podfly, Leaf webber
5.	Gram	21.47	Pod Borer, Wilt
6.	Maize	10.94	Fall army worm
7.	Sorghum	15.09	Fall army worm
8.	Sugar cane	12.32	White grub and Fall army worm
Total		173.92	

Strengthening of Bio Pesticide Laboratories - 2021-22

Use of bio-pesticides has first priority in IPM which reduces the use of chemical pesticide and cost of production. To encourage the use of bio-pesticide, Govt of Maharashtra has established 10 bio-control laboratories. These labs produce bio pesticides and bio fertilizers. These laboratories are situated at Aurangabad, Wardha, Amravati, Yawatmal Buldana, Dhule, Jalgaon, Parbhani, Nanded & Ahmednagar.

Production & Sale of Bio-Pesticide

Sr. No.	Particular	Unit	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
1.	Trichoderma	Kg.	120899	..	..	..	..	2698
2.	Beauveria	Kg.	26348	34570	..	..	7935	..
3.	Verticilium.	Kg.	26214	44147	..	8812	12011	..
4.	Pseudomonas	Kg.	1000	..	..	..	..	..
Total			174461	78717	..	8812	19946	2698
Revenue received		Rs. in lakh	161.13	101.63		13.39	25.00	0.40

Production & Sale of liquid Bio-Fertiliser

Sr. No.	Bio Fertiliser	Unit	2017-18	2018-19	2019-20	2020-21	2021-22
1.	Rizhobium	Litre	8822.40	2105.00	5784.40	34	4087
2.	Azotobactor	Litre	5429.35	3012.25	1775.80	120	239
3.	Acetobactor	Litre	970	1003	1970.00	..	680
4.	Phosporus Solublizing Bacteria	Litre	12064	5448	7945.50	536	786
5.	Liquid Consortia	Litre	98886	133571	117486.50	66465	81662
6.	Potash Mobilizing Bacteria (KMB)	Litre	400	1019	..	..	..
Total			Litre 126571.75	146158	134962.20	67155	87454
Revenue received		(Rs. In Lakh)	439	609.72	487.14	172.65	152.79

Strengthening of State Quality Control & Residue Testing Laboratories

(Seed Testing, Fertilizer Control, Insecticide Testing & Residue Testing Laboratories)

Aim & Information of the Scheme : There are 12 quality control laboratories viz. Seed testing, Fertiliser Control & Insecticide Testing laboratories & 2 Pesticide Residue Testing Laboratories in Maharashtra State. Information of Laboratories is as under.

1. Seed Testing Laboratory :- There are 3 Notified Seed testing laboratories in Maharashtra State situated at Pune, Parbhani & Nagpur. The Annual Testing capacity of these laboratories is 53000 samples. Samples are received to these laboratories from Quality Control Inspectors as per Seed Act, 1966 & Seed Rule 1968, Seed Certification Agency Maharashtra State Seed Corporation & Farmers.

2. Fertiliser Control Laboratory :- There are 5 Fertiliser Control laboratories in Maharashtra State situated at Pune, Nashik, Aurangabad, Amravati & Kolhapur. The Annual Testing capacity of these laboratories is 22000 samples. Samples are received from Quality Control Inspectors as per Fertiliser (Control) Order, 1985 & Farmers to these laboratories are tested. Facility of testing Bio. Fertilisers & Micro Nutrients is created in all these Laboratories.

3. Insecticide Testing Laboratory :- There are 4 Insecticide Testing laboratories in Maharashtra State situated at Pune, Thane, Aurangabad & Amravati. The Annual Testing capacity of these laboratories is 8000 samples. Sample are received from Quality Control Inspectors as per Insecticide Act, 1968 & Farmers to these laboratories are tested.

4. Pesticide Residue Testing Laboratories :- Government of Maharashtra established two Pesticide Residue Testing Laboratories at Pune & Nagpur, with the aim to test the Samples of fruits, Vegetables, Grains, Oil, Dairy products, processed food, water for its residue content.

There is huge demand of Agriculture produce in the international market. In order to export agricultural products to the international market, it is necessary to check the pesticides residue. Modern equipments in the above labs makes it possible to test the residues of different types of pesticides from a single sample.

There is no any provision of fund under RKVY scheme for Strengthening of State Quality Control & Residue Testing Laboratories during year 2021-22.

Sanctioned programme for concerned laboratories under :-

Non-Plan scheme (Budget head 2401-0305) is as follows.

Budget Provision	Supplementary demand	Administrative approval	Amount received
Rs. 2636.13 Lakhs	..	Rs. 2636.13 Lakhs	Rs. 1966.54 Lakhs (Upto December 2021)

Soil Survey and Soil Testing Scheme

The Soil Testing Laboratory was established in the year 1957 and 1959 at Pune and Nagpur respectively. At present, total 31 labs (each one in a district) are implemented in the state as per G.R.No. aakruti /1298/pra kra 61/15-A, Mumbai, dated 29th May, 1998 after the re-pattern of the department with amalgamation of soil survey and soil testing. This scheme is running by District Soil Survey Soil Testing Officer at district level and Divisional Joint Director of respective division is a controlling authority. At State level, this scheme is under the dominion of Director of Agriculture (Inputs & Quality Control) with Technical Control by Deputy Director, soil survey and soil testing. The information of the scheme is as under :-

1. Soil Testing Scheme :-

Objectives of the Scheme - The main objective of this scheme is to analyse the soil sample for confirming the nutrient status in the soil and as per availability of particular nutrients, reporting of the fertilizer doses recommendation is made and if special flaws is occurred in the soil, it is to be brought in the notice of that concerned farmer by suggesting proper solution.

Soil testing property for the parameter Nitrogen, Phosphorous, Potash, pH and alkalinity is charged Rs. 35/- per sample as per policy framed since 2014-15. In spite of this, Rs. 275/- is charged for detail analysis of important physical and chemical properties of soil sample. Fertiliser recommendations for achieving more produce as per the amount of nutrients found in the soil is fixed by making the correct change in the six level process recommended by SAUs. Balanced use of fertiliser is very important for maintaining soil fertility and bumper crop production.

In the recent time, the importance of micro-nutrients has gained in the production of irrigated and horticultural crops and for that, Rs. 200/- is charged for the analysis of Zinc, Iron, Copper and Manganese (Rs.100/- for particular component). The facility for micronutrients analysis has been made available in all 31 laboratories in the state.

Rs. 50/- per water sample is charged for testing the properties like acid-alkali index, the total solubility of the soil etc. as the farmer must be aware of the water quality used for irrigation. The testing facility is made available in all laboratories.

State Plan for the State :-

(A) Soil Survey and Demonstrative Soil Analysis Laboratory Scheme :-

The grant is made available under the scheme Soil Survey and Demonstrative Soil Analysis Laboratory for maintaining daily expenditure of the laboratory, surveillance and salary/wages of all employees, laboratory rent, other contingencies etc.

The main components are as below-

- | | |
|--|---|
| 1) 01- Salary | 2) 02-Approval |
| 3) 03- Overdue Allowances | 4) 06- Telephone, Electricity & Water charges |
| 5) 11- Travelling Allowance within the country | 6) 13- Office Expenditure |
| 7) 14- Rent and Taxes | 8) 16- Publications |
| 9) 21-Goods and Supplies | 10) 27-Minor Constructions |
| 11) 51-Motor Vehicles | |

Sr. No.	Name of the scheme	Actual Expenditure 2019-20	Actual Expenditure 2020-21	Approval provision 2021-22	Proposed 2022-23
1.	(00) 101, Soil Survey Soil Testing, (00)(02) Soil Survey & Soil testing laboratory voted (2402-0032) Non-planning	2926.12	2928.46	2928.46	3281.49
2.	Agril. Growth Plan - Soil Health Card (CSS) 60:40 % Cental : State (2402 A041) (2402 A059)	1424.47	723.41	1333.00	3713.40
3.	Soil Health Mangement (Sub-mission) 60:40 % Cental : State (2402-1046) (2402 A012)	..	150.00	5.00	500.00

(B) Soil Health Card Scheme -

Soil Health Card Mission - Realizing the importance of soil testing, Maharashtra Government has taken a decision to provide Soil Health Card to all farmers. The current SHCs are issued for one season soil testing and to suggest recommendations for the next season. During the year 2015-16 to 2016-17, all farmers are benefited for SHCs by drawing one sample from 2.5 ha. area under irrigated land and 10.00 ha. area under rainfed and guided them accordingly for proper use of ferlisers and from the year 2015-16, Central Govt. has launched new scheme which is in the pattern of 60:40 ratio (CSS /SS).

There are total 255 soil testing laboratories in the state, out of which, 31 Govt. labs and 224 registered Non-govt. labs are running smoothly with Annual Capacity of 22.50 lakh samples testing.

In the year 2015-16 and 2016-17 (1st Cycle), total 27.22 lakh samples has been tested even the target was of 23.47 lakh and distributed SHCs to 131.45 lakh farmers.

The 2nd Cycle (2017-18 and 2018-19) of the scheme has commenced from April 2017 and total 27.82 lakh soil samples are drawn from the target of 28.52 lakh samples and total 130.53 lakh SHCs has been distributed amongst farmers out of 130.98 lakh SHCs target.

Soil Health Card (Pilot Project) during 2019-20

"Development of Model Village" is to be taken of where soil samples collection will be from individual farmer holding with farmers participation under the pilot project of Soil Health Card scheme one village per block (351) is to be adopt for holding based about 2.07 Lakh soil sample testing, for each adopted village organization of demonstration, organization of farmers mela in each adopted village for awareness creation among the farmers. Under this scheme upto 25 Feb. 2020, 2.01 lakh Soil sample tested & 2.01 lakh Soil Health Card distributed among the farmer.

For year 2019-20 GOI has sanctioned annual action plan (AAP) of Rs. 1424.47 lakh for components micronutrient, bio-fertilizer and Soil ameliorants distribution & farmer mela. In year 2020-21 SHC scheme under NMSA GOI has approved/sanctioned annual action plan of Rs. 948.75 lakh for components SHC based 1.00 ha. demonstration per village & One farmer training per village.

Soil Health Card scheme Under NMSA

Soil Health Card scheme 2020-21 -

Due to Covid-19 situation in the year 2020-21, GOI has instructed for not drawing soil samples, testing & distribution of SHC to farmers in selected 3509 village of 351 Blocks of state. Each village one demon strations & one farmer training orgnised.

Bhoomi Poshan Abhiyan 2021-22

In the year 2021-22 Soil Health Card scheme and Soil health Management Scheme are together proposed with name "Bhumi Poshan Abhiyan 2021-22" by Gol. State has proposed programme of Rs. 386.36 lakh for year 2021-22.

(C) Soil Health Management Scheme -

The project of National Soil Health and Fertility Management has launched on National & State level since 2014-15 for promotion of Integrated Nutrients Management and Balanced Use of fertilisers which is the main theme of crop production. As this matter is fulfilled, Govt. has taken over this aspect in new manner by taking some components of this old scheme and started the scheme, Soil Health Management under National Mission for Sustainable Agriculture with 60:40 ratio (CSS:SS) and the main aspect of this scheme is as under-

1. Mobile and stable labs should be established for creating soil testing facilities.
2. Strengthening of Govt. Soil Testing Laboratories.
3. To arrange farmers training on the basis of Integrated Nutrients Management and Balanced Use of fertilisers.
4. To arrange officers & staff training on the basis of Integrated Nutrients Management and Balanced Use of fertilisers.
5. To arrange crop demonstration programme on the basis of Integrated Nutrients Management and Balanced Use of fertilisers.
6. To establish Fertiliser Control Laboratory.

Budgetary provision of Rs. 1200.00 lakh was made (Rs. 720.00 lakh Central Share & Rs. 480.00 lakh State Share) in the year 2017-18 for establishing soil testing laboratory, Setting up of Mini Lab and Strengthening of Govt. Soil & fertilisers labs etc. In the year 2018-19, total Rs. 775.20 lakh has proposed under the component of Strengthening of Govt. Soil & fertilisers labs (Rs. 465.12 lakh Central Share & Rs. 310.08 lakh State Share).

(D) Other Functions -

a) To prepare blockwise & districtwise Fertility Index & Fertility level of principal nutrients- Fertility Index & Fertility level of concerned districts are fixed on the basis of samples tested in district soil survey & soil testing laboratories & private labs in that particular year. This fertility index is used for fertiliser doses recommendations and to plan organic, chemical and bio-fertilisers necessity at state level and to decide supply strategy.

b) To confirm districtwise Decrease/shortfall level of micro-nutrients-

Facilities of Zinc, Iron, Copper and Manganese testing are made available in each Govt. & Private laboratory and districtwise shortfall level of micronutrients are fixed which is used for micronutrient fertilisers and to guide farmers and to plan organic, chemical and bio-fertilisers necessity at state level and to decide supply strategy.

2. Progress Report -

Soil & Water Samples testing report - March 2021 Progressive Report of DSSO labs from 01/04/2020

Sr. No.	District	General Soil			Micro-nutrients			Special			Water			Revenue (Rs. in lakh)
		Target	Achie.	Tested	Target	Achie.	Tested	Target	Achie.	Tested	Target	Achie.	Tested	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
M.S.	34	200000	42215	31718	200000	10477	9565	20000	10597	10464	20000	4541	4541	53.51

Target of general and micro-nutrient samples are same.

Paramparagat Krishi Vikas Yojana (Organic Farming) under NMSA

Paramparagat Krishi Vikas Yojana is being implementing by funding pattern of Central & State share as a 60:40 ratio through cluster approach 50 farmers in a cluster of 50 acres of land are covered. The benefits of the scheme will be given in three consecutive years for each cluster.

Objectives of the Scheme -

Encourage the farmers for preparation of Organic Inputs on farmer's fields and supply of Organic inputs, Organic certification through Participatory Guarantee System (PGS-India), to develop organic village, to arrange trainings and demonstrations, packing labelling, branding & market management are the major objectives of this scheme.

Status of the Scheme - Year wise Scheme progress is as follows--

Year	No. of groups	No. of Beneficiaries	Area in Ha.
2016-17	932	40762	20346
2017-18	326	11803	7160
2020-21	350	7341	7000
2020-21	20	565	400
Total	1628	60471	34906

* **Organic Certification** : Total area under Certification is 5.37 lakh ha. out of that 1.65 lakh ha area under PGS-India and 3.72 lakh ha area under National Programme for Organic Production (NPOP)

* 39,267 farmers are registered on Jaivik Kheti portal.

Component wise planning of paramparagat Krishi Vikas Yojana during 2021-22

(Rs. in Lakh)

Sr. No.	Components	Scheme Year	Groups (No.)	Central Share 60%	State Share 40%	Total
1.	Paramparagat Krishi Vikas Yojana	(3rd Year)	932 Groups	4.00	2.66	6.66
2.	Paramparagat Krishi Vikas Yojana	(3rd Year)	326 Groups	186.379	124.53	311.32
3.	Paramparagat Krishi Vikas Yojana	(1st & 2nd Yr.)	350 Groups	341.86	227.90	569.76
4.	Paramparagat Krishi Vikas Yojana (Aspirational Dist.)	(1st & 2nd Yr.)	20 Groups	63.32	42.22	105.54
Total		--	--	596.01	397.29	993.30

Dr. Panjabrao Deshmukh Jaivik Sheti Mission

Dr. Panjabrao Deshmukh Jaivik Sheti Mission Scheme is being implementing by 100% State Sponsored scheme through cluster approach. 50 farmers in a cluster of 50 acres of land are covered. The benefits of the scheme will be given in three consecutive years for each cluster. In first phase the programme area will include the six distressed districts in the Vidarbha region, namely Buldana, Akola, Washim, Amravati, Yavatmal and Wardha.

Components of the Scheme - Encourage the farmers for preparation of Organic Inputs on farmers' field and supply of Organic Inputs. Monitoring System, Long term trainings, Lead resource person system, Third party Certification, Market & Sales management of Organic goods through Cluster Aggregation Centre. Farmer Producer Company concept, Primary and Secondary processing industry setting up, exit plan etc. are the main components.

Status of the Scheme : In the year 2020-21 total 355 groups are formed and in the year 2021-22 new 45 groups will be formed.

Physical & Financial Programme of the Scheme for the year 2021-22 :

Sr.No.	Components	Groups (No.)	Financial Programme (Rs. Lakh)
1.	Dr. Panjabrao Deshmukh Jaivik Sheti Mission (2nd Yr.)	355	} 1000.00
2.	Dr. Panjabrao Deshmukh Jaivik Sheti Mission (1st Yr.)	45	
Total		400	1000.00

Rashtriya Krishi Vikas Yojana - Remunerative Approaches for Agriculture and Allied Sector Rejuvenation (RAFTAR)

Rashtriya Krishi Vikas Yojana was initiated in 2007 as an umbrella scheme for ensuring holistic development of agriculture and allied sectors by allowing states to choose their own agriculture and allied sector development activities as per the district/state agriculture plan.

The scheme has come a long way since its inception and has been implemented across 11th and 12th five year plan. During this period projects were implemented in the sectors of crop development, horticulture, agricultural mechanization, natural resource management, marketing & post-harvest management, animal husbandry, dairy development, fisheries, extension etc. Till 2013-14, the scheme was implemented as an Additional Central Assistance (ACA) to State Plan Scheme with 100% central assistance. It was converted into a Centrally Sponsored Scheme in 2014-15 also with 100% central assistance. Since 2015-16, the funding pattern of the scheme has been altered in the ratio of 60:40 between Centre and States. From 2017-18 the Funding received in the proportion of General SC & ST Categories.

Based on feedback received from States, experiences garnered during implementation in the 12th Plan and inputs provided by stakeholders, RKVY guidelines have been revamped as **RKVY-RAFTAR-remunerative Approaches for Agriculture and Allied sector Rejuvenation** to enhance efficiency, efficacy and inclusiveness of the programme for the remaining period of the Fourteenth Finance Commission.

Objectives-

1. Aims at making farming a remunerative economic activity through strengthening the farmers' effort, risk mitigation and promoting agri-business entrepreneurship.
2. To strengthen the farmers' efforts through creation of required pre and post-harvest agri-infrastructure that increases access to quality inputs, storage, market facilities etc. and enables farmers to make informed choices.
3. To provide autonomy, flexibility to States to plan and execute schemes as per local/farmers' needs.
4. To promote value chain addition linked production models that will help farmers increase their income as well as encourage production/productivity.
5. To mitigate risk of farmers with focus on additional income generation activities - like integrated farming, mushroom cultivation, bee keeping, aromatic plant cultivation, floriculture etc.
6. To attend national priorities through several sub-schemes.
7. To empower youth through skill development, innovation and agri-entrepreneurship based agribusiness models that attract them to agriculture.

As per revised RKVY RAFTAR guide lines fund Allocation pattern

Sr. No.	RKVY RAFTAR allocation (in 60:40 Sharing pattern)	Percentage of allocation
I	Regular RKVY allocation for FY 2018-19	70
1.	A Infrastructure and Assets	50
	i. Pre-harvest Infrastructure (PH)	20
	ii. Post-harvest Infrastructure (POH)	30
	iii. General Infrastructure (GI)	50
	B Value addition linked production projects (PPPIAD) (Agri Business)	30
	C Flexi fund (Production) (P)	20
	Total (A+B+C)	70
2.	Special Sub - Schemes	20
3.	Innovative and Agril - Entrepreneurship Development	10
	Total (1+2+3)	100

In the RKVY, the State Agricultural plan has been prepared from comprehensive district agricultural Plan for the development of Agriculture and Agriculture Allied sector in each district. Infrastructure Development Plan has been included in the 12th Five Year Plan. While preparing the plan, not only agriculture but it includes agriculture allied department like Animal Husbandry, Fisheries, Dairy, Minor Irrigation, Water Conservation and Co-operative Departments, Sericulture etc. keeping in view the natural resources and technology possibilities in each District combined together. It has now been instructed to submit the revised projects of the state for the period 2017-18 to 2021-22 to be included in C-DAP. Action is being taken as per instruction from Gol.

Under RKVY upto 2014-15 -100% central assistance was given. Since 2015-16, the funding pattern of the scheme has been altered in the ratio of 60:40 between Central : State targeting 4% GDP in Agriculture and Agriculture allied department. State has given liberty to select projects as per state need, as per natural resources available at State & District level.

Since from 2007-08 to 2021-22, State level Sanctioning Committee given sanction to different project .submitted by Agriculture & Agriculture allied department & funds are made available to them as per received from Government. Project wise detail is as follow. (Upto 25th January, 2022.)

Year wise Financial abstract from 2007-08 to 2021-22

(Rs. In crore)

Sr. No.	Year	Project Cost Sanction by SLSC (New project)	Fund Sanctioned by GOI	Central (60%)	State (40%)	Total	Expenditure	UC Submitted
1.	2007-08	132.10	128.20	..	..	128.20	128.20	128.20
2.	2008-09	388.87	261.77	..	..	261.77	261.77	261.77
3.	2009-10	409.81	404.39	..	..	404.39	404.39	404.39
4.	2010-11	1074.35	653.00	..	..	653.00	653.00	653.00
5.	2011-12	1198.52	727.67	..	..	727.67	727.67	727.67
6.	2012-13	763.71	1058.58	..	..	1058.58	1058.58	1058.58
7.	2013-14	849.71	1014.22	..	..	959.69	959.69	959.69
8.	2014-15	1063.46	1025.99	..	..	942.09	942.09	942.09
9.	2015-16	1212.21	730.00	438.00	292.00	730.00	730.00	730.00
10.	2016-17	442.34	708.00	250.91	167.27	418.18	418.18	418.18
11.	2017-18	1408.26	650.02	398.61	265.74	664.35	664.35	664.35
12.	2018-19	290.08	406.75	244.06	162.70	406.76	404.57	404.57
13.	2019-20	332.70	418.44	253.54	169.03	422.57	409.67	409.67
14.	2020-21	8.12	478.90	199.61	133.07	332.69	131.65	103.08
15.	2021-22	128.35	401.82	..	..	..	..	..
TOTAL		9702.59	9066.95	1784.73	1189.81	8109.93	7893.81	7865.24

- Note-**
1. Up to 2014-15 100% Central assistance.
 2. From 2015-16 Submitted Funding Pattern 60:40 Central : State.
 3. For year 2021-22 grant yet to be received.

RKVY Agency Wise Project Sanction for 2021-22

Sr. No.	Name of Agency/Project	Sanction Year
1.	Construction of new Irrigation Well for Scheduled caste and Scheduled Tribes farmer having annual income up to Rs. 1.50 lakh.	2019-20
2.	Construction of new Irrigation Well for Scheduled caste and Scheduled Tribes farmer having annual income up to Rs. 1.50 lakh.	2021-22
i Director (Extension)		
3.	Establishment of Biological Control Laboratory for mass production of bio-agents against sugarcane insect pests and diseases and dissemination of technology for enhanced cane and sugar productivity in Maharashtra (IISR, Lucknow).	2017-18
4.	Agriculture Mechanization	2021-22
ii Director (Q. C.)		
5.	Construction of training/conference hall at KVK Ghatkhed, Amravati.	2018-19
iii Director (ATMA)		
6.	Turmeric mechanization and post-harvest management project	2017-18
7.	Development of multi chamber and multi commodity cold storage with export assisting infrastructure and processing unit at Vashi, Navi Mumbai.(NAFED).	2019-20
iv Director (Planning & Processing)		
8.	Low cost Onion Storage Structure	2021-22
9.	Financial assistance for protected cultivation	2021-22
10.	Value chain intervention in Onion through Building Storage Structure (<i>Nafed- MahaFPC</i>) :	2018-19
11.	Financial assistance for protected cultivation	2019-20
12.	Grading, sorting and aseptic processing of fruits and vegetables linked with backward integration.	2019-20
13.	Punyashlok Ahilyadevi Holkar Nursery Scheme (NHM)	2021-22
14.	Individual Farm Pond lining	2021-22
v MD (MSHMPB)		
1 Commissioner Agriculture		
15.	Transfer of integrated crop management and technologies developed by PDKV Akola.	2015-16
16.	Adoption of high yielding varieties of Mustard along with low cost production technology in Four District of Nagpur Division	2021-22
17.	Establishment of Pesticide Residue Testing laboratory for monitoring of Toxicants in commercial crops of Vidarbha Region	2021-22
18.	Establishment of Breeder Seed & Certified Seed Production Centre of Groundnut, Safflower & Sunflower at Dr. PDKV Akola	2021-22
i Dr. Panjabrao Deshmukh Krishi Vidyapeeth, (PDKV) Akola		
19.	Strengthening of Laboratory at Khar Land Research Station, Panvel and capacity building of farmers in soil health and fish production.	2017-18
20.	Production of bio formulations using advanced techniques on commercial scale for enhanced plant health and productivity	2021-22
21.	Facilitation for Value addition in Manga Bamboo to generate bamboo entrepreneurs in Kokan Region.	2021-22
ii Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, (BSKKV) Dapoli		
2 MCAER (SAUs)		
22.	Setting up of grain cleaning unit in 31 APMCs including Civil work Machinery & Electrical works	2017-18
23.	Setting up of godowns in 108 APMCs for implementing agriculture produce pledge loan scheme in the state of Maharashtra.	2017-18

Sr. No.	Name of Agency/Project	Sanction Year
3	MD (Maharashtra State Agriculture Marketing Board)	
24.	Development of multi chamber cold storage with PHM infrastructure & processing unit at 8 centers in MSWC. (29 SLSC revised name)	2017-18
25.	Development of Agro warehousing & logistic park at Jhambargaon, Aurangabad.	2021-22
4	MD (Maharashtra State Warehousing Corporation)	
26.	Creation of BSL-III Laboratory for Avian Influenza and other Zoonotic pathogens at Disease Investigation Section, Aundh, (DIS). (revision in project cost 29 SLSC Rs.5.615 Cr)	2016-17
27.	Dairy development programme in Vidharbha & Marathwada Region.	2017-18
28.	Establishment a National Reference Testing Laboratory for Veterinary Biological in Institute of Veterinary Biological Products, Aundh.(IVBP)(revision in project cost 29SLSCRs 2.35 cr.)	2017-18
29.	PPP goat farming project at Solapur district by Srujan Organic commodities Pvt. Ltd. Solapur.	2019-20
30.	Improving A. I. Delivery System	2021-22
31.	Construction of training centre & administrative building of Maharashtra state veterinary council Nagpur (For continuous education of registered veterinary practitioners of MS)	2021-22
5	Commissioner (Animal Husbandary)	
32.	Modernization and Capacity enhancement of dairy unit of Jalgaon district coop, milk union.	2016-17
33.	Modernization and Capacity enhancement of the milk processing and by product unit of Jalgaon district coop, milk union.	2016-17
34.	Expansion of existing Dairy Processing Plant from 30 TLPD to 1 LLPD, Marathwada Agro Process farmer Producer company Ltd. Kalamb Dist. Osmanabad	2019-20
35.	Construction of new Dairy Processing Unit of 10 TLPD, Dattasai Multi State Co-op. Milk & Milk Products Ltd., Chilwadi Tal: & Dist: Osmanabad.	2019-20
36.	Construction of new Dairy Processing Unit of 25 TLPD, Rajamrut Multistate Co.op. Milk Union Ltd., Phulambri, Dist. Aurangabad	2019-20
37.	Financial assistance under the scheme of RKVY Yojana for establishment of Dairy unit and other allied items at shri. Tatyasaheb Korenagar, at Warnanagar Dist Kolhapur.	2019-20
38.	Setting up of BMC along with AMC & Milk Processing Plant 100 TLPD capacity M/s. Subhash Anna Kul Co-op. dudhutpadak & processing Ltd. Galandwadi, Tal. Daund, Dist. Pune.	2020-21
39.	M/s. Shree Chatrapati Shahu Milk & Agro producer company Ltd, Vhannur. Distt.- Kolhapur for expansion & modification of Main Dairy & Milk Prodcets Manufacturing Plant from 50 to 100 TLPD	2021-22
40.	M/s Vaijanagth Milk & Milk product producer company Ltd, Shinoli, Ta. Chandgad, Dist. Kolhapur for expansion of Main Dairy plant from 15 to 50 TLPD.	2021-22
6	Commissioner (DD)	
41.	Strengthening of Fishery Training institute. Exhibition Hall and museum at Alibag Dist. Raigad. (Resanction in 29 SLSC)	2010-11
42.	Providing infrastructure & post harvesting facility to fishermen at 6 fish landing centers	2016-17
43.	Pilot Project of Fish Feed Mill Plant	2017-18
44.	Assistance to the Fishermen Seed Production Centre & Portable Hatcheries.	2017-18
45.	Assistance to inland Fish farmer for Fingerling Rearing	2017-18
46.	Mesh Size Regulation at Cod End for Sustainable Fishing in Marine Sector	2017-18
7	Commissioner (Fisheries)	

Prime Minister Formalisation of Micro Food Processing Enterprises Scheme (PMFME)

Prime Minister Formalisation of Micro Food Processing Enterprises (PMFME), a Centrally Sponsored Scheme, will be implemented on an ODOP-One District One Product basis for a period of five years from 2020-21 to 2024-25. The scheme will be implemented for food processing industries in the unorganized sector. Under this Scheme expenditure ratio between Central and State Government is 60:40.

Under this scheme perishable agricultural commodities like fruits and vegetables, food grains, pulses, oilseeds, spice crops, fisheries, dairy, minor forest products etc. will be covered. Individual beneficiaries, farmers, youths, Women, Farmer Producer Groups/Companies/Institutes, Self-help groups and producer cooperative can take part in the scheme. The Scheme has been approved by GoM with GR dated on 23.12.2020 for the State of Maharashtra.

Increased access to credit by micro food processing entrepreneurs, FPOs, Self Help Groups and Co-operatives is the basic objective of the scheme. This scheme is implemented throughout 36 districts (Including Mumbai and Mumbai suburban) of the State. Maharashtra has got a target of empowering 21998 micro food processing industries with financial outlay of 921.53 cr. in 5 years.

Support under Scheme :

> Individual micro food processing units would be provided credit-linked capital subsidy @35% of the eligible project cost with a maximum ceiling of Rs.10.0 lakh per unit.

> Support for capital investment and common infrastructure would be provided to FPOs/FPCs, SHGs, cooperatives, any Government agency or private enterprises. Credit linked subsidy would be available @ 35%. Maximum limit of grant in such cases would be as prescribed.

> Seed capital @ Rs.40,000/- per member of SHG for working capital and purchase of small tools would be provided under the scheme. This component is implemented through Maharashtra State Rural Livelihood Mission (MSRLM) in rural areas and through Maharashtra State Urban Livelihood Mission (SULM) in urban areas of the State.

> Support for branding and marketing would be 50% of the total expenditure. Maximum limit of grant in such cases would be as prescribed.

> Also emphasis will be given on training and capacity building of beneficiaries and the major stake holders involved in implementation of the scheme with 100% Subsidy.

> For incubation centre- 100% Subsidy to Government institution, 50% for private institution and 60% to SC/ST institution with maximum ceiling of 275.00 lakh.

Allocation by Government in 2020-21 and 2021-22 (Rs. Lakh)

Year	Sanctioned PIP by GoI	Administrative sanctioned by GoM	Received Funds	Expenditure	Remark
2020-21	4431.59	0.00	2757.46	1993.33	100% Expenditure in the 2020-21 is incurred by the Govt. of India. The expenditure made in the first year would be adjusted in 60:40 ratio in the funds being transferred to the States equally in the next four years.
2021-22	21266.00	6808.35	2207.41	106.67	

Chief Minister Agro and Food Processing Scheme

Chief Minister Agro and Food Processing Scheme launched *vide* G.R. 20th June 2017 from financial year 2017-18 for next 5 years, and Government of Maharashtra provides budget of Rs. 50.00 crore per annum. This scheme involves processing units of fruits, vegetables, cereals, pulses, oilseed products etc.

Components of scheme- Three components are involved under this scheme,

- **Component 1** - Establishment of Agro and Food processing units, their up-gradation and modernization.
- **Component 2** - Cold Chain Scheme.
- **Component 3** -Generation and Development of training manpower.

Financial demand for year 2021-2022 and 2022-23 proposed programme of Chief Minister Agro and Food Processing Scheme

(Rs, in Lakhs)

Sr. No.	Year	Financial Demand	Remark
1.	2020-21	6000.00	Out of 6000.00 lakh budgetary Provisions, Received administrative approval to Rs. 1980.00 lakhs out of this Rs. 1500.00 lakhs grants received & expenditure is Rs. 1500.00 Lakh.
2.	2021-22	7500.00	Received administrative approval to Rs. 7500.00 Lakh
3.	2022-23	7500.00	Proposed Plan

Buffer stocking of Chemical fertilizers.

1. Object of the Scheme -

To avoid fertilizer shortage during Kharip & rabi season, buffer stock of fertilizers is made through Nodal agency.

2. Subject of scheme -

1) MAIDC, Maharashtra State Co-operative Marketing Fedration and Vidarbha Co-operative Marketing Fedration are the nodal agencies. Bank guaranties is given to them for fertiliser purchase.

2) Expences on transport of fertiliser, loading and unloading of fertiliser in godowns are given to these agencies.

3. Brief note of scheme - If, required allocation of chemical fertilizer is not. made by GOI during Kharif or Rabi season, then there is possibility of shortage of fertilizer. To avoid this, buffer stocking of fertilizer is required. Accordingly decision about buffer stocking is taken by Cabinet Subcommittee constituted for this purpose.

4. Rs. 2000.00 lakhs has been Sanctioned for the year 2021-22.

Rs. 2000.00 lakhs has been proposed for the year 2022-23.

National Mission for Sustainable Agriculture Under Rainfed Area Development (RAD)

National Mission for Sustainable Agriculture is initiated by the Central Government from the year 2014-15. This mission includes **Rainfed Area Development (RAD)** component.

In Maharashtra, 83% net sown area is under rainfed agriculture. About 52% area is draught prone which is characterized by inadequate and erratic rainfall coupled with high evapo-transpiration rate, eroded soils and high frequency of draught year. Considering this facts, it is very important for Maharashtra to concentrate on Development of rainfed area to utilize the natural resources optimally in sustainable manner so as to provide livelihood and economic stability to farmers.

Rainfed agriculture is risk prone activity, mainly due to its dependence on climate and recent extreme climate change events are creating panic situation of the farmers. To minimize the risk providing agriculture based income generating opportunities and sustaining the rainfed agriculture through optimum utilization of potential of natural resources and resources created through various interventions, in this context RAD component have special significance to Maharashtra.

Rainfed Area Development is one of the four components under National Mission For Sustainable Agriculture (NMSA) which is being implemented from the year 2014-15 in the State.

*** Objectives of Project Rainfed Area Development (RAD) :**

- To utilize potential of natural resources in rainfed area.
- To minimize the adverse impact of possible crop failure due to draught, flood or uneven rainfall distribution.
- Restoration of confidence in rainfed agriculture by creating sustainable employment opportunities.
- Enhancement of farmer's income and livelihood support for reduction of poverty.

• Component Included in Rainfed Area Development (RAD)

1. Integrated Farming System -

- a. Crop based farming System
- b. Horticulture Based Farming System
- c. Dairy Based Farming System
- d. Other Livestock Based Farming System
- e. Agro- Forestry / Silvi Pastural Based Farming System

2. Value Addition and Farm Development Activities -

- a. Apiculture (Bee Keeping)
- b. Silage making
- c. Post harvest & Storage/value addition of NTFP
- d. Green Manuring
- e. Vermi compost Units/organic input production unit, green manuring
- f. Green house & Low Tunnel poly house
- g. Shade net.

Progress of Scheme 2020-21

(Rs. Lakhs)

Sr. No.	Central / State Sponsored Scheme	Sanctioned Programme	Available Grants	Expenditure
1.	Rainfed Area Development under National Mission For Sustainable Agriculture(RAD) 2020-21	2615.52	2548.24	2059.15

Planning 2021-22 & 2022-23

(Rs. Lakhs)

Sr. No.	Central / State Sponsored Scheme	Sanctioned Programme	Available Grants		Expenditure	
			Central Share	State Share	Central Share	State Share
1	2	3	4	5	6	7
1.	Rainfed Area Development (RAD) under National Mission For Sustainable Agriculture (NMSA) 2021-22	2661.22	333.93	222.62	52.62	35.08
2.	Rainfed Area Development (RAD) under National Mission For Sustainable Agriculture(NMSA) 2022-23	2927.34 (Proposed)	0.00	0.00	0.00	0.00

Project on Climate Resilient Agriculture in Maharashtra (PoCRA) (Nanaji Deshmukh Krishi Sanjeevani Prakalp)

The **Project on Climate Resilient Agriculture in Maharashtra (PoCRA)** is a project of Government of Maharashtra with Partnership of World Bank. The project implementation started since 18th May 2018. The total project cost is Rs. 4000.00 Crores (World Bank: INR-2800 Cr. & oM : INR-1200 Cr.) The project is being implemented in 5142 villages in 15 drought prone and salinity affected districts namely Akola, Amravati, Washim, Wardha, Yavatmal, Aurangabad, Buldana, Jalgaon, Jalna, Osmanabad, Hingoli, Parbhani, Nanded, Latur and Beed. The project development objectives (POD) is 'to enhance climate resilience and profitability of smallholder farming system in selected districts in Maharashtra'.

This project Components --

- A - Promoting Climate-Resilient Agriculture System.
- B - Climate-smart Post-harvest Management and Value Chain Promotion.
- C - Institutional Development Knowledge and Policies for Climate-Resilient Agriculture.
- D - Project Management.

Project Benefits --

Benefit to individual farmers, financial assistance to farmer producer companies/farmer groups/self help groups, soil and water conservation works, farm schools, capacity building, agro-climatic advisory services etc. are implemented. Approval for the selection of beneficiaries is given through the Gram Krishi Sanjeevani Samiti established in the respective Gram Panchayat of the selected village. PoCRA-DBT is a portal for applying for project benefits and transfer of funds on completion of work.

Funds Transferred to Beneficiaries --

Through project Rs. 1374.08 crore is disbursed to 3 lakh farmers. The soil and water conservation works of Rs. 19.71 crore are completed and 704 agri business projects are supported with Rs. 68.72 crore.

Project Financial Status --

Budget sanctioned for year 2021-22	Rs. 500.00 Cr.
Grants Received in year 2021-22	Rs. 750.00 Cr.
Revised Supplementary Demand for year 2021-22	Rs. 1350 Cr.
Expenditure incurred in year 2021-22	Rs. 714.46 Cr.
Sanctioned Supplementary Demand for year 2021-22	Rs. 600.00 Cr.
Expenditure incurred till date	Rs. 1635.54 Cr.
Reimbursement from World Bank	Rs. 1136.62 Cr.
Proposed Budgetary Demand for year 2022-23	Rs. 1400.00 Cr.

Project Partnership

ICAR, IIT-Bombay, CSSRI, NBSS & LUP, TISS, YASHADA, GSDA, GIPE, Agriculture University and KKV.

Hon. Balasaheb Thackeray Agribusiness and Rural Transformation (SMART) Project

Background :

Maharashtra has more than 80 percent small and marginal farmers. These farmer are federated into farmer groups and farmer producer companies for aggregation of produce for marketable surplus and marketing. There are approximately 5000 farmer producer companies in Maharashtra as on date. Also, MAVIM has promoted 406 women federations *i.e.* Community Managed Resource Centers (CMRCs) and Maharashtra State Rural Livelihood Mission has promoted 1116 Cluster Level Federations (CLFs). For the development of efficient value chain of commodities grown in Maharashtra, the active participation of these organized Community based organizations is essential. In the backdrop of this scenario Government of Maharashtra has initiated 'Hon. Balasaheb Thackeray Agribusiness and Rural Transformation' (SMART) Project with the financial support of the World Bank.

Objective of the project is 'to support the development of inclusive and competitive agriculture value chains, focusing on small holder farmers and agri -entrepreneurs in Maharashtra'. This would be achieved by expanding access to new and organized markets for producers and enterprises with complementary investments in technical services and risk management capabilities.

Financial Arrangements :

This project is being implemented in the state during 2020-21 to 2026-27 with financial support from the World Bank (International Bank for Reconstruction and Development). Total Project Cost is USD 300 Million (approx. Rs. 2100 Crores) which includes IBRD Loan of USD 210 Million (approx. Rs. 1470 Crores), State share of USD 80 Million (approx. Rs. 560 Crores) and Private sector Contribution of USD 10 Million (approx. Rs. 70 Crores).

Implementation Arrangements :

The project implementation structure is designed to promote the use of existing government machinery at the state, region and district level. Overall management and coordination is the responsibility of the SMART Society. The SMART Society is anchored within the Department of Agriculture, GoM and is the coordinating agency for the agribusiness transformation in the state. Coordination of day-to-day project implementation, planning and scheduling, procurement management, financial control, as well as reporting and monitoring, is the responsibility of the Project Co-ordination and Management Unit (PCMU) of the SMART Society. Eleven Project Implementing Units (PIUs) have been set up within the project implementing agencies participating in the project. These PIUs are housed in the Department of Agriculture, Department of Animal Husbandry, Directorate of Marketing, Maharashtra State Agriculture Marketing Board (MSAMB), Maharashtra State Warehousing Corporation (MSWC), Maharashtra Cooperative Development Cooperation (MCDC), Maharashtra State Cooperative Cotton Growers Marketing Federation (MahaCot), Maharashtra State Rural Livelihood Mission (MSRLM), Village Social Transformation Foundation (VSTF), Mahila Arthik Vikas Mahamandal (MAVIM), and Pune Municipal Corporation. For greater coordination and review of project implementation at the district level, Eight Regional Implementation Units (RIU) and thirty four District Implementation Units (DIU) have been established.

Current Status of the Project :

Government of Maharashtra has approved implementation of the project as per the Project Implementation Plan (PIP) drafted in association with the World Bank vide government resolution dated 11th September 2019. Accordingly the Project Agreement and Loan agreement were signed on 24th January 2020 and the World Bank has declared the project effective from 23rd March 2020. The State Government has sanctioned the total 504 posts for the Project by Government resolution dated on 11th November 2021 .

Under SMART Project, 26 pilot sub-projects of 47 Community Based Organizations (CBOs) from 15 districts have been sanctioned. Approximately 65,000 farmers will be benefited through these pilot sub-projects. These community based organization includes Farmer Producer Companies, Cluster Level Federations promoted by Maharashtra State Rural Livelihood Mission, Community Managed Resource Centres promoted by MAVIM. The cost of these approved 26 sub-project is INR 60.71 crore out of which INR 36.43 crore is Project Grant and INR 24.28 crore is CBO contribution. Out of these 47 CBOs the first tranche of INR 11.74 crore has been disbursed to 26 CBOs.

For agriculture extension support, for the first time the component of “Value Chain Development School (VCDS)” has been implemented for 47 CBOs of pilot sub-projects. Under this component for the FY 2020-21 the expenditure of INR 36.72 lakh has been made by Director, ATMA. For the FY 2021-22, this component is being implemented for 32 CBOs of 15 districts and the cost of INR 145.81 lakhs has been disbursed to Director ATMA for the implementation.

SMART Cotton sub-project is being implemented for 58,268 farmers of 465 villages from 12 districts. Under this component, VCDS are being planned and implemented through Director ATMA and the cost of INR 331.48 lakhs has been disbursed to ATMA. Under this component the trash and contamination free cotton is being produced and will be converted into bales and traded through online marketing platform under SMART Cotton brand by Project Implementation Unit MahaCot.

Project has published the advertisement on 10th September 2020 to get the proposals of Productive Partnership sub-projects and Market Access Plan sub-projects from CBOs and institutional buyers. Project has received the applications from 5667 CBOs. After scrutiny of the applications, 461 CBOs have been qualified and the same have been recommended by the respective Project Implementation Units. The primary approval for preparation of Full Project Proposal (FPP) has been given to these 461 CBOs. The preparation of Full Project Proposal by CBOs with the support of Chartered Accountants and Chartered Engineers is in progress. The online training on preparation of Full Project Proposal has been delivered to the CBO representative and the coordinating officers. The ToT for 100 Master Trainers on FPP preparation has been conducted at VANAMATI. Presently, these Master Trainers are delivering the training to the CBO representatives and the respective implementation unit and supporting them for preparation of FPPs. The FPPs prepared by CBOs and recommended by the Project Implementation Units will be approved by State level Project Approval Committee (SPAC).

In the Financial Year 2020-21, the grant of INR 18.41 crore was approved for the project out of which the expenditure of INR 7.13 crore has been done on different components of the project. For the Financial Year 2021-22, the grant of 142.58 crore has been sanctioned out of which project received INR 12.11 crore. The project is being implemented as per the World Bank’s implementation framework and till date the expenditure of INR 23.91 crore has been done.

Details of Sanctioned Post (Revised Pattern)

Sr.No.	Designation	Sanctioned	Pay-Band	Grade Pay	Revised Pay in Pay Matrix
1	2	3	4	5	6
1	Commissioner of Agriculture	1	37400-67000	10000	S-30 :144200-218200
2	Director of Agriculture	5	37400-67000	8700	S-27 : 118500-214100
3	Joint Director of Agriculture	14	15600-39100	7600	S-25 : 78800-209200
4	Joint Director of Agriculture (ESTT)	1	15600-39100	7600	S-25 : 78800-209200
5	Dy. Superintending Agri. Officer	46	15600-39100	6600	S-23 : 67700-208700
6	Dy. Director of Agri.	202	15600-39100	5400	S-20 : 56100-177500
7	Senior Administrative officer	2	15600-39100	6600	S-23 : 67700-207800
8	Administrative Officer	11	9300-34800	5000	S-18 : 49100-155800
9	Asst. Director (ACC)	2	15600-39100	5400	S-20 : 56100-177500
10	M. A. S. Group-B	800	9300-34800	4600	S-16 : 44900-142400
11	Account officer Class- II	47	9300-34800	4600	S-16 : 44900-142400
12	Asst. Admin. Officer. Class-II	44	9300-34800	4400	S-15 : 41800-132300
13.	Personal Assistant	6	9300-34800	4400	S-15 : 41800-132300
14.	M. A. S. Group-B (J. Agri. Officer)	1652	9300-34800	4400	S-15 : 41800-132300
15	Agri./Junior Engineer	8	9300-34800	4400	S-15 : 41800-132300
16	Agri. Supervisor	2726	9300-34800	4200	S-13 : 35400-112400
17	Agri.-Assistant	11599	5200-20200	2400	S-8 : 25500-81100
	After 7 yrs. of Qualifying service		5200-20200	2800	S-10 : 29200-92300
18	Superintendent	93	9300-34800	4300	S-14 : 38600-122800
19	Assistant Superintendent	404	9300-34800	4200	S-13 : 35400-112400
20	Senior Clerk	883	5200-20200	2400	S-8 : 25500-81100
21	Clerk/Typist	2056	5200-20200	1900	S-6 : 19900-63200
22	Draftman	34	5200-20200	2800	S-10 : 29200-92300
	After 4 yrs. of Qualifying service		9300-34800	4300	S-14 : 38600-122800
23	Tracer	1978	5200-20200	2000	S-7 : 21700-69100
	After 7 yrs. of Qualifying service		5200-20200	2400	S-8 : 25500-81100
24	Asstt. librarian	1	5200-20200	2000	S-7 : 21700-69100.
25	Stenographer (Higher grade)	18	9300-34800	4400	S-15 : 41800-132300
26	Stenographer (Lower grade)	73	9300-34800	4300	S-14 : 38600-122800
27	Steno-Typist	74	5200-20200	2400	S-8 : 25500-81100
28	Driver	603	5200-20200	1900	S-6 : 19900-63200
29	Machineman	1	5200-20200	2400	S-8 : 25500-81100
30	Tiller Operator	15	4440-7440	1300	S-1 : 15000-47600
31	Naik/Daftari	115	4440-7440	1600	S-3 : 16600-52400
32	Peon/Watchman	2852	4440-7440	1300	S-1 : 15000-47600
33	Cleaner	21	4440.7440	1300	S-1 : 15000-47600
34	Mali (Ropmali Helper)	627	5200-20200	1800	S-5 : 18000-56900
35	Trained mazdoor	463	4440-7440	1300	S-1 : 15000-47600
36	Lab. Assistant /Attendent Helper	25	4440-7440	1300	S-1 : 15000-47600
Total		27502			

CHART-2**Summary of Action Plan Regarding Internal Audit**

Sr.	Name of the office	Target in 2022-23 for internal audit of office		
		Previous Year	Current Year	Total Year
1	Divisional joint Director of Agriculture, Thane	2020-21	2021-22	2 Year
2	Divisional joint Director of Agriculture, Nashik	2018-19 2019-20 2020-21	2021-22	4 Year
3	Divisional joint Director of Agriculture, Pune	2019-20 2020-21	2021-22	3 Year
4	Divisional joint Director of Agriculture, Kolhapur	2020-21	2021-22	2 Year
5	Divisional joint Director of Agriculture, Aurangabad	2019-20 2020-21	2021-22	3 Year
6	Divisional joint Director of Agriculture, Latur	2020-21	2021-22	2 Year
7	Divisional joint Director of Agriculture, Amravati	2019-20 2020-21	2021-22	3 Year
8	Divisional joint Director of Agriculture, Nagpur	2020-21	2021-22	2 Year
Total				21 Year

संचालन व प्रशासन
Directorate and Administration

अनिवार्य : Committed
वित्तीय आवश्यकता : Financial Requirements

अ. क्र.	तपशील	प्रत्यक्ष खर्च सन २०२०-२०२१	अर्थसंकल्पीय अंदाज सन २०२१-२०२२	सुधारीत अंदाज सन २०२१-२०२२	अर्थसंकल्पीय अंदाज सन २०२२-२०२३	Details
1	2	3	4	5	6	7
		Actual Exp. 2020-21	Budget Estimates 2021-22	Revised Estimates 2021-22	Budget Estimates 2022-23	
	मागणी क्र. डी-२					Demand No.D-2,
१.	२२३५-सामाजिक सुरक्षा व कल्याण इतर सामाजिक सुरक्षा व कल्याण कार्यक्रम देव संलग्न विमा योजनेनुसार प्रदाने (२२३५ ३१५९)	2360	9760	7320	9760	2235-Social Security & Welfare Other Social Security & Welfare Programme Deposit linked Insurance Scheme. (2235 3159)
	मागणी क्र. डी-३					Demand No.D-3,
	२४०१-पीक संवर्धन					2401-Crop Husbandary
२.	(००) (००१) संचालन व प्रशासन (००) (००१) कृषी आयुक्तालय (भारित) (२४०१ ०१२७)	62	800	600	800	001-Directorate & Administration 001-Commissionerate of Agriculture (committed) (2401 0127) (Charged)
३.	(००) (००१) कृषी आयुक्तालय (२४०१ ०१३६)	3803931	6644800	6303002	6666177	(00) (01) Commissionerate of Agriculture (2401 0136)
४.	(००) (०२) जिल्हा कृषी कार्यालये (२४०१ ०१४५)	7105477	11318738	10741492	11730340	(00) (02) Divisional and District Agriculture Offices. (2401 0145)
५.	(००) (०३) जिल्हा कृषी कार्यालये (२४०१ ०१५४)	89095	158323	150094	171057	(00) (03) District Agriculture Officers. (2401 0154)
६.	(००) (००७) जिल्हा परिषदांना आस्थापना अनुदाने (२४०१ ०१६३)	1184227	1553989	1470834	1691393	(00) (07) Establishment Grants to Zilla Parishads (2401 0163)
७.	(००) (०८) संगणक सेवा-कृषी संचालनालय कार्यालयाच्या संगणकीकरण सेवेवरील खर्च (२४०१ १४७३)	..	112	84	118	(00) (08) Computer Services. Expenditure on Computerisation service in the Directorate of Agriculture (2401 1473)
	१०३ बि-बियाणे					103-Seeds
८.	(००) (०१) तालुका बिजगुण प्रक्षेत्रे (२४०१ ०२६१)	282876	460646	438618	479516	(00) (01) Taluka Seed Multiplication Farm (2401 0261)
९.	(००) (०२) बीज रासायनिक खत नियंत्रण व किडनाशक चाचणी प्रयोगशाळा (२४०१ ०३०५)	202876	263613	242824	267480	(00) (02) Seed testing, Fertilizer Control and Pesticides testing laboratories (2401 0305)

तक्ता-एक (चालू) TABLE-I-Contd.

1	2	3	4	5	6	7
	१०९ विस्तार व शेतकरी प्रशिक्षण					109-Extension & Farmers Training
१०.	(०१) (०१) कृषी विषयक माहिती पथक (२४०१ ०७३५)	6544	10820	9628	11781	(01) (01) Agriculture Information Unit (2401 0735)
११.	(०१) (०२) शेतकरी मासिक (२४०१ ०७४४)	19650	38400	31346	39340	(01) (02) Shetkari Magazine (2401 0744)
१२.	(०१) (४६) वसंतराव नाईक राज्य कृषी व्यवस्थापन व तिच्या सात संलग्न संस्थांना सहाय्यक अनुदान (२४०१ ४२५८)	75589	119932	113025	128556	(01) (46) Grant-in-aid to Vasant Rao Naik Agricultural Management Training Institute Nagpur and its Seven allied Institutes. (2401 4258)
	११० पिकविमा					110 Crop Insurance
१३.	(००) (०८) प्रधानमंत्री पीक विमा योजनेअंतर्गत विमा हत्यासाठी अर्थसहाय्य (राज्य हिस्सा) (२४०१ ए ६६४)	17456741	20000000	20000000	20000000	(00) (08) Premium Subsidy under Pradhanmantri Crop Insurance Scheme (State share) (2401 A 664)
१४.	(००) (१०) प्रधानमंत्री फसल विमा योजनेअंतर्गत पुरक अनुदान (२४०१ बी ०५२)	100000	200000	200000	200000	(00) (10) Supplementary Grant for (2401 B 052)
	मागणी क्र. डी-३					Demand No. D-3
	२४०२-मृद व जलसंधारण					2402-Soil and Water Conservation
	१०१-मृद सर्वेक्षण व चाचणी					101-Soil Survey Testing
१५.	(००) (०२) मृद सर्वेक्षण आणि अन्वेषण व मृद विश्लेषण रसायन प्रयोगशाळा (२४०२ ००३२)	206717	312582	295916	313666	(00) (02) Soil Survey and Trial & Soil Analysis Chemical Laboratories (2401 0032)
	मागणी क्र. डी-३					Demand No. D-3
	२४१५-कृषी विषयक संशोधन व शिक्षण					2415-Agricultural Research and Education
	१२०-इतर संस्थांना सहाय्य					120-Assistance to other Institutions
१६.	महाराष्ट्र कृषी विषयक शिक्षण व संशोधन परिषदेला सहाय्यक अनुदान (२४१५ ००६१)	12010	34552	18161	35193	Grants in aid to Maharashtra Council of Agricultural Education and Research (2415 0061)

तक्ता-एक (चालू) TABLE-I-Contd.

1	2	3	4	5	6	7
	मागणी क्र. डी-७					DEMAND No. D-7
	२७०२ लहान पाटबंधारे					2702 Minor Irrigation
	१०४ आयाकट विकास					104 Ayacut Development
१७.	(००) (०१) अन्विक्षा नि प्रयोग निर्देशन प्रक्षेत्रे (२७०२ १९३३)	1688	3969	3771	6000	(00) (01) Trial Cum Demonstration Farms (2702 1933)
	मागणी क्र. डी-११					DEMAND No. D-11
	७६१० शासकीय कर्मचारी इत्यादीना कर्जे					Loans to Govt. Servants etc.
१८.	२०१ घरबांधणी अग्रीम (७६१० ०२११)	49022	199100	149325	199100	201 House Building Advance (7610 0211)
१९.	२०२ मोटी वाहन खरेदी अग्रीम (७६१० ०२२९)	928	4050	3038	3745	Advances for purchase of motor conveyances (7610 0229)
२०.	२०३ इतर वाहन खरेदी अग्रीम (७६१० ०२३८)	..	25	19	25	203 Advances for purchase of other conveyances (7610 0238)
२१.	२०४ संगणक खरेदी अग्रीम (७६१० १९२२)	440	1835	1376	1835	Advances for purposes of computer (7610 1922)

(कार्यक्रम राज्य हिस्सा) Scheme (State Share)
 वित्तीय आवश्यकता : Financial Requirement :

राज्य (कार्यक्रम) State (Scheme)
 तक्ता-दीन TABLE II

(रुपये हजारत) (Rs. in Thousand)

अ. क्र.	तपशील	प्रत्यक्ष खर्च सन २०२०-२०२१	अर्थसंकल्पीय अंदाज सन २०२१-२०२२	सुधारीत अंदाज सन २०२१-२०२२	अर्थसंकल्पीय अंदाज सन २०२२-२०२३	Details
1	2	3	4	5	6	7
		Actual Exp. 2020-21	Budget Estimates 2021-22	Revised Estimates 2021-22	Budget Estimates 2022-23	
मागणी क्रमांक डी-३						
२४०१ पीक संवर्धन						
१०२-अन्नाधान्य पिके						
१.	(००) (३०) पिकावरील किडयोग सर्वेक्षण व सल्ला प्रकल्प (१०० टक्के राज्य योजना) (२४०१ ए १२४२)	135060	250000	187500	250000	(00) (30) Crop pest surveillance and advisory project (plan) (100% State Plan)(2401 9242)
२.	(००) (३३) कृषी उन्नती योजना राष्ट्रीय अन्न सुरक्षा अभियान-अन्नाधान्य पिके (केंद्र पुरस्कृत योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ए २३४४)	650555	932300	932300	1030000	(00) (33) Krushi Unnati Yojana-National food Security Mission-Food Grain Crops (CSS) (State Share 40%) (2401 A234)
३.	(००) (३४) मुख्यमंत्री कृषी व अन्न प्रक्रिया योजना (१०० टक्के राज्य योजना) (२४०१ ए ७९१)	150000	750000	562500	1150000	(00) (34) Chief Ministers Agriculture and Food processing Scheme (100% State Plan) (2401 A791)
४.	(००) (३६) प्रधान मंत्री सूक्ष्म अन्न प्रक्रिया उद्योग योजना (राज्य हिस्सा ४० टक्के) (२४०१ बी ३४८)	..	333300	333300	600000	(00) (36) Pradhan Mantri Micro Food processing Industry Scheme (CSS) (State Share 40%) (2401 B348)
१०३-बी-बियाणे						
५.	(००) (२७) कृषी उन्नती योजना बियाणे व लागवड उप अभियान (केंद्र पुरस्कृत योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ए १५४)	25707	130000	130000	130000	(00) (27) Krushi Unnati Yojana-Seed Plantation Sub-Mission (CSS) (State Share 40%) (2401 A 154)
६.	(००) (२८) किमान आधारभूत किंमत (एमएसपी) आणि कृषी उत्पादन बाजार समिती आधारभूत दर यामधील फरकाची रक्कम विजोत्पादक शेतकऱ्यांना देण्याबाबत (१०० टक्के राज्य कार्यक्रम (कार्यक्रम) (२४०१ ए १२२)	200000	250000	187500	250000	(00) (28) To give difference between Minimum Support Price (MSP) and Agriculture Produce Market Committee Based rate to seed growing farmers (100% State Plan Scheme) (Scheme) (2401 A 922)

तक्ता-दोन (चालू) TABLE-II-Contd.

1	2	3	4	5	6	7
	१०५-खते व रासायनिक खते					
७.	(००) (३१) डीएपी व मिश्र रासायनिक खतांचा पुरवठा करण्यासाठी येणारा खर्च भागविण्यासाठी अर्थसहाय्य (राज्य) (२४०१ ए०८८)	..	200000	150000	300000	105-Manures and Fertilizers (00)(31) Subsidy to meet expenditure for Supply of DAP and complex fertilizers (Scheme) (2401 8208)
८.	(००) (३६) कृषी उन्नती योजना परंपरागत कृषि विकास योजना (केंद्र पुरस्कृत योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ए०६५)	73313	106600	106600	62400	(00) (36) Krushi Unnati Yojana-Paramparagat Krushi Yojana (CSS) (State Share 40%)(GEN)(2401 A065)
९.	(००) (३७) सेंद्रिय शेती/विषमुक्त शेती (राज्य कार्यक्रम) डॉ. पंजाबराव देशमुख जैविक शेती मिशनसाठी मिशन प्रोजेक्ट मॅनेजमेंट बोर्ड यांना सहाय्यक अनुदान (कार्यक्रम) (२४०१ ए०३१)	21718	100000	75400	100000	(00)(37) Sendriya Sheti/ Vishmukta Sheti (State Scheme) For Implementation of Dr. Panjabrao Deshmukh Jaiwik Sheti Mission Grant in Aid to Mission Project to Management Board (Scheme) (2401 A931)
	१०८-वाणिज्यिक पिके					108-Commercial crop.
१०.	(०१) (१६) कृषी उन्नती योजना-राष्ट्रीय अन्न सुरक्षा अभियान-कापूस (कें. पु. योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ए २५२)	8507	13800	13800	13800	(01) (16) Krushi Unnati Yojana-National Food Security Mission Cotton (CSS) (State Share 40%)(GEN) (2401 A 252)
११.	(०२) (११) कृषी उन्नती योजना-राष्ट्रीय अन्न सुरक्षा अभियान-ऊस-(कें. पु. योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ए २४३)	11349	17200	8154	17200	(02) (08) Krushi Unnati Yojana-National Food Security Mission Sugarcane (CSS) (State Share 40%)(GEN) (2401 A 243)
१२.	(०२) (१२) ऊस पिकांखालील क्षेत्र सूक्ष्म सिंचनाखाली आणण्याची योजना (जिल्हा मध्यवर्ती सहकारी बँकांना देय व्याजाचा राज्य हिस्सा) (कार्यक्रम) (२४०१ ए०१५)	..	1	1	..	(02) (12) Scheme for Micro Irrigation of Sugarcane Crops (State Share of Interest payable to District Central Co-operative Bank) (Scheme)(2401 A815)

तक्ता-दोन (चालू) TABLE-II-Contd.

1	2	3	4	5	6	7
	१०९-विस्तार व प्रशिक्षण					109-Extension and Training.
१३.	(०१) (०३) पीक स्पर्धा (२४०१ ०७५३)	..	36444	18222	66846	(01)(03) Crop Competition (2401 0753)
१४.	(०१) (३९) शेतकऱ्यांचे देशाबाहेर अभ्यास दौरा (राज्य योजना) (२४०१ ४३६५)	..	10000	1	20000	(01) (39) Study tours of Farmers outside the Country. (State Plan) (2401 4365)
१५.	(०१)(४३) कृषी उन्नती योजना राज्याच्या कृषि विस्तार कार्यक्रमाना विस्तार विषयक सुधारणाकारिता सहाय्य उपअभियान (केंद्र पुरस्कृत योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ४४३६)	159960	266600	266600	266600	(01) (43) Krishi Unnati Yojana- Sub Mission on Support to State Agriculture Extension Programme for Extension Reforms (CSS) (State share 40%) (2401 4436)
१६.	(०१)(४७) वसंतराव नाईक राज्य कृषी व्यवस्थापन प्रशिक्षण संस्था (राज्य योजना) (२४०१ २६४९)	..	60000	4500	60000	(01) (47) Establishment of Vasant Rao Naik Krishi Vyavasthapan Prashishan Sanstha (State Plan) (2401 2649)
१७.	(०१)(५३) कृषी उन्नती योजना-राष्ट्रीय विकास योजनेअंतर्गत अर्थसहाय्य (केंद्र पुरस्कृत योजना) (राज्य हिस्सा ४० टक्के) (२४०१ २२७२)	78412	133300	133300	110201	(01)(53)Krushi Unnati Yojana-National Mission on Sustainable Agriculture RAD Prog. (CSS) (State Share-40%) (Gen) (2401 A272)
१८.	(०१)(५४) जिल्हा कृषी महात्सव योजना (राज्य योजना १०० टक्के) (२४०१ २६९१)	..	68000	1	68000	(01)(54) District Agriculture Festival Scheme (State share 100%) (2401 A691)
१९.	(०१)(५५) गट शेतीस प्रोत्साहन व सबलीकरणसाठी शेतकऱ्यांच्या गटशेतीस चालना देणे (राज्य योजना १०० टक्के) (२४०१ २७८२)	412500	750000	450000	350000	(01)(55) Implementation of Group Farming Scheme for promotion and strengthening of Group Farming (State share 100%)(2401 A782)
	११०-पीक विमा					110 Crop Insurance Schemes
२०.	(००) (०६) शेतकरी अपघात विमा योजना (राज्य योजना) (२४०१ ४४२७)	452342	1000000	750000	1000000	(00)(06) Personal Accident Insurance Schemes for Farmers (State Plan) (2401 4427)
२१.	(००) (०७) हवामानावर आधारित फळपीक विमा योजना (राज्य योजना) (२४०१ १४०२)	4909600	2500000	2500000	3000000	(00)(07) Weather Based Fruit Crop Insurance Schemes (State Plan) (2401 9402)

तक्ता-दोन (चालू) TABLE-II-Contd.

1	2	3	4	5	6	7
	११३-कृषी अभियांत्रिकी					113 Agriculture Engineering
२२.	(००)(१६) कृषी उन्नती योजना-कृषी अभियांत्रिकीकरण उप अभियान (कें.पु.यो.) (राज्य हिस्सा ४० टक्के) (२४०१ ८७३६)	234344	400000	400000	440000	(00) (16) Krishi Unnati Yojana-Agricultural Mechanization Sub Mission (CSS) (State Share 40%) (2401 8736)
२३.	(००)(१८) राज्य पुरस्कृत कृषी अभियांत्रिकीकरण योजना (कार्यक्रम) (२४०१ ए९१३)	380000	150000	1125000	4000000	(00)(18)State Sponsored Agricultural Mechanization Scheme (Scheme) (2401 A913)
	११५-लहान/सीमान्त शेतकऱ्यांची आणि शेतमजुरांची योजना					115 Scheme of small/Marginal Farmers and Agricultural Labour
२४.	(००)(०२) नानाजी देशमुख कृषी संजीवनी प्रकल्प (हवामान अनुकूल कृषी प्रकल्प) (बाह्य हिस्सा ७० टक्के) (कार्यक्रम) (२४०१ ए६४६)	4899998	350000	980000	3090000	(00) (02) Nanaji Deshmukh Krishi Sanjivani Prakaipa Project on Climate Resilient Agriculture) (External Share 70%) (Scheme) (2401 A646)
२५.	(००) (०३) नानाजी देशमुख कृषी संजीवनी प्रकल्प (हवामान अनुकूल कृषी प्रकल्प) (राज्य हिस्सा ३० टक्के) (कार्यक्रम) (२४०१ ए६५५)	1798705	150000	370000	1335800	(00) (03) Nanaji Deshmukh Krishi Sanjivani Prakaipa (Project on Climate Resilient Agriculture) (State Share 30%) (2401 A655)
२६.	(००) (०४) महाराष्ट्र राज्य कृषी व्यवसाय व ग्रामीण परिवर्तन (SMART) प्रकल्प (राज्य हिस्सा २७.५९ टक्के) (कार्यक्रम) (२४०१ ए९५१)	32979	425800	319350	300000	(00)(04) State of Maharashtra Agri. Business and Rural Transformation Programme (SMART) (State Share 27.59%) (2401 A951)
२७.	(००)(०५) महाराष्ट्र राज्य कृषी व्यवसाय व ग्रामीण परिवर्तन (SMART) प्रकल्प (राज्य हिस्सा ७२.४१ टक्के) (कार्यक्रम) (२४०१ ए९६९)	151121	100000	210475	700000	(00)(05) State of Maharashtra Agri. Business and Rural Transformation Programme (external Share 72.41%) (Scheme) (2401 A969)

तब्ता-दोन (चालू) TABLE-II-Contd.

1	2	3	4	5	6	7
	८००-इतर खर्च					
२८.	(००)(०२) विशेष घटक योजना-विशेष घटक योजनेखाली बि-बियाणे इ. साठी अर्थसहाय्य (२४०१ २४४२)	245424	300000	295000	400000	800-Other Expenditure (00)(02) 800 Other Expenditure (00)(02) Special Component Plan Input subsidy under S.C.P. (2401 2442)
२९.	(००)(११) कृषी उन्नती योजना-राष्ट्रीय विकास योजनेअंतर्गत अर्थसहाय्य (पंचवार्षिक योजनेअंतर्गत योजना) (राज्य हिस्सा ४० टक्के) (२४०१ ए २२५)	616700	1500000	1500000	1503100	(00)(11) Krushi Unnati Yojana-Financial Assistances under Rashtriya Krushi Vikas Yojana (CSS) (State Share 40%) (2401 A 225)
	मागणी क्र. डी-३					Demand No. D-3
	२४०२-मृद व जलसंधारण					2402-Soil and Water Conservation
३०.	१०१-मृद सर्वेक्षण व मृद चाचणी (००) (१५) कृषी उन्नती योजना-मृदा आरोग्य व्यवस्थापन-उप अभियान (कें.पु.यो.) (योजना) (राज्य हिस्सा ४० टक्के) (२४०२ ए०१२)	6000	20000	19551	20000	101-Soil Survey and Testing (00)(15) Krushi Unnati Yojana-Soil Health Management Sub Mission (CSS) (State Share 40%) (GEN) (2402 A012)
३१.	(००) (१७) कृषी उन्नती योजना-मृदा आरोग्य पत्रिका (कें.पु.यो.) (राज्य हिस्सा ४० टक्के) (२४०२ ए०५९)	28904	53300	17614	53300	(00)(17) Krushi Unnati Yojana-Soil Health Card (CSS)(State Share 40%)(GEN) (2402 A059)
	मागणी क्र. डी-७					Demand No. D-7
	सचिवालयीन-आर्थिक सेवा-३४५१					Secretariat-Economics Services-3451
३२.	(००) (०१) शासकीय कर्मचाऱ्यांना प्रशिक्षण (कृषी) (३४५१ २१६२)	3750	10000	7500	50000	(00) (01) Training for Government Employees (Agriculture) (3451 2962)
३३.	(०४) ई-गव्हर्नन्स कार्यक्रम अंमलबजावणी १७-संगणक खर्च (३४५१ २७८२)	61250	250000	150000	250000	(02) (04) Implementation of E-Governance Programme (Agriculture) 17-Computer Expenses (3451 2782)

केंद्र (कार्यक्रम) Central (Scheme)

वित्तीय आवश्यकता : Financial Requirement : (रुपये हजारों) (Rs. in Thousand)

अ. क्र.	तपशील	प्रत्यक्ष खर्च सन २०२०-२१ Actual Exp. 2020-21	तक्ता-तीन अंदाज सन २०२१-२२ Budget Estimate 2021-22	सुधारीत अंदाज सन २०२१-२२ Revised Estimate 2021-22	अर्थसंकल्पीय अंदाज सन २०२२-२३ Budget Estimate 2022-23	7
1	2	3	4	5	6	
	मागणी क्रमांक डी-३					DEMAND No. 3
	२४०१ पीक संवर्धन					2401-Crop Husbandary
	००१-संचालन व प्रशासन					001-Directorate & Administration
	१०२-अन्नधान्य पीके					102-Food Grain Crops
१.	(००) (२५) कृषी उन्तती योजना राष्ट्रीय अन्न सुरक्षा अभियान-अनन्नाय पीके (कें. पु. यो.) (केंद्र हिस्सा १०० टक्के) (२४०१ ४६१४)	981380	1400000	1400000	2000000	(00) (25) Krushi Unnati Yojana National Food Security Mission
२.	(००) (३५) प्रधानमंत्री सूक्ष्म अन्न प्रक्रिया उद्योग योजना (केंद्र हिस्सा ६० टक्के) (२४०१ बी-३३१)	..	500000	500000	900000	Food Grain Crops (CSS) (Central Share 60%) (SCSP) (2401 4614) (00) (35) Pradhan Mantri Micro Food Processing Industry Scheme (Central Share 60%) (2401 B-339)
३.	१०३-बी बियाणे					103-Seeds
	(००) (२३) निवडक क्षेत्रात बियाणे उत्पादनाचा कार्यक्रम (केंद्र पुरस्कृत योजना) (केंद्र हिस्सा १०० टक्के) (२४०१ ३९९५)	16701	200000	200000	240000	(00) (23) Seed Production Programme in selected area (CSS) (Central Share 100%) (2401 3995)
४.	१०५-खते व रासायनिक खते					105-Fertilizers
	(००) (३५) कृषी उन्तती योजना परंपरागत कृषी विकास योजना (केंद्र पुरस्कृत योजना) (केंद्र हिस्सा ६० टक्के) (२४०१ ए ०५६)	109970	160000	160000	93700	(00) (35) Krushi Unnati Yojana Paramparagat Krushi Vikas Yojana (Centrally Sponsored Scheme) (CSS) (Central Share-60%) (Gen.) (2401 A 056)
५.	१०७-रोप संरक्षण					107-Plant Protection
	(००)(१६)-रोप संरक्षण उप अभियान (१०० टक्के कें. पु. यो.) (२४०२ ९५३६)	..	100	100	..	(00) (16) Plant protection Submission (100% Centrally Sponsored Scheme) (2401 9536)
६.	१०८-वाणिज्यिक पीके					108-Commercial Crop
	(०१) (०२) सधन कापूस विकास कार्यक्रम (केंद्र पुरस्कृत योजना) (केंद्र हिस्सा ६० टक्के) (२४०१ २५४२)	12760	20800	20800	20800	(01) (02) Intensive Cotton Development Programme (CSS) (Central Share 60%)(2401 2542)
७.	(०२) (०८) विदर्भ, मराठवाडा व खानदेश प्रदेशात ऊस विकास कार्यक्रम (कें. पु. यो.) (केंद्र हिस्सा १०० टक्के) (२४०१ ४०५९)	17023	26000	12192	26000	(02) (08) Sugarcane Development Programme in Vidarbha, Marathwada and Khandesh Region. (CSS) (Central Share 100%) (2401 4051)

वित्तीय आवश्यकता : Financial Requirement :

तक्कातीन (चाळू) TABLE III-Contd.

(रुपये हजारत) (Rs. in Thousand)

अ. क्र.	तपशील	प्रत्यक्ष खर्च सन २०२०-२१	अर्थसंकल्पीय अंदाज सन २०२१-२२	सुधारीत अंदाज सन २०२१-२२	अर्थसंकल्पीय अंदाज सन २०२२-२३	Details
1	2	3	4	5	6	7
		Actual Exp. 2020-21	Budget Estimates 2021-22	Revised Estimates 2021-22	Budge Estimates 2022-23	
८.	१०१-विस्तार व प्रशिक्षण (०१) (४४) कृषी उन्नती योजना राज्य कृषी विस्तार कार्यक्रमांना विस्तार विषयक सुधारणां कारिता सहाय्य उप अभियान (कें.पु.यो.) (केंद्र हिस्सा १० टक्के) (२४०१ ४४४५)	240000	400000	400000	400000	(109) Extension & Training. Krishi Unnati Yojana Sub Mission Support to state Ext. Programme for extension reforms (CSS) (Central Share 60%) (2401 4445)
९.	(०१)(५१) राष्ट्रीय शाश्वत शेती अभियान क्षेत्र विकास कार्यक्रम (६० टक्के कें.पु.यो.) (२४०१ ९५५४)	117702	200000	200000	200000	(01)(51) National Mission for sustainable Agriculture Rainted Area Development Programme (Central Share 100%) (2401 9554)
१०.	१११-कृषी अर्थशास्त्र व सांख्यिकी (००) (०९) कृषिविषयक माहितीच्या आकडेवारीची तत्परतेने पुरवठा करणे (कें.पु.यो.) (केंद्र हिस्सा १०० टक्के) (२४०१ २५६९)	3197	40000	40000	46000	111-Agricul. Economic & Statistics (00)(09) Statistics timely reporting of Agricultural Intelligency. (CSS) (Central Share 100%) (2401 2569)
११.	(००) (१०) जागतिक कृषी गणना (कें.पु.यो.)(केंद्र हिस्सा १०० टक्के) (२४०१ ०९९६)	1492	16900	16900	63000	(00) (10) World Agricultural census (CSS) (Central Share 100%) (2401 0996)
१२.	(००) (११) पिकांच्या आकडेवारीत सुधारणा करण्याची योजना (कें.पु.यो.)(२४०१ २५७८)	1669	25500	25500	26000	(00) (11) Scheme for improvement of Crop statistic (CSS) (2401 2578)
१३.	११३-कृषी अभियांत्रिकी (००)(०८) कृषी यांत्रिकीकरणस प्रोत्साहन (कें.पु.यो.) (केंद्र हिस्सा १०० टक्के) (२४०१ २५१२)	351515	600000	600000	660000	113-Agriculture Engineering (00)(08) Promotion of Agriculture Mechanisation (CSS) (Central Share 60%) (2401 2513)
१४.	८००-इतर खर्च (००) (०९) राष्ट्रीय कृषी विकास योजनेअंतर्गत अर्थसहाय्य (कें.पु.यो.) (२४०१ ८२३५)	1787500	2250000	2250000	2500000	800-Other Expenditure (00) (09) Financial Assistance under Rashtriya Krushi Vikas Yojana (CSS) (2401 8235)

वित्तीय आवश्यकता : Financial Requirement :

तक्ता तीन-समाप्त TABLE III-Contd.

(रुपये हजारत) (Rs. in Thousand)

अ. क्र.	तपशील	प्रत्यक्ष खर्च सन २०१९-२०	अर्थसंकल्पीय अंदाज सन २०२०-२१	सुधारीत अंदाज सन २०२०-२१	अर्थसंकल्पीय अंदाज सन २०२१-२२	Details
1	2	3	4	5	6	7
		Actual Exp. 2019-20	Budget Estimates 2020-21	Revised Estimates 2020-21	Budge Estimates 2021-22	
	मागणी क्रमांक डी-३					
	२४०२-मृदा व जलसंधारण					
	१०१-मृदसर्वेक्षण व चाचणी					
१५.	(००) (१३) मृदा आरोग्य व्यवस्थापन उप अभियान (केंद्र हिस्सा ६० टक्के) (२४०२ १०४६)	9000	30000	29335	30000	(00)(13) Soil health Management (SHM) submission (CSS) (Central Share 60%) (2402 1046)
१६.	(००)(१६) कृषी उन्नती योजना-मृदा आरोग्य पत्रिका (कें.पु.गो.) (केंद्र हिस्सा ६० टक्के) (२४०२ ए०४१)	43357	80000	26571	80000	(00)(16) Krushi Unnati Yojana-Soil Health Card (CSS) (Central Share 60%) (GEN) (2402 A 041)

Boardwise Actual Expenditure of Committed for the Financial Year 2020-21 Mandatory Information

(Amount in Rupees)

Sr. No.	Major Head	Total Direct Expenditure	Vidarbha Development Board	Marathwada Development Board	The remaining Maharashtra Development Board	Indivisible	Total	Major Head
1	2	3	4	5	6	7	8	9
1	DEMAND No. D-3							
	a. 2401 Crop Husbandary	30655940018	3717458602	2922588697	24015892719	..	30655940018	DEMAND No. D-3 2401 Crop Husbandary
	b. 2402	206716827	58200727	50754546	97761554	..	206716827	2402
	c. 2415	12009832	..	..	12009832	..	12009832	2415
	TOTAL DEMAND No. D-3	36877466677	3775659329	2973343243	24125664105	..	30874666677	
2	DEMAND No. D-7							
	a. 2702	1687913	..	1687913	..	..	1687913	DEMAND No. D-7 2702
	b. 3451	..	..	..	..	..	..	3451
	TOTAL DEMAND No. D-7	1687913	..	1687913	..	..	1687913	
3	DEMAND No. D-11							
	a. 7610	29463050	5973050	9505700	13984300	..	29463050	DEMAND No. D-11 7610
	TOTAL DEMAND No. D-11	29463050	5973050	9505700	13984300	..	29463050	
	Total	30905817640	3781632379	2984536856	24139648405	..	30905817640	

Note :-

- 1) The expenditure of remaining Maharashtra is due to more than the expenditure of Marathwada and Vidharbha, due to the finding of all major centers and state sponsored schemes. Since RKVY Assistant Director (Accounts-1) is coming out from the Pune treasury on the basis of the Agricultural Commissionerate, Pune-1, there is an additional expenditure on the remaining Maharashtra for the Mahalekhaapaal, Mumbai office. However, the funds generated are distributed in all the districts of Maharashtra.
- 2) The above expenditure does not include district plan (DPDC) arid (RTGS) expenditure.
- 3) The above expenditure does not include other schemes of Agriculture Department i. e. 2053, 2075, 2235, 2245, 2435, 2505, 2251, 4402, 4250, 4515 etc.

Boardwise Actual Expenditure of Scheme for the Financial Year 2020-21 Mandatory Information

(Amount in Rupees)

Sr. No.	Major Head	Total Direct Expenditure	Vidarbha Development Board	Marathwada Development Board	The remaining Maharashtra Development Board	Indivisible	Total	Major Head
1	2	3	4	5	6	7	8	9
1	DEMAND No. D-3 2401 Crop Husbandary 2402 2415	38936387311 87261000 ..	800406663	663995703	37471984945 87261000 ..	.. .. ..	38936387311 87261000 ..	DEMAND No. D-3 2401 Crop Husbandary 2402 2415
	TOTAL DEMAND No. D-3	39023648311	800406663	663995703	37559245945	..	39023648311	
2	DEMAND No. D-7 2702 3451	.. 58732235	.. 3750000	.. ..	.. 54982235	.. ..	.. 58732235	DEMAND No. D-7 2702 3451
	TOTAL DEMAND No. D-7	58732235	3750000	..	54982235	..	58732235	
3	DEMAND No. D-11 7610	..	..	..	..	..	..	DEMAND No. D-11 7610
	TOTAL DEMAND No. D-11	..	..	..	..	..	..
	Total	39082380546	804156663	663995703	37614228180	..	39082380546	

Note :-

1) The expenditure of remaining Maharashtra is due to more than the expenditure of Marathwada and Vidharbha, due to the finding of all major centers and state sponsored schemes. Since RKVY Assistant Director (Accounts-1) is coming out from the Pune treasury on the basis of the Agricultural Commissionerate, Pune-1, there is an additional expenditure on the remaining Maharashtra for the Mahalekhapaal, Mumbai office. However, the funds generated are distributed in all the districts of Maharashtra.

2) The above expenditure does not include district plan (DPDC) arid (RTGS) expenditure.

3) The above expenditure does not include other schemes of Agriculture Department *i. e.* 2053, 2075, 2235, 2245, 2435, 2505, 2251, 4402, 4250, 4515 etc.