

# **AGRICULTURE DEPARTMENT**

**ANNUAL REPORT 2018-19**



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**DEPARTMENT OF AGRICULTURE**

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# **CHAPTER - 1**

## **INTRODUCTION**

The Department of Agriculture being one of the prominent developmental departments is continuously engaged in the service of the farming community. The improved technical know-how and research results emanating from various sources are being implemented in about 121.62 lakh hectares of rainfed and irrigated land and thus enabling 78.32 lakh farming families to obtain higher yields by adoption of improved technologies. To increase the overall Agriculture production, the Department of Agriculture has taken up several schemes in the year 2018-19. During the year 2018-19 it has been estimated to produce a total food production of 106.63 lakh tones as against the target of 135.00 lakh tonnes . This can be attributed to the implementation of special programs like Krishi Bhagya, Establishment of Custom Hiring Centres, Bhoochethana, National e-governance, Bhoosamruddi, RKVY, Organic farming etc., and the timely supply of agricultural inputs like seeds, micro nutrients, bio-fertilizers and p.p chemicals.

To increase food production and maintain food security, the department has taken up several schemes during the year 2018-19; detailed Head of Account wise information of all the schemes is given in Chapter-2.

### **Vision:**

To ensure food security and also to make Agriculture a sustainable and viable vocation for the livelihood by the end of 2020.

### **Mission:**

To enhance agriculture production and improving the income level of farmers by successful implementation of various state and central schemes.

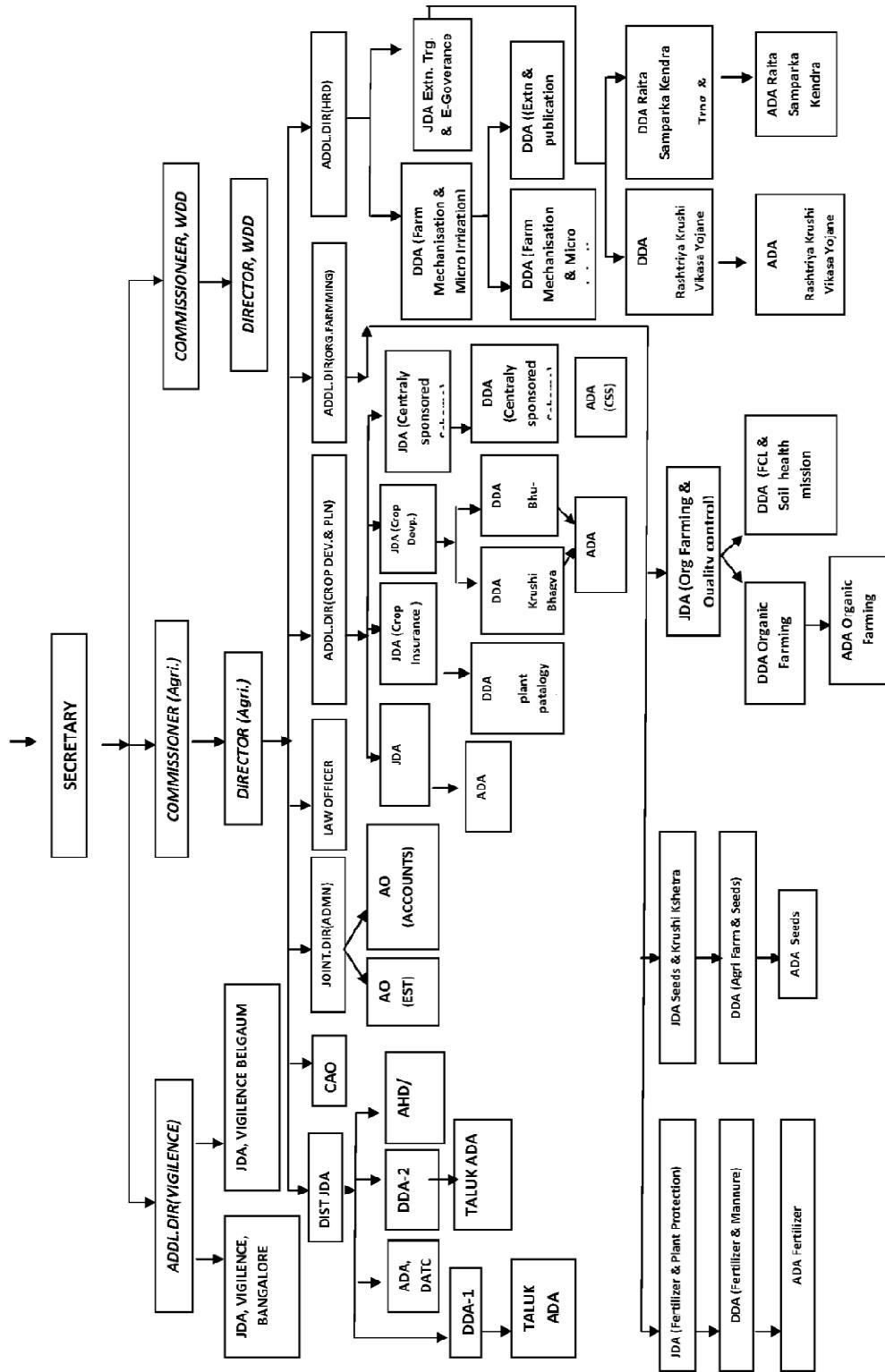
### **Objectives:**

1. Dissemination of technology/information to farmers.
2. Ensure supply of agricultural inputs and their quality control for enhanced production and productivity.
3. Maintenance of soil health.
4. To focus on rainfed farmers and encourage rain water conservation and reuse.
5. Plant Protection and quarantine.
6. To provide implement/ Machinery to the farmers of rural areas intime at subsidised cost.
7. To develop e-portal to receive applications through online under Farm mechanisation and Micro irrigation scheme.

**Functions:**

1. Endeavoring for adequate and timely supply of inputs such as seeds, fertilizers, pesticides, agricultural credit, implements and extension services to farmers.
2. To focus on rainfed farmers and encourage rain water conservation and reuse, Krishi Bhagya scheme is being implemented and Promoting micro irrigation to conserve water and to increase area under protective irrigation.
3. To provide implement/ Machinery to the farmers of rural areas intime at subsidised cost.
4. Encourage Organic Farming on a large scale and developing marketing facilities to organic produce.
5. Enforcement of various acts to ensure supply of quality inputs.
6. Administering the National Agricultural Insurance Scheme (NAIS) to provide relief to farmers in event of crop failure.
7. Assisting the central government in laying down Minimum Support Prices (MSPs) for selected key agricultural commodities to ensure remunerative prices to farmers.
8. Promoting plant protection measures and practices through the dissemination of appropriate technologies.
9. Working towards promotion of production and distribution of quality seeds.
10. Promoting Farm mechanisation to mitigate shortage of farm labour and to reduce drudgery.
11. Transfer of technology from the lab to the land through farm information services, training staff and farmers, laying out demonstrations and arranging study tours to farmers.

## ORGANISATIONAL CHART



## **CHAPTER – 2**

- 1. STATE SECTOR SCHEMES**
- 2. DISTRICT SECTOR SCHEMES**
- 3. CENTRALLY SPONSORED SCHEMES**
- 4. ABSTRACT OF SCHEMES IMPLEMENTED DURING 2018-19**

### **1. STATE SECTOR SCHEMES**

a)	Name of the scheme and year of introduction	Directorate of Agriculture 1. Out source of vehicles and purchase of Furniture to the Head office and subordinate offices 2. Purchase of New vehicles to the offices of the Joint Director of Agriculture and to their subordinate offices
b)	Budget Head	2401-00-001-1-01 (Plan) sub head 051 (State Sector)
c)	If Plan, the Central & State share is	State Sector - Plan (0:100)
d)	Objective of the Programme /project/scheme	Due to unavailability of vehicles and decrease from the year 2002-03 it has been planned to provide vehicles on out source basis to different offices in the department
e )	State& estimated benefit number of estimated beneficiaries from the programme/project/scheme (measurable output at the end of the year)	- Total 120 vehicles (including vigilance) were taken on out.
f)	Financing (Rs. in lakhs)	400.00

g) Expenditure (Rs. in Lakhs)

<b>Actual / Accounts 2017-18</b>		<b>Revised Estimate 2018-19</b>		<b>Budget Estimate 2019-20</b>
<b>Grants</b>	<b>Exp.</b>	<b>Grants</b>	<b>Exp.</b>	<b>Grants</b>
400.00	380.00	400.00	395.00	400.00

h) Physical Achievement (Units in no's)

2017-18		Audit observation
Tar	Ach	
120	120	Nil

i) Brief analysis of the performance trend and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation:

a)	Name of the scheme and year of Introduction	Hiring of manpower services through outsourcing
b)	Budget Head	2401-00-001-1-01 2401-00-109-0-21
c)	Central & State share under the scheme	State Sector Scheme – (0:100)
d)	Objective of the Programme	Hiring of manpower services to the Group-C & D vacant posts in the Department.
e)	Estimated benefit & number of beneficiaries	DEO-168, Drivers-131, Group-D-346, Security Guards-6, Agri Telecallers-06
f)	Financial:(Rs. In Lakhs)	Financial Target for 2018-19 is Rs.10.87 Lakhs

g) Expenditure: (Rs. in Lakhs)

Actual / Accounts 2017-18			Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released		Exp.	Grants released	Exp.	Expected Grants
2401-00-001-1-01	370.31	348.63	850.00	826.64	1124.00
2401-00-109-0-21	186.07	184.00	237.00	176.34	

h) Physical Achievement (Units in no's)

2017-18		2018-19			Audit Observation
Tar	Ach	Tar		Ach	There is no out standing paras in respect of out source staff in this office for the year 2017-18
		2401-00-109-0-21	237	176.34	

a	Name of the scheme and year of Introduction	Commissionerate of Agriculture- Computers and CUG Expenses
b	Budget Head	2401-00-001-0-01 sub head 051 (Plan)
c	Central and State Share under the scheme	State Sector Scheme (0:100)
d	Objective of the Programme	<p>1. To computerize and provide the required IT infrastructure and internet connectivity to all the offices of the Department so as to reduce drudgery and to encourage paper less communication</p> <p>2. To Provide Agriculture information and efficient services at faster rate to farmers by computerizing RSKs.</p> <p>CUG</p> <p>3. In agriculture transfer of technology as early as possible is very essential as crop cultivation activities are weather dependent. In this regard the Department of Agriculture has provided CUG SIM Cards to the Technical Officers so that these officers can be contacted by farmers/extension officers etc., at any point of time to obtain/provide agriculture related information</p>
e	Estimated benefit & number of beneficiaries	<p>1. Computer and peripherals AMC and Repair at District Offices.</p> <p>2. Purchase of Computers and peripherals, consumables and stationeries, Internet Data Cards, AMC and Repair at Head Office</p> <p>3. K-Kisan Project Implementation Expenditures</p> <p>4. Approximately 3000 Officers working in the Department have been provided with CUG SIM Cards</p>
f	Financial: (Rs. in Lakhs)	Financial Target for 2019-20 is Rs. 453.00 Lakhs

g) Expenditure: ( Rs. in Lakhs)

Actual/ Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Expenditure	Grants released	Expenditure	Expected Grants
764.99	723.47	728.00	723.15	453.00

h) Physical Achievements (Units: in Nos)

2017-18		2018-19		Audit Observations
Target	Achievement	Target	Achievement	
-	-	-	-	-

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/ reaching out to the beneficiaries and delay in implementation

-Not Applicable-

a	Name of the scheme and year of Introduction	Raitha Mitra Scheme- Directorate of Agriculture-Plan, (State Sector), 2000-01
b	Budget Head	2401-00-001-1-01, Sub-Head-071-Building Expenditure
c	Central & State share under the State Sector.	State Sector - (100%)
d	Objective of the programme	<p>Agricultural Extension Programme was started during 1977-78, later it was continued as Rashtriya Krishi Vistarna Yojane. Afterwards it was merged with the State Sector and continued from 2000-01.</p> <p>Under this Scheme the amount will be released as per the request of the concerned district Joint Director and taluk Assistant Director to meet the building rent, tax, water connection, electricity, telephone charges and also the maintenance charges of the RSK buildings which are housed in non-departmental buildings</p>
e	Estimated benefit & number of beneficiaries	Under this Scheme the grants utilized for maintenance charges for offices of Asst. Director of Agriculture.
f	Financial (Rs.in lakhs)	Financial Target for 2018-19 is Rs. 150.00 lakhs.

g) Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Expenditure (March 2019 end)	Expected Grants
150.00	109.00	150.00	132.32	152.00

h) Physical Achievements (Units:in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Expenditure (March 2019 end)	
924	685	833	525	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any
				Audit has been completed for the year 2017-18 and there is no Audit observation

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation: Not Applicable

	Name of the scheme and year of Introduction	Commissionerate of Agriculture, "Research and management of saline water in Biosaline Agriculture " 2016-17
b)	Budget Head	2401-00-001-1-01 (plan) sub head 103
c)	If Plan, the Central & State share is	State sector Scheme( 100%)
d)	Objective of the Programme/Project/ Scheme:	<ol style="list-style-type: none"> <li>1. Research on cultivation of Halophytes for reclamation of saline soils.</li> <li>2. Programme should be implemented by Department of Agriculture in co-ordination with State Agricultural Universities and Dr. M.S.Swaminathan Research Foundation, Chennai.</li> <li>3. Capacity building in four State Agriculture Universities in this regard.</li> </ol>
e)	Estimated benefit & number of estimated beneficiaries	<p>MSSRF has identified salt tolerant crops like paddy and other traditional crop varieties including varietal characterization using molecular methods, assess vulnerability of agriculture livelihood systems of coastal communities in Karnataka to the adverse impact of predicted sea level rise and identify suitable areas for cultivation. Further it will also identify different halophytes suitable for biosaline agriculture and appropriate agronomic practices in collaboration with University of Agricultural Sciences, Dharwad and Zonal Agricultural and Horticultural Research Station (ZAHRS),Brahmavar.</p> <p>A rapid field survey was undertaken during January 2017 by MSSRF team along with scientists of UAS Dharwad, UAHS Shivamogga and officials of Agriculture department to identify local salt tolerant rice varieties and other crops in Uttara kannada, Dakshina kannada and Udupi districts.</p>

		Research work on these varieties will start from February 2017 and new varieties will be developed in 3 years
f)	Financing: (Rs. in Lakhs)	Financial Target for 2018-19 is Rs.100.00 lakhs

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants
100.00	100.00	92.31	92.31	100.00

h) Physical Achievements (Units: in nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach	
1	1	1	1	-

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

MSSRF has identified salt tolerant crops like paddy and other traditional crop varieties including varietal characterization using molecular methods, assess vulnerability of agriculture livelihood systems of coastal communities in Karnataka to the adverse impact of predicted sea level rise and identify suitable areas for cultivation. Further it will also identify different halophytes suitable for biosaline agriculture and appropriate agronomic practices in collaboration with University of Agricultural Sciences, Dharwad and Zonal Agricultural and Horticultural Research Station (ZAHRS), Brahmavar. A rapid field survey was undertaken during January 2017 by MSSRF team along with scientists of UAS Dharwad, UAHS Shivamogga and officials of Agriculture department to identify local salt tolerant rice varieties and other crops in Uttara Kannada, Dakshina Kannada and Udupi districts.

a)	Name of the scheme and commencement of the year	Building and Repairs 04-09-1980
b)	Budget – Head of Account	2401-00-001-1-01 (sub-head 200)
c)	Central & State share under the scheme	State 100%
d)	Objective of the programme	Civil works Repairs, maintenance of all Office building in Agriculture Department.
e)	Estimated benefit and no.of beneficiaries	Not applicable

f)	Finance (in lakhs) 2018-19	Sub head 200:626 lakhs
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g.) Expenditure (Rs in lakhs)

Actual /Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released Rs in lakhs	Expenditure Rs in lakhs	Grants released Rs in lakhs	Expenditure Rs in lakhs	Expected grants Rs in lakhs
Sub head 200 : 600	Rs.595.60	Rs.626.00	Rs.625.41.	Rs.626.00

h) Physical achievement (Units : in nos)

2017-18		2018-19		Audit Observations
Target	Achievement	Target	Achievement	Just mention whether Audit has been completed for the year or not mention Audit Observation if any
Not applicable				No

i) Brief analysis of the performance trends and implementations constraints reason for short fall in delivering the benefit/ reaching out to the beneficiaries and delay in implementations.

Not applicable

a)	Name of Scheme and Year of Commencement	Farm Mechanization- SCP/TSP- Special grants
b)	Budget Head of Account	Head of Account : 2401-00-001-1-75. Sub head of account: 422, 423
c)	If under Planned Scheme, Central and State Share	<p>State Sector(0:100)</p> <p>Under Farm Mechanization 50% Subsidy is provided to general category farmers and 90% subsidy is given to SC/ST farmers where subsidy will not be given beyond the fixed maximum limit.</p> <p>State Sector grants is matched with the centrally sponsored schemes grants as per SMAM Guidelines provided by the Government of India. If grants not available in RKVY, state grants used as a single bill.</p>
d)	Programme, Project and Purpose of the Scheme.	<ul style="list-style-type: none"> <li>• Reducing the cost of cultivation</li> <li>• Helps in timely operation of agricultural operation.</li> <li>• Increase the production and productivity.</li> </ul>

		<ul style="list-style-type: none"> <li>To maintain the financial competitiveness and sustainability in agriculture sector.</li> <li>Employment generation in agriculture and allied sectors.</li> </ul>															
e)	Programme's approximate beneficiaries (to be measured during the year end)	741 Beneficiaries															
f)	Financial(Rupees in Lakhs)	Financial target for 2018-19 is Rs.208.00 lakhs.															
g)	Expenditure(Rupees in Lakhs)	<table border="1"> <thead> <tr> <th colspan="2">Actual/Accounts 2017-18</th> <th colspan="2">2018-19 (Upto March 2019)</th> <th>Budget Estimate 2019-20</th> </tr> <tr> <th>Release</th> <th>Expenditure</th> <th>Release</th> <th>Expenditure</th> <th>Expected Grants</th> </tr> </thead> <tbody> <tr> <td>5103.00</td> <td>5030.02</td> <td>208.00</td> <td>207.35</td> <td>1777.29</td> </tr> </tbody> </table>	Actual/Accounts 2017-18		2018-19 (Upto March 2019)		Budget Estimate 2019-20	Release	Expenditure	Release	Expenditure	Expected Grants	5103.00	5030.02	208.00	207.35	1777.29
Actual/Accounts 2017-18		2018-19 (Upto March 2019)		Budget Estimate 2019-20													
Release	Expenditure	Release	Expenditure	Expected Grants													
5103.00	5030.02	208.00	207.35	1777.29													
h)	Physical Achievement(Unit in Nos._)	<table border="1"> <thead> <tr> <th colspan="2">2017-18</th> <th colspan="2">2018-19 (Upto March 2019)</th> <th>Audit Observations</th> </tr> <tr> <th>Tar</th> <th>Ach</th> <th>Tar</th> <th>Ach</th> <th>Just Mention whether Audit has completed the year or not.</th> </tr> </thead> <tbody> <tr> <td>5644</td> <td>5644</td> <td>741</td> <td>741</td> <td>-</td> </tr> </tbody> </table>	2017-18		2018-19 (Upto March 2019)		Audit Observations	Tar	Ach	Tar	Ach	Just Mention whether Audit has completed the year or not.	5644	5644	741	741	-
2017-18		2018-19 (Upto March 2019)		Audit Observations													
Tar	Ach	Tar	Ach	Just Mention whether Audit has completed the year or not.													
5644	5644	741	741	-													
i)	Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable	Not Applicable															

a.	Name of the Scheme and year of introduction	Inputs and Quality control Bangalore-1972 Bellary-1983 Shimoga, Dharwad,kalaburgi-1998 Mandya-2009
b.	Budget Head	2401-00-103-0-03 Sub Head-180
c.	Central and State share under the scheme	0:100 State sector scheme

d.	Objective of the programme	1.Qualitative analysis of pesticides to ensure quality pesticide to the farmers. 2. BCL/ Parasite laboratories are involved in production of parasitoids and biopesticides and quality analysis of biopesticides. 3.Strengthening of SPTL/BCL/PRAL
e.	Estimated benefit and number of beneficiaries	Pesticide/Biopesticide quality control
f.	Financial: (Rs. in Lakhs)	Financial Target for 2019-20 is Rs 75.00 Lakhs

**Expenditure: (Rs. in Lakhs)**

Laboratory	2017-18		2018-19		2019-20
	Grants released	Expenditure	Grants released	Expenditure	Expected Grants
SPTL& PRAL/BCL	75.00	70.19	88.00	87.93	75.00

**Physical Achievement(Units in no& Ha)**

Sl.No	lab	2017-18			
		Target(No.)	Achievement	Target	Achievement
1	SPTL	6800	3857	6800	3614
2	PRAL	350	245	350	332
3	BCL mandya	200	69	200	87
	BCL/PTL(Ha)	47500	54399.5	4700	56836.85

Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

-Not Applicable-

a	Name of the scheme and year of Introduction	Agricultural Inputs and Quality Control: 2018-19 Fertilizer Control Laboratories
b	Budget Head	2401-00-103-0-15 (Plan and Non plan)
c	Central & State share under the scheme	0: 100
d	Objective of the Programme	Analysis of Fertilizer samples as per Fertilizer Control Order and strengthening of Fertilizer Quality Control Laboratories.
e	Estimated benefit & number of beneficiaries	Fertilizer Quality Control.

f	Financial: (Rs. In Lakhs)	Financial Target for the year 2018-19 is Rs. 69.87 Lakhs.
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g) Expenditure: (Rs. In Lakhs)

Actual/Accounts 2017-18 (Lakhs)		Revised Estimate 2018-19 (Lakhs)		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants(Lakhs)
71.00	55.00	68.870	64.599	116.00

h) Physical Achievements (Units: in Nos)

2017 - 18		2018– 2019		Audit observations
Tar	Ach	Tar	Achievement (up to the end of March 2019)	Audit has been conducted up to 2018-19.
13500	8079	15800	9651	

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation: **Not Applicable**.

a)	Name of the scheme and year of Introduction	<b>Agricultural Inputs and Quality Control Soil Health Mission, 2015-16</b>
b)	Budget Head	<b>2401-00-103-0-15</b>
c)	If Plan, the Central & State share is	State Scheme - 0:100
d)	Objective of the Programme/Project/ Scheme:	<ol style="list-style-type: none"> <li>1. To issue soil health cards to all farmers once in every 2 years and soil test based nutrient management practices to address nutrient deficiencies in fertilization practices.</li> <li>2. To develop and promote crop based nutrient management for enhancing nutrient use efficiency.</li> <li>3. Promote Integrated Nutrient Management (INM) through judicious use of chemical fertilizers, including secondary and micro nutrients, in conjunction with organic manures and bio-fertilizers, for improving soil health and its productivity.</li> </ol>

e)	Estimated benefit & number of estimated beneficiaries	There are 30 Soil testing laboratories ( 29 static + 1 mobile soil testing laboratory) analyzing soil samples under Agriculture department in Karnataka. During second year of 2nd cycle (2018-19), During 2st year of 2nd cycle (2018-19), 8.33 lakh soil samples have been collected and 9.91 lakh soil samples analysed, 61.57 lakh Soil health cards generated & 67.18 lakh Soil health cards. (pending targets of 2017-18 have been achieved during 2018-19)
f)	Financing: (Rs. in Lakhs)	Financial Target for 2018-19 is Rs. <b>1562.00</b> lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants
<b>1283.24</b>	<b>1238.90</b>	<b>1289.00</b>	<b>1242.20</b>	<b>1482.00</b>

h) Physical Achievements (Units: in nos)

2019-20 (2nd year of 2nd Cycle of Soil Health card)			Audit observations
Particulars	Tar	Achievement	-
Soil sample collection	8.33 lakh	8.33 lakh	
Soil sample analysys	9.91 lakh	9.91 lakh	
Soil health card printed	61.57 lakh	61.57 lakh	
Soil health card distribution	67.18 lakh	67.18 lakh	

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Staff required for soil analysis in soil testing laboratories have been outsourced. Salaries for laboratory staff (soil sample analysts,lab assistants , lab attenders,peons and DEOs) for analysys of soil samples and test result entry and Taluk DEOs for registration of farmers in the soil health card portal, Expenditure towards water,electricity bill, rent and rates of laboratories, chemicals and equipment costs and maintainence of soil testing laboratories are incurred under this Scheme.

## **1. Chapter 1:**

Seed is an important and crucial agricultural input. It is reported that use of quality seeds contribute to nearly 20 to 25% of the crop yield. Timely supply of required seeds is most important to increase food production and farmers income. Based on the Seed Replacement Rates, the Department works out the requirement of certified/quality seeds and communicates to all the concerned Department Officers and the seed supplying agencies for timely supply of seeds to the farming community. Regular meetings of the Seed producers/suppliers are conducted and supply position of seeds is reviewed scrupulously.

### **General Seed Distribution:**

During 2018-19 as per the Seed Replacement norms, it was estimated that totally 15.75 lakh quintals certified/quality seed are required for the State. As against this requirement, 12.75 lakh quintals (Upto end of March-2019) of seeds have been distributed. Season wise Seed distributed is as follows: (Quantity in Lakh Quintals)

<b>Sl. No</b>	<b>Season</b>	<b>Target</b>	<b>Achievement</b>	<b>% of Achievement</b>
1	Kharif 2018	10.75	8.60	80.00
2	Rabi/Summer 2018-19 (Up to March-2019 end)	5.00	4.15	83.00
<b>TOTAL</b>		<b>15.75</b>	<b>12.75</b>	<b>81.50</b>

## **Chapter 2: Seed Distribution at Subsidised Rate During 2018-19:-**

The Department is distributing seeds at subsidized rates under State Sector 'Seed Distribution and other Inputs' Scheme. under this scheme, both Certified and Truthfully Labeled seeds including Private hybrids are distributed and Seeds are distributed to an extent of 2.00 hectares per farmer or his holding which ever is less. As per the Karnataka Transparency in Public Procurement Act, tenders are called for sourcing the seeds and agency wise quantity offered and supply rates are communicated to the Departmental Officers for distribution of seeds to the farming community.

Seeds are distributed to farmers through the Departments Raitha Samparka Kendras situated at Hobli head quarters and identified additional sale points of Govt. Institutions. Supply of seeds at Hobli level has helped the farmers in getting the required seeds almost at their doorsteps. Distribution of seeds at subsidised rates is helping the farming community to use good quality seeds and the Seed Replacement Rate is increasing considerably.

a	Name of the scheme and year of Introduction	'Seeds Distribution and Other Investments' Scheme : 2005-06
b	Budget Head	2401-00-103-0-15 (106)(422)(423)
c	Central & State share under the scheme	State Sector Scheme (0:100)

d	Objective of the Programme	Under 'Seeds Distribution and Other Investments' Scheme, Certified and Truthfully Labeled seeds including Private hybrids are distributed to an extent of 2.00 hectares per farmer or his holding which ever is less
e)	Estimated benefit & number of beneficiaries	24.00 lakhs beneficiaries
f)	Financial: (Rs. in Lakhs)	Financial Target for 2019-20 is Rs.16000.00 lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Actual/Accounts 2018-19		2019-20 Budget
Grants released	Exp.	Grants released	Exp.	Grants Allocation
14197.00	13906.59	15170.58	15083.41	16000.00

h ) Physical Achievements (Units: in Nos)

2017-18		2017-18		2019-20
Target	Achievement	Target	Achievement	Target
858739	638842.57	862215	803932	864228

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

-Not Applicable

a	Name of the scheme and year of Introduction	Seed Risk Fund and GIA to KSSC, KSSOCA, Tur Board 2010-11
b	Budget Head	2401-00-103-0-15 (103)
c	Central & State share under the scheme	State Sector Scheme (0:100)
d	Objective of the Programme	To give Financial assistance to Public Sector institutions for seeds produced and remaining after distribution by these institutions and disposed off as grains. Assistance is given in terms of difference in cost of seeds disposed as grains. Financial Assistance for strengthening and seed production to KSSC, strengthening and development activities for KSSOCA and Tur Board

e)	Estimated benefit & number of beneficiaries	Partially compensating the loss to Public Sector Seed producing institutions.
f)	Financial:(2019-20) (Rs. in Lakhs)	Rs. 2000.00 Lakhs

**g) Expenditure: (Rs. in Lakhs)**

Actual/Accounts 2017-18		Actual/Accounts 2018-19		Budget Allocation 2019-20
Grants released	Expd	Grants released	Expd	
1500.00	670.88	588.59	588.59	2000.00

**h ) Physical Achievements (Units:Qty. in Quintals)**

2017-18		2017-18	
Target	Achievement	Target	Achievement
-	25170.01	-	16000

Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

-Not Applicable-

a)	Name of the scheme and year of introduction	Agricultural Inputs and Quality Control (Plant Protection) (INSECTICIDE CONTROL LABORATORY, 1979-80)
b)	Budget Head	2401-00-103-0-15 (Plan)
c)	If Plan, the Central & State share is	State sector scheme - ( 0:100)
d)	Objective of the Programme/Project/ Scheme:	<p>In order to feed the growing population through sustainable food production, it is essential to follow suitable plant protection techniques to protect the crop stand from insect pests and diseases. Promotion of integrated pest management approach through distribution of bio- pesticides under subsidy to farmers to control insects, diseases and weeds in crop fields effectively besides reducing environmental pollution.</p> <p>Similarly, agriculture produce must be scientifically stored in order to reduce the damage from rats, bandicoots, insects and diseases. To reduce the storage losses, scientific storage bins are distributed to farmers under subsidy.</p>

		<p>Pesticides are supplied to farmers under subsidy for timely control of endemic and epidemic pests of important agricultural crops.</p> <p>In order to protect the crops from seed and soil borne pest and diseases in earlier crop stages, in turn to get higher yields, awareness has been created by conducting seed treatment campaigns.</p> <p>The composite inspectors of seed, fertiliser and pesticides are trained to effectively regulate the quality of agricultural inputs like seeds, fertilizers and insecticides under respective Acts. Funds are also made available for effective regulation and implementation of quality control programme.</p> <p>To create awareness among farmers and input dealers regarding the safe and judicious use of pesticides, training programmes are being conducted with the available funds under this scheme.</p>
e)	State & Estimated benefit & number of estimated beneficiaries from the Programme /Project/Scheme: (measurable output at the end of the year)	There is reduction in the use of chemical pesticides and increase in use bio-pesticides. The crops are effectively protected from different pests and there is increase in production and productivity. Stored grains are protected from the storage pests and storage losses are reduced. Quality agricultural inputs are provided to farmers. About 223500 farmers are benefitted by this programme.
f)	Financial:(Rs. Lakhs)	Grants allotted during the year 2018-19 is Rs 981 lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2016-17		Actual/Accounts 2017-18		Actual/Accounts 2018-19		Budget Estimate 2019-20
Grants	Exp	Grants	Exp	Grants	Exp Ach	Expected Grants
1	2	3	4	5	6	7
981	927.59	981	958.17	981.00	961.52	981.00

h) Physical Achievements (Units: in nos)

Unit	2016-17		2017-18		2018-19		Two key Audit observations/Inspection findings of year	
	1		2		3			
	Tar	Ach	Tar	Ach	Tar	Ach		
Nos.	5000	4161	5000	4510	5000	4847		
Ha.	153900	148808	153900	153564	153900	152950		

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Different pests of crops are effectively and timely controlled by adopting Integrated Pest Management practices and production was increased by the distribution of quality bio pesticides and pesticides to the farmers under subsidy. Produced grains are scientifically stored and storage losses were reduced. The composite Inspectors of seeds, fertilizers and pesticides are trained in the effective implementation of Agricultural input laws. Quality control of agricultural inputs was effectively carried out and thereby helping the farmers to get quality inputs. Necessary funds are provided to purchase the inputs by the bio control and parasitic laboratories to produce bio pesticides and to regulate the quality of bio pesticides. Similarly, funds are also provided to purchase the inputs by the State Pesticide Testing laboratories to regulate the quality control of pesticides. Funds are provided to pay the salary and allowances of bio-control and parasitic laboratories, Pesticide Residual Analysis Laboratory.

During 2018-19, 3614 pesticide samples were analysed and 42 samples were reported to be misbranded. Action has been initiated against the manufacturers and dealers of misbranded pesticides.

a	Name of the scheme and year of Introduction	Bank Interest subsidy on Fertilizers
b	Budget Head	2401-00-103-0-15
c	Central & State share under the scheme	0:100
d	Objective of the Program	Buffer stock scheme has been implemented to facilitate storage, transportation and Bank interest rate for the loan purchased for the Karnataka State co-operative Marketing Federation.
e	Estimated benefit & number of beneficiaries	Ensure proper and timely supply of fertilizers to the farmers through societies, buffer stock scheme has been implemented through Karnataka State co-operative Marketing Federation.
f	Financial: (Rs. In lakhs)	Financial Target for 2018-19 is Rs.3242.00 lakhs Rs. 3242.00 lakhs has been spent under the scheme .

g) Expenditure: (Rs.lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2018-19
Grants released(Revised)	Exp	Grants released	Exp	Expected Grants
3486.00	3486.00	3242.41	3242.41	4048.00

h) Physical Achievements (Units: MT)

2017- 2018		2018-19		Audit observations
Tar	Ach	Tar	Ach	Audited for 2017-18
-	-	-	-	

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation: **Not Applicable**

a	Name of the Scheme and Year of Introduction  i)Title of the scheme ii)Year of Commencement-	<b>Subsidy Programme under Agri Inputs and Quality Control Scheme (State Sector)</b> <b>Enrichment of Soil Fertility</b> Year of Commencement-2010-11			
b	Budget Head	2401-00-103-0-15 (Plan) Sub Head:106			
c	Central and State Share under the scheme	State Sector Scheme (100% State share) (0:100)			
d	Objectives of the Programme	<ol style="list-style-type: none"> <li>1. Increasing the Soil Fertility and Production capacity.</li> <li>2. Reducing the Farmer's Production Cost</li> <li>3. Improve the economic condition of the farmers in the State</li> <li>4. Production of non-chemical quality foods.</li> <li>5. Control the draught situation in rainfed areas.</li> <li>6. Protection of Environment and health of Human and Animals..</li> </ol>			
e	Estimated Benefit and number of Beneficiaries	Estimated Benefit : The economic status of the farmers has improved to some extent. <b>No. of beneficiaries is on an average : 595350</b>			
f	Finance : (Rs.in lakhs) Lakhs	Financial Target for 2018-19 is Rs. 3688.00			
g	Expenditure : (Rs.in lakhs)				
	<b>Actual Accounts 2017-18</b>	<b>Revised Estimate 2018-19 (till the end of Mar-2019)</b>	<b>Budget Estimate 2019-20</b>		
	<b>Grants Released</b>	<b>Expenditure</b>	<b>Grants Released</b>	<b>Expenditure</b>	<b>Expected Grants</b>
	4500.00	4425.72	3610.01	3593.68	2276.00

h	Physical Achievements : (Unit : Nos & Hectares)				
	2017-18		2018-19		Audit Observations
Tar	Ach		Ach (Till the end of Mar-2019)		
No: 2015 Ha: 593212	No: 671 Ha:611416	No: 1897 Ha: 390210	No: 649 Ha: 436283	2018-19 accounts not audited.	
i	<b>Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.</b>				The scheme has been implemented successfully by achievivng 99.55% financial progress. This has helped in improving the soil fertility apart from realising better yield.

a	Name of the Scheme and Year of Introduction i)Title of the scheme ii)Year of Commencement-	<b>Special Component Plan Under Agri Inputs and Quality Control Scheme (State Sector)</b> <b>Enrichment of Soil Fertility</b> Year of Commencement-2013-14	
b	Budget Head	2401-00-103-0-15 (Plan) Sub Head: 422	
c	Central and State Share under the scheme	State Sector Scheme (100% State share) (0:100)	
d	Objectives of the Programme	<ol style="list-style-type: none"> <li>1. Improve the economic conditions of the SC farmers by reducing the Production Cost</li> <li>2. Increasing the Soil Fertility and Production capacity.</li> <li>3. Production of non-chemical quality foods and increasing the SC farmers income.</li> <li>4. Control the drought situation in rainfed areas.</li> <li>5. Protection of Environment and health of Human and Animals.</li> </ol>	
e	Estimated Benefit and number of Beneficiaries	Estimated Benefit : The economic status of the farmers has improved to some extent. <b>No. of beneficiaries is on an average :10696</b>	
f	Finance : (Rs.in lakhs)	Financial Target for 2018-19 is Rs. 986.00 Lakhs	
g	Expenditure : (Rs.in lakhs)		
	<b>Actual Accounts 2017-18</b>	<b>Revised Estimate 2018-19 (till the end of Mar-2019)</b>	<b>Budget Estimate 2019-20</b>

	<b>Grants Released</b>	<b>Expenditure</b>	<b>Grants Released</b>	<b>Expenditure</b>	<b>Expected Grants</b>
	963.47	885.38	965.16	928.60	515.00
<b>h</b>	<b>Physical Achievements : (Unit : Nos &amp; Hectares)</b>				
	<b>2017-18</b>		<b>2018-19</b>		<b>Audit Observations</b>
	<b>Tar</b>	<b>Ach</b>	<b>Tar</b>	<b>Ach (Till the end of Mar-2019)</b>	
	No: 358 Ha: 91081	No: 60 Ha: 85011	No: 358 Ha: 73456	No: 94 Ha: 69264	2018-19 accounts not audited.
<b>i</b>	<b>Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.</b>				The scheme has been implemented successfully by achievivng 96.21% financial progress. This has helped in improving the soil fertility apart from realising better yield.

<b>a</b>	Name of the Scheme and Year of Introduction i)Title of the scheme ii)Year of Commencement-	<b>Tribal Sub-Plan Under Supply of Seeds &amp; Other input Scheme (State Sector)</b> <b>Enrichment of Soil Fertility</b> Year of Commencement-2013-14
<b>b</b>	Budget Head	2401-00-103-0-15 (Plan) Sub Head: 423
<b>c</b>	Central and State Share under the scheme	State Sector Scheme (100% State share) (0:100)
<b>d</b>	Objectives of the Programme	<ol style="list-style-type: none"> <li>1. Improve the economic conditions of the tribal farmers by reducing the Production Cost</li> <li>2. Increasing the Soil Fertility and Production capacity.</li> <li>3. Production of non-chemical quality foods and increasing the traibal farmers income.</li> <li>4. Control the draught situation in rainfed areas.</li> <li>5. Protection of Environment and health of Human and Animals.</li> </ol>
<b>e</b>	Estimated Benefit and number of Beneficiaries	Estimated Benefit : The economic status of the farmers has improved to some extent. <b>No. of beneficiaries is on an average: 28451</b>
<b>f</b>	Finance : (Rs.in lakhs) Lakhs	Financial Target for 2018-19 is Rs. 235.00

<b>g</b>	Expenditure : (Rs.in lakhs)				
	<b>Actual Accounts 2017-18</b>		<b>Revised Estimate 2018-19 (till the end of Mar-2019)</b>		<b>Budget Estimate 2019-20</b>
	<b>Grants Released</b>	<b>Expenditure</b>	<b>Grants Released</b>	<b>Expenditure</b>	<b>Expected Grants</b>
	235.67	218.90	230.03	219.00	209.00
<b>h</b>	<b>Physical Achievements : (Unit : Nos &amp; Hectares)</b>				
	<b>2017-18</b>		<b>2018-19</b>		<b>Audit Observations</b>
	<b>Tar</b>	<b>Ach</b>	<b>Tar</b>	<b>Ach (Till the end of Mar-2019)</b>	
	No: 90 Ha: 21073	No: 354 Ha: 21073	No: 90 Ha: 17809	No: 47 Ha: 19568	2018-19 accounts not audited.
<b>i</b>	<b>Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.</b>				The scheme has been implemented successfully by achieving 95.21% financial progress. This has helped in improving the soil fertility apart from realising better yield.

<b>a</b>	Name of the Scheme and Year of Introduction  i)Title of the scheme ii)Year of Commencement-	<b>Salary and Lab Expenditure Scheme (State Sector)</b>  <b>Biofertilizer, Fertilizer and De-oiled non-edible Cake Organic Fertilizers Quality Control Laboratory</b> Year of Commencement-2015-16
<b>b</b>	Budget Head	2401-00-103-0-15 (Plan)
<b>c</b>	Central and State Share under the scheme	State Sector Scheme (100% State share) (0:100)
<b>d</b>	Objectives of the Programme	<ol style="list-style-type: none"> <li>1. Biofertilizer, Organic Fertilizer and De-oiled non-edible Cake Fertilizers Quality Control Lab Management.</li> <li>2. Laboratory General Expenditure.</li> <li>3. Laboratory Building Repair.</li> <li>4. Laboratory Equipments Purchase.</li> </ol>
<b>e</b>	Estimated Benefit and number of Beneficiaries	Estimated Benefit : Biofertilizer, Organic Fertilizer and De-oiled non-edible Cake Fertilizers Quality Control

<b>f</b>	Finance : (Rs.in lakhs) Financial Target for 2018-19 is Rs. 50.00 Lakhs				
<b>g</b>	Expenditure : (Rs.in lakhs)				
	<b>Actual Accounts 2017-18</b>		<b>Revised Estimate 2018-19 (till the end of Mar-2019)</b>		<b>Budget Estimate 2019-20</b>
	<b>Grants Released</b>	<b>Expenditure</b>	<b>Grants Released</b>	<b>Expenditure</b>	<b>Expected Grants</b>
	40.00	38.40	20.95	20.09	50.00
<b>h</b>	<b>Physical Achievements : (Unit : Nos &amp; Hectares)</b>				
	<b>2017-18</b>		<b>2018-19</b>		<b>Audit Observations</b>
	<b>Tar</b>	<b>Ach</b>	<b>Tar</b>	<b>Ach (Till the end of Mar-2019)</b>	
	-	-	-	-	-
<b>i</b>	<b>Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.</b>				The scheme has been implemented successfully by achievivng 95.88% financial progress. This has helped in improving the Biofertilizer, Organic Fertilizer and De-oiled non-edible Cake Fertilizers Quality Control for better yield.

a	Name of Scheme and Year of Commencement	Farm Mechanization (Plan)  State Sector  Implemented in the State from 1997-98
b	Budget Head of Account	Head of Account :2401-00-103-0-15 Sub-Head-059, 422, 423,
c	If under Planned scheme, Central and State share	State Sector(0:100)  Under Farm Mechanization 50% Subsidy is provided to general category farmers and 90% subsidy is given SC/ST farmers where subsidy will not be given beyond the fixed maximum limit.  State Sector grants is matched with the centrally sponsered schemes grants as per SMAM Guidelines provided by the Government of India.If grants not available in RKVY, state grants used as a single bill.
d	Programme, Project and Purpose of the Scheme.	<ul style="list-style-type: none"> <li>• Reducing the cost of cultivation</li> <li>• Helps in timely operation of agricultural operation.</li> <li>• Increase the production and productivity.</li> </ul>

		<ul style="list-style-type: none"> <li>To maintain the financial competitiveness and sustainability in agriculture sector.</li> <li>Employment generation in agriculture and allied sectors.</li> </ul>
e	Programme's approximate beneficiaries (to be measured during the year end)	120969 Beneficiaries
f	Financial (Rupees in Lakhs)	Financial target for 2018-19 is Rs.17945.00 lakhs.

g) Expenditure: (Rs. lakhs)

Actual/Accounts 2017-18		2018-19 (Upto March 2019)		Budget Estimate 2019-20
Release	Expenditure	Release	Expenditure	Expected Grants
15053.74	15036.77	19740.53	19714.35	18232.11

h) Physical Achievements (Units: in Nos)

2017-18		2018-19 ( Upto March 2019)		Audit Observations
Tar	Ach	Tar	Ach*	Just Mention whether Audit has completed for the year or not.
33870	90070	45844	120969	-

i) Brief analysis of the performance trends and implementaion constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable

a	Name of Scheme and Year of Commencement	Krishi Yantra Dhare (Establishment of Farm Machinery Custom Hire service Centres) Implemented in the State from 2014-15
b	Budget Head of Account	State Sector: 2401-00-103-0-15 (106)
c	If under Planned scheme, Central and State share	State Sponsored Scheme
d	Programme, Project and Purpose of the Scheme.	The project proposes to provide Farm Machineries to Samll and Marginal farmers at nominal hiring charges in all the districts of the State.
e	Programme's approximate beneficiaries (to be measured during the year end)	Till date around 11.10 lakh farmers have been benefitted from this programme.
f	Financial (Rupees in Lakhs)	Financial target for 2018-19 is Rs.2590.85lakhs.

g) Expenditure: (Rs. lakhs)

Actual/Accounts 2017-18		2018-19(Upto March 2019)		Budget Estimate 2019-20
Release	Expenditure	Release (State)	Expenditure (State)	Expected Grants
4321.20	4321.20	928.02	928.02	0.00

h) Physical Achievements (Units: in Nos)

2017-18		2018-19(Upto March 2019)		Audit Observations
Tar	Ach	Tar	Ach	Just Mention whether Audit has completed for the year or not.
250	95	125	125	-

\*-During 2018-19, Work Order was for establishment of 125 centres, establishment is under progress.

i) Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable

Not Applicable

a	Name of Scheme and Year of Commencement	Agroprocessing Implemented from the year 2006-07
b	Budget Head of Account	Head of Account :- 2401-00-103-0-15, Sub code-106,422,423
c	If under Planned Scheme, Central and State Share	0:100
d	Programme, Project and Purpose of the Scheme.	The objectives of the scheme is to help the farmers in qualitative processing of the agriculture produce which is helpful to farmers as well as consumers. To promote the use of appropriate technologies that reduces losses and improves quality of the produce and to reduce the labour dependency and drudgery in post harvest operations
e	Programme's approximate beneficiaries (to be measured during the year end)	During the year 2018-19, 294195 Beneficiaries
f	Financial(Rupees in Lakhs)	Financial target for 2018-19 is Rs. 4625.40 lakhs.

g) Expenditure: (Rs. lakhs)

Actual/Accounts 2017-18		2018-19 (Upto March 2019)		Budget Estimate 2019-20
Release	Expenditure	Release	Expenditure	Expected Grants
4516.50	4502.94	4625.54	4548.28	4625.40

h) Physical Achievements (Units: in Nos)

2017-18		2018-19 (Upto March 2019)		Audit Observations
Tar	Ach	Tar	Ach	Just Mention whether Audit has completed for the year or not.
134152	177231	294195	317315	-

- i) Brief analysis of the performance trends and implementaion constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation:  
If not applicable please Mention Not Applicable

Not Applicable

a)	Name of the scheme and year of Introduction	Special Development Plan Implemented from the year 2018-19
b)	Budget Head	2401-00-103-0-15 (133)
c)	Central & State share under the scheme	State Sector scheme (0:100)
d)	Objective of the Programme	Permission is accorded for implementation of Krishi Bhagya scheme components under SDP programme. Hence the objective of the scheme is to improve rainfed agriculture scenario with the efficient management of rain water, to enhance the farm productivity. Thrust is being given to conserve rain water and utilize the collected water to irrigate the crop at critical stages of crop growth.
e)	Estimated benefit & number of beneficiaries	During 2018-19 out of Rs. 62.91 crores earmarked for implementation of krishi bhagya scheme components under Agriculture inputs and quality control, Rs.31.45 crores was released and Rs.31.25 crores was utilised to construct 4734 Farm ponds and to implement other components of the scheme to the target of 7400 farm pond construction. Further by utilizing the conserved water in these farm ponds, approximately around 24,990 acre area have been provided with protective irrigation during critical stages of crop growth, thus increasing the annual income of the farmer

		<p>As per the evaluation studies conducted by State Agricultural Universities and thirty party evaluation report of NABARD, the outcome of schemes are as follows</p> <ol style="list-style-type: none"> <li>1. Adoption of scheme has resulted in significant change in the land use pattern and there is an increase in cropped area</li> <li>2. In districts where rainfall was comparatively better, particularly in southern districts, there was a shift in the cropping pattern from traditional field crops like Ragi, Jowar, Green gram, Maize etc., to high value horticultural crops like vegetables, flowers and fruits.</li> <li>3. The income level of farmers has considerably increased due to shift in the cropping pattern.</li> <li>4. The water use efficiency has increased due to adoption of micro irrigation system like Sprinkler and Drip.</li> </ol>
f)	Financing: (Rs. in lakhs)	During 2018-19, out of Rs.6291.00 lakhs earmarked for implementation of Special development programme under Agri inputs and quality control, Rs.3145.00 lakhs was released and Rs.3125.00 lakhs was utilised upto the end of March 2019 for implementation of various components of the scheme.

g) Expenditure: (Rs. in lakhs)

Actuals/Accounts 2016-17		Actuals/Accounts 2017-18		Actuals/Accounts 2018-19		Budget Estimate 2019-20
Grants Released	Exp	Grants Released	Exp	Grants Releases	Exp	Expected Grants
0.00	0.00	0.00	0.00	3145.00	3125.00	6320.00

h) Physical Achievements (Units: in Nos)

2016–17			2017–18		2018–19		Audit observation
Components	Tar	Ach	Tar	Ach	Tar	Ach	
Components							Audit completed for the year or not.
Farm Pond construction	0	0	0	0	7400	4734	--

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation;

Krishi Bhagya scheme is being implemented in the state from the year 2014-15, hence it has been widely publicised and no constraints have been found in implementation of this scheme .

a	Name of the Scheme and Year of Implementation	Organic Farming 2004-05
b	Head of Account	2401-00-104-0-12
c	If Plan scheme, share of Central and State. (Eg: 75:25 or 100:0 or 0:100)	State Scheme (0:100)
d	Objectives of Programme	<p>Organic Farming Promotional Activities</p> <ul style="list-style-type: none"> <li>• Bring awareness among farming community on principles and practices of organic farming.</li> <li>• Bring awareness among farming community on organic farming through extension functionaries of various development departments.</li> <li>• To help Farmers groups/ Farmer clubs/ Farmer associations for judicious use of natural resources like soil, water and organisms.</li> <li>• Processing, Value addition and Marketing of organic produce at the farmer's production sites.</li> </ul>
e	Estimated Result and Beneficiaries from this Programme (As per Year ended result)	<p>Organic Farming Promotional Activities</p> <ul style="list-style-type: none"> <li>• Conversion of 100 ha. area in each hobli to Organic farming cultivation. Overall 63297 farmers are benefited in 1.05 lakh ha. throughout the state. To provide a systematic market for the organic produce of the state, by establishing 15 regional federations throughout the state by federating organic farmers' associations of the state. Action has been initiated to take up collection, grading, value addition, processing, packing, brand development, marketing of organic produce, apart from consumer awareness programme and other activities.Organic Adoption &amp; Certification and Zero Budget Natural Farming schemes have been initiated</li> </ul>
f	Financial(Rupees in Lakhs)	Financial target for 2018-19 was Rs.10000.00 lakhs

f) Expenditure: (Rs. lakhs)

Programme/ Scheme	Sub head	Budget provision 2017-18		Budget provision 2018-19		Budget estimate 2019-20
		Release	Expenditure	Release	Expenditure	Expected grants
Organic Farming	059	2430.00	2406.34	3825.00	3816.36	7012.00
	106	3057.00	3035.64	1575.00	1572.58	2500.00
	422	120.00	116.15	150.00	145.33	113.00
	423	50.00	48.64	100.00	99.24	75.00
	Total	5657.00	5606.77	5650.00	5633.51	9700.00

h) Physical Achievements (Units: in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach*	Audited
57100	1.05 lakh He.	1.50 lakh He.	1.05 lakh He.	No

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a)	Name of the scheme and year of Introduction	AGRICULTURAL FAIRS AND EXHIBITIONS-1967
b)	Budget Head	2401-00-109-0-21 sub head: 051
c)	If Plan, the Central & State share is	State sector scheme - 0:100
d)	Objective of the Programme/Project/Scheme:	The scheme aims at organisation & participation of farmers and extension personnel in Agricultural fairs, exhibitions, melas organised at national, state, district, taluk level, village level to familiarise and transfer improved agricultural technologies to the farming community with the end objective of increasing agricultural production. Apart from preparation of tableaux for Independence Day, Republic day, Sammelanas etc, the scheme also provides for preparation and transport of exhibits to melas.

e)	State & Estimated benefit & number of estimated beneficiaries from the Programme/ Project/Scheme: (measurable output at the end of the year)	A large number of farmers through out the state visit and participate in exhibitions, jathres, melas etc., held at national, state, district, taluk and village levels and in turn gain knowledge of improved agricultural technologies.
f)	Financing: (Rs. in Lakhs)	Grants allotted during the year— 100.00

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20	
Grants	Exp	Grants	Exp	Grants	Exp
100.00	83.16	100.00	92.2	100.00	--

h) Physical Achievements (Units: in nos)

2016-17		2018-19		Two key Audit observations/ Inspection findings of year
Tar	Ach	Tar	Ach	
60	87	-	-	Audit has been not completed for the year

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Agricultural fairs, exhibitions, melas are successfully being organised at national, state, district, taluk level, village level etc which in turn are reaching out to familiarise and transfer improved agricultural technologies to the farming community.

a)	Name of the scheme and year of Introduction	FARM INFORMATION UNIT, 1967
b)	Budget Head	2401-00-109-0-21 sub head: 059
c)	If Plan, the Central & State share is	State sector scheme - 0:100
d)	Objective of the Programme/Project/ Scheme:	The scheme aims at transfer of improved agricultural technologies to extension personnel and the farming community to support the available extension activities, with the objective of increasing agricultural production. A network of information services is available with the Department to provide media support to extention personnel and the farming community.Special publicity literatures,leaflets,folders etc and other visual aids are brought out at state, district and taluk levels and at training centres to educate the farmers.Phone-in programmes are being conducted in AIR & DD besides broadcast of daily tips to farmers.Timely press releases

		are also given adhering to the requirements of the situation.
e)	State & Estimated benefit & number of estimated beneficiaries from the Programme/ Project/Scheme:  (measurable output at the end of the year)	Adhering to the requirements of the situation, special extension literatures are brought out at state, district and taluk levels for the benefit of the farming community. Phone-in programmes are being conducted in AIR & DD besides broadcast of daily tips to farmers throughout the state.
f)	Financing:(Rs. in Lakhs)	Grants allotted during the year - 100.00

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20	
Grants	Exp	Grants	Exp	Grants	Exp
500.00	255.30	220.00	219.62	100.00	-

h) Physical Achievements (Units: in nos)

2017-18		2017-18		Two key Audit observations/Inspection findings of year
Tar	ach	Tar	Ach	
Tar	ach	Tar	Ach	Audit not completed for the year
1484	1489	-	-	

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

According to requirements of the situation, preparation & distribution of extension literature, release of press notes, preparation of Guidelines, handbook of Departmental schemes, broadcast of tips to farmers through AIR and Doordarshan, programmes through AIR & DD are being successfully implemented under this scheme.

a	Name of the scheme & year of starting	AGRICULTURE EXTENSION AND TRAINING TRAINING PROGRAMME FOR EXTENSION OFFICERS & FARMERS/ FARM WOMEN - 2011-12
b	Budget head of account	2401-00-109-0-21 (Plan)- Sub head - 059 Other expenditure
c	Central and state share if any	0:100
d	Programme/project/ scheme objectives	<ul style="list-style-type: none"> <li>▪ To enhance the professional efficiency of the extension officers and farmers/ farm women in agriculture</li> </ul>

		<ul style="list-style-type: none"> <li>▪ Common foundation course for Agriculture officers, Assistant Agriculture officers and Agriculture assistants to improve work efficiency.</li> </ul>
e	Expected outcome of the Programme/ project/ scheme (a) & expected beneficiaries (b) (measurable outcome at the end of the year)	<ul style="list-style-type: none"> <li>(a) Arriving at Sustainable agriculture extension system.</li> <li>(b) Extension officers, farmers/ farm women (Number of persons trained)</li> </ul>
f	Finance (Rs.in lakhs)	Financial target for the year 2018-19 is Rs.100.00 lakhs.

g. Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		2018-19		Budget Proposed 2019-20
Amount Released	Expenditure	Amount Released	Expenditure	
100.00	92.40	100.00	98.17	100.00

h. Physical Achievements (Units:in Nos)

Unit - Total Number of persons trained - farmers /farm women/extension officers)				Audit Details	
2017-18		2018-19			
Target	Achievement	Target	Achievement		
5890	6774	6890	5280	-	

i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme & year of starting	AGRICULTURE EXTENSION AND TRAINING DISTRICT AGRICULTURE TRAINING CENTRE (PLAN) STATE SECTOR (MAINTENANCE) - 2001-02
b	Budget head of account	2401-00-109-0-21 (Plan) Sub head- 200 Maintenance
c	Central and state share if any	0:100
d	Programme/project/ scheme objectives	<ul style="list-style-type: none"> <li>▪ Strengthening of infrastructure facilities of the training centre for imparting effective training programmes</li> </ul>

e	Expected outcome of the Programme/ project/ scheme (a) & expected beneficiaries (b) (measurable outcome at the end of the year)	(a) Well equipped hostel building and providing audio visual aids for effective training programmes. (b) Trained farmers /farm women and extension officers are the indirect beneficiaries (Number of Civil works and audio visual aids provided)
f	Finance (Rs.in lakhs)	Financial target for the year 2018-19 is Rs.100.00 lakhs.

g. Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		2018-19		Budget Proposed 2019-20
Amount Released	Expenditure	Amount Released	Expenditure	
125.00	117.53	100.00	97.10	104.00

h. Physical Achievements (Units :in Nos)

2017-18		2018-19		Audit Details
Target	Achievement	Target	Achievement	
24	23	24	24	-

i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a)	Name of the scheme and year of Introduction	<b>Bhoosamruddhi II Phase 2015-16</b>
b)	Budget Head	Under Integrated Agriculture Extension System Scheme 2401-00-109-0-21 (059,422,423,106 & 103)
c)	Central & State share under the scheme	This is a State Sector scheme where in funds required is provided under IAES.
d)	Objective of the Programme	<ol style="list-style-type: none"> <li>1. To form action oriented consortium of CGIAR institutions to operationalize action research scaling-up model In partnership with Agriculture and line Departments viz; Animal Husbandry, Horticulture, Watershed Development, Rural Development &amp; Panchayat Raj, etc</li> <li>2. In the State to increase crop yields by 20% and farmers income by 25% over a period of four years.</li> <li>3. To establish four sites of learning on pilot basis, scaling-up approach integrated participatory</li> </ol>

		research for development to benefit small and marginal farmers in irrigated and rain fed agriculture areas representing the revenue divisions of the state.
e)	Estimated benefit & number of beneficiaries	➤ As per the Govt order No. AGD/76/ACT/2012, Bangalore, DATED 19th March 2013 & kri.ee./135/ kri.ee.ka,2015,Dated 23.03.2017 The Scheme is in implementation for a period of four years (2015-16 to 2018-19)in four districts. One districts in four revenue divisions has been selected viz., Bidar, Dharwad, Chikkaballapura and udupi districts and Bhoosamruddhi Phase II is implemented in an area of 80,000 ha in each district and totally 320000 ha covered in 2018-19. Along with Ongoing schemes of Agriculture & allied departments Viz., Horticulture, Sericulture, Animal Husbandry, Fisheries, Social Forestry and watershed departments converged and Innovative technologies and Integrated farming system (IFS) component are adopted in the Bhoosamruddhi area in coordination with CGIAR institutions.
f)	Financing: (Rs. in lakhs)	Financial Target for 2018-19 is Rs. 1736 .00 lakhs

g. Expenditure: (Rs. in lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19 (Up to March)		Budget Estimate 2019-20
Grants Released	Exp	Grants Released	Exp	Expected Grants
1619.00	1600.00	1736.00	1710.00	Since Bhoosamruddhi scheme came to an end in the year 2018-19 there is no any budget estimate for the year 2019-20

g) Physical Achievements (Units: in Hectares)

2017-18 (II phase 4 districts. Each district 40000 ha)			2018-19 (II phase 4 districts. Each district 80000 ha)		Audit observation
	Tar	Ach	Tar	Ach	Just mention whether Audit has been completed for the year or not.
Kharif & Rabi	160000	160000	320000	320000	Audit has been completed for the year 2017-18.

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation;

Bhoosamruddhi II phase is implemented from 2015-16 in order to increase the rural livelihood status by ensuring the raise in income level of the farmers in the pilot area. Steps have been taken to formulate special action plans in collaboration with ICRISAT and CGIAR institutes. Right strategies designed with the assistance from these institutes are implemented on pilot basis in four districts.

a)	Name of the scheme and year of Introduction	Honorarium to Techno Promoters Introduction of the scheme is in 2018-19.
b)	Budget Head	Under Integrated Agriculture Extension System Scheme 2401-00-109-0-21 (059,422,423)
c)	Central & State share under the scheme	This is a State Sector scheme where in funds required is provided under IAES.
d)	Objective of the Programme	Since the Bhoochetana scheme came to an end at 2017-19, the services of Techno promoters are taken for soil sample collection under soil health mission and to inspect the demonstration fields under NFSM.
e)	Estimated benefit & number of beneficiaries	During 2018-19 this programme was implemented in all 30 districts and services of 3550 no of Techno promoters are utilized
f)	Financing: (Rs. in lakhs)	Financial Target for 2018-19 is Rs. 700.00 lakhs

g) Expenditure: (Rs. in lakhs)

<b>Revised Estimate 2018-19 (Up to March)</b>		<b>Budget Estimate 2019-20</b>
<b>Grants Released</b>	<b>Exp</b>	<b>Expected Grants</b>
600.00	580.00	294.00

h) Physical Achievements (Units: in lakh Hectares)

<b>2018-19</b>		<b>Audit observation</b>
Tar	Ach	Just mention whether Audit has been completed for the year or not.
3878	3550	Audit has to be taken up in 2019-20

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation;

Government of Karnataka initiated a Novel mission project "Bhoochetana" to improve the livelihoods of the dryland farmers by increasing the agricultural productivity of dryland crops. The project implementation period is 2009-10 to 2012-13 as first phase and 2013-14 to 2017-18 as second phase.

During 2017-18 this scheme is converged with ongoing schemes of department and first time beneficial farmers were given incentive by DBT to their bank account. The major components of the programme specific technology demonstration, incentive for improved machineries and Farmers field school. The services of Tehno Promoters were utilised to implement this programme. During 2018-19 the services of Techno promoters has been taken to draw the soil samples under Soil health mission and to monitor the demonstrations of NFSM both the Kariel and Rabi season.

a	Name of the scheme and year of Introduction	Agriculture Extension and Training Deputing Agriculture Students to Raitha samparka kendras: State sector Scheme 2012-13
b	Budget Head	2401-00-109-0-21. sub head :059
c	Central & State share under the State Sector.	State Sector Scheme – 100% State share
d	Objective of the programme	To strengthen the Raitha Samparka Kendras for effective implementation of Department programmes and technology transfer, the final year from Agriculture and Horticulture Universities will be deputed at least for 3 months to Raitha Samparka Kendras for acquiring minimum practical skills, field experience and knowledge. Monthly honorarium of Rs.3000/- will be paid to them.
e	Estimated benefit & number of beneficiaries	The final year students will acquire minimum practical skills, field experience and knowledge by deputing to Raitha Samparka Kendres Number of beneficiaries-2087
f	Financial (Rs.in lakhs)	Financial Target for 2018-19 is Rs. 180.00 lakhs.

h) Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp (March-2018 end)	Expected Grants
180.00	173.1473	180.00	174.61	180.00

Physical Achievements (Units :in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach (March-2019 end)	
				Just mention whether Audit has been completed for the year or not. Mention Audit observation if any
2000	2124	2000	2087	Audit has been completed for the year 2017-18 and there is no Audit observation

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme & year of starting	AGRICULTURE EXTENSION AND TRAINING UPGRADATION OF DISTRICT AGRICULTURE TRAINING CENTRE - STATE SECTOR - 2008-09
b	Budget head of account	2401-00-109-0-21 (Plan)- Sub head - 059
c	Central and state share if any	0:100
d	Programme/project/ scheme objectives	<ul style="list-style-type: none"> <li>▪ Construction of new buildings for DATC.</li> <li>▪ Providing satisfactory accommodation for trainees in the hostel by strengthening infrastructure facilities.</li> <li>▪ Purchase of audio visual aids for imparting more effective training programmes.</li> </ul>
e	Expected outcome of the Programme/ project/ scheme (a) & expected beneficiaries (b) (measurable outcome at the end of the year)	(a) Hostel with good accommodation facilities, New buildings for DATC's and effective Training programmes. (b) Farmers/ farm women and extension officers are the indirect beneficiaries.
f	Finance (Rs.in lakhs)	Financial target for the year 2018-19 is Rs.100 lakhs.

g. Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		2018-19		Budget Proposed 2019-20
Amount Released	Expenditure	Amount Released	Expenditure	
100.00	95.34	50.00	49.45	100.00

**h. Physical Achievements (Units :in Nos)**

2017-18		2018-19		<b>Audit Details</b>
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	
14	14	8	8	-

- i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme and year of Introduction	Agriculture Extension and Training District Agriculture Training
b	Budget Head	2401-00-109-0-21. sub head :059
c	Central & State share under the State Sector.	State Sector Scheme – 100% State share
d	Objective of the programme	To strengthen the Raitha Samparka Kendras for effective implementation of Department programmes and technology transfer, the final year from Agriculture and Horticulture Universities will be deputed at least for 3 months to Raitha Samparka Kendras for acquiring minimum practical skills, field experience and knowledge. Monthly honorarium of Rs.3000/- will be paid to them.
e	Estimated benefit & number of beneficiaries	The final year students will acquire minimum practical skills, field experience and knowledge by deputing to Raitha Samparka Kendres Number of beneficiaries-2087
f	Financial (Rs.in lakhs)	Financial Target for 2018-19 is Rs. 180.00 lakhs.

**g) Expenditure : (Rs. in lakhs)**

Actual/Accounts 2017-18		Revised Estimate 2018-19		<b>Budget Estimate 2019-20</b>
<b>Grants released</b>	<b>Exp</b>	<b>Grants released</b>	<b>Exp (March-2018 end)</b>	<b>Expected Grants</b>
180.00	173.1473	180.00	174.61	180.00

**h) Physical Achievements (Units :in Nos)**

2017-18		2018-19		<b>Audit observations</b>
Tar	Ach	Tar	Ach (March-2019 end)	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any
2000	2124	2000	2087	Audit has been completed for the year 2017-18 and there is no Audit observation

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme and year of Introduction	HASIRU HABBA/ KRISHI USTAVA /KRISHI ABHIYAANA/ SAMAGRA KRISHI ABHIYAANA - 2008-09
b	Budget Head	State head: 2401-00-109-0-21 (059)
c	Central & State share under the scheme	State : Central share - 100:0
d	Objective of the Programme	<p>To improve productivity of agricultural crops, transfer of new technologies and to disseminate comprehensive information of programmes implemented by Agriculture and allied departments to farmers, the Department of Agriculture has embarked on ‘Samagra Krishi Abhiyaana’ as an awareness programme.</p> <p><b>Objectives:</b></p> <ul style="list-style-type: none"> <li>▪ Providing comprehensive information of Programmes implemented by Agriculture and allied Departments to farmers.</li> <li>▪ Awareness regarding adoption of new technologies to improve agricultural productivity</li> <li>▪ Facilitating Farmer-Scientist Interaction.</li> </ul>
e	Estimated benefit & number of estimated beneficiaries	<p>The expected outcome of Samagra Krishi Abhiyaana is:</p> <ul style="list-style-type: none"> <li>▪ Providing comprehensive information of Programmes of Agriculture and allied Departments to the farmers.</li> <li>▪ Facilitating Farmer- Scientist discussions /interactions/solving of problems.</li> <li>▪ Improving Productivity of food crops by encouraging adoption of technologies.</li> </ul>
f	Financial: (Rs. in Lakhs)	Grant of Rs.555 lakhs has been released for organising the programme during the year 2018-19.

g. Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants	Exp	Grants	Exp	Rs.556-00 lakhs has been released
639.00	620.90	555.00	521.45	

h. Physical Achievements (Units :in Nos)

2017-18		2018-19		Audit observations(Audit under or not) prominent paras if any;
Target	Achievement	Target	Achievement	
851 Hobli level programmes	844 Hobli level programmes	739 Hobli level programmes	699 Hobli level programmes	-

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation - Not Applicable.

a	Name of the scheme and year of Introduction	Agriculture Extension & Training 2016-17, Digital Agriculture by using various media.		
b	Budget Head	2401-00-109-0-21, Sub-Head-059		
c	Central & State share under the State Sector.	State Sector - (0:100)		
d	Objective of the programme	Strengthening agricultural extension is the need of the hour as the farming is dependent increasingly on input and output markets and the new technological advances. However, this extension service should not only cater to the agricultural production but the agribusiness as a whole which will include crop planning, input procurement, resource mobilization, agricultural production, value addition, risk management and marketing.		
e	Estimated benefit & number of beneficiaries	Under this scheme grants utilized for pay the salaries of Raitha Mitras And Providing Trainings to Farmers, etc.		
f	Financial (Rs.in lakhs)	Financial Target for 2018-19 is Rs. 15.00 lakhs.		

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Expenditure (March 2019 end)	Expected Grants
100.00	-	15.00	-	-

g. Expenditure : (Rs. in lakhs)

h. Physical Achievements (Units:in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Expenditure (March 2019end)	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any
0	0	0	0	-

\* In 2018-19 released grants have been not utilized for Digital Agriculture

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfal lin delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme and year of Introduction	Agriculture Extension & Training 2013-14, Outsourcing of RSK Accountants.
b	Budget Head	2401-00-109-0-21, Sub-Head-059
c	Central & State share under the State Sector.	State Sector - (0:100)
d	Objective of the programme	To carry out the Raitha Samparka Kendras Transaction and activities smoothly, one Accountant will be deployed per RSKs on out sourcing basis. Accountant duties and responsibilities is sale of Agriculture Inputs, Collection of farmer share and remittance to bank, maintenance of RSKs Accounts & Records and uploading of Farmer database in AISS Software.
e	Estimated benefit & number of beneficiaries	Under this scheme grants utilized to pay the salaries of Accountants of 742 RSKs
f	Financial (Rs.in lakhs)	Financial Target for 2018-19 is Rs. 1400.00 lakhs.

g) Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Expenditure (March 2019 end)	Expected Grants
1650.00	1598.94	1639.11	1637.05	1501.00

**h) Physical Achievements (Units:in Nos)**

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Expenditure (March 2019 end)	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any
8904	7420	8904	8904	Audit has been completed for the year 2017-18 and there is no Audit observation

\* In 2018-19 released grants have been utilized for Accountants Honorarium Those who are working in RSKs on out sourcing basis.

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme & year of starting	AGRICULTURE EXTENSION AND TRAINING  Transfer of Farmers Innovation to the farmer through progressive farmers.
b	Budget head of account	2401-00-109-0-21 -Sub head - 059
c	Central and state share if any	0:100
d	Programme/project/ scheme objectives	Transfer of Farmers Innovations and technology to the farmer through progressive farmers.
e	Expected outcome of the Programme/ project/ scheme (a) & expected beneficiaries (b) (measurable outcome at the end of the year)	<ul style="list-style-type: none"> <li>Transfer of Farmers Innovations and technology to the farmer through progressive farmers via KVK.</li> <li>Providing skill development training to the farmers.</li> <li>Progressive farmers field visit.</li> </ul>
f	Finance (Rs.in lakhs)	Financial target for the year 2018-19 is Rs.10.00 lakhs.

**g. Expenditure : (Rs. in lakhs)**

Actual/Accounts 2017-18		2018-19		Budget Proposed 2019-20
Amount Released	Expenditure	Amount Released	Expenditure	
-	-	-	-	-

h. Physical Achievements (Units:in Nos)

<b>Unit - Total Number of persons trained - farmers /farm women/extension officers)</b>				
2016-17		2017-18		<b>Audit Details</b>
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	
-	-	-	-	-

i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a	Name of the scheme and year of Introduction	Committees & Consultancies 1993-94
b	Budget Head	2401-00-102-0-28 (Sub head-059)
c	Central & State share under the scheme	0:100
d	Objective of the Programme	<ul style="list-style-type: none"> <li>1. To bear the recurring expenditure of the members of Committee and Consultancies constituted for easy and time to time execution of the various agricultural schemes.</li> <li>2. To bear the expenses of the members who assemble for meeting as consultants to adopt advanced technology from time to time.</li> <li>3. To bear the expenses pertaining to conduct season wise programmes for strengthening the agricultural technologies.</li> </ul>
e	Estimated benefit & number of beneficiaries	552 Meetings.
f	Financial (Rs. In Lakhs)	Rs.100.00lakhs

g. Financial Expenditure(Rs.in lakhs) Plan:

<b>Sl. No</b>	<b>Name of the Scheme &amp; Budget Head</b>	<b>Progress 2017-18</b>		<b>Progress 2018-19</b>		<b>Grants for 2018-19</b>
		<b>Grants released</b>	<b>Achivement</b>	<b>Grants released</b>	<b>Achievement</b>	
1	Committees & Consultancies 2401-00-102-0-28(059)	Rs. 60.00 lakhs	Rs.46.90 lakhs	Rs. 36.00 lakhs	Rs.29.34 lakhs	Rs.50.00 lakhs

**h. Physical Achievements (Units: in Nos):**

2017-18		2017-18		<b>Audit Observations</b>
<b>Tar</b>	<b>Tar</b>	<b>Tar</b>	<b>Ach</b>	
500	385	540	552	To be audited for 2018-19

- i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.

-Not Applicable-

a	Name of the scheme and year of Introduction	Farmers Suicide Year : 2003-04 (18-07-2003)
b	Budget Head	2401-00-102-0-28 Plan sub Head:100
c	Central & State share under the scheme	State Sector Scheme (0:100)
d	Objective of the Programme	To provide Rs.5.00 lakh as relief amount to the deceased farmer family who commit suicide due to debt
e	Estimated benefit & number of beneficiaries	-
f	Financial (Rs. In Lakhs)	An amount of Rs. 4600.00 lakhs has been provided for the scheme during 2018-19 .

**g. Financial Expenditure (Rs. in lakhs) Plan:**

<b>Sl. No.</b>	<b>Name of the Scheme &amp; Budget Head</b>	<b>Progress 2017-18</b>		<b>Progress 2018-19</b>		<b>Grants for 2019-20 Grants released</b>
		<b>Grants released</b>	<b>Acheivement</b>	<b>*Grants released</b>	<b>**Acheive ment</b>	
1	Farmers Suicide 2401-00-102-0-28 (100)	4673.00	4587.11	4600.00	4841.49	4500.00

\* 2018-19 an amount of 3000.00 lakhs and from re-appropriation an amount of Rs.1600.00 lakh, total Rs. 4600.00 was released for the farmers suicide scheme.

\*\*2018-19 an additional expenditure of Rs. 241.49 lakh was borne from Relief to farmers accidental death and loss of fodder/hay due to fire accidents Scheme.

**h. Physical Achievements (Units: in Nos):**

2017-18		2018-19		<b>Audit Observations</b>
<b>Tar</b>	<b>Ach</b>	<b>Tar</b>	<b>Ach</b>	
-	923	-	970	To be audited for 2018-19

- i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.

“ Not Applicable ”

a)	Name of the scheme and year of Introduction	KRISHI PANDIT PRASHASTHI, 2001-02
b)	Budget Head	2401-00-109-0-21 : Sub head 059
c)	If Plan, the Central & State share is	State sector scheme - 0:100
d)	Objective of the Programme/Project/Scheme:	<p>Phenomenal increase in agricultural production since the past three decades has been possible due to creative and innovative efforts of farmers. In order to recognise and encourage farmers who have contributed to the welfare of the farming community through their innovations &amp; constructive work in Agriculture.</p> <p>Krishi Pandit Prashasthi awards are presented to farmers under this scheme.</p>
e)	State &Estimated benefit & number of estimated beneficiaries from the Programme/Scheme: (measurable output at the end of the year)	34
f)	Financing: (Rs. in Lakhs)	Grants allotted during 2018-19 is 14.50 lakh Rs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20	
Grants	Exp	Grants	Exp	Grants	Exp
20.00	0.00	14.50	13.75	19.00	-

h) Physical Achievements (Units: in nos)

2016-17		2018-19		Two key Audit observations/ Inspection findings of year _____
Tar	Ach	Tar	ach	Audit has not been completed for the year 2018-19
34	0	28	28	

- i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

No Constraints

a)	Name of the scheme and year of Introduction	PRODUCTIVITY AWARDS TO FARMERS, 1992-93
b)	Budget Head	2401-00-109-0-21 : Sub head 059
c)	If Plan, the Central & State share is	State sector scheme - 0:100
d)	Objective of the Programme/Project/ Scheme:	Significant improvement in agricultural production since the past three decades has been possible due to active participation and innovative efforts of farmers. In order to recognise and encourage such farmers who have achieved higher yields in selected crops, Krishi Prashasti awards are presented to farmers at state, district & taluk levels.
e)	State &Estimated benefit & number of estimated beneficiaries from the Progra mme/ Project/Scheme: (measurable output at the end of the year)	682
f)	Financing: (Rs. in Lakhs)	Grants allotted during 2018-19- Rs 90.00 lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20	
Grants	Exp	Grants	Exp	Grants	Exp
50.00	42.43	68.00	66.35	89.00	-

h) Physical Achievements (Units: in nos)

2017-18		2018-19		Two key Audit observations/ Inspection findings of year
Tar	Ach	Tar	ach	
682	218*	682	313	Audit has been completed foar the year 2018-19

\* Due to drougt and other reasons, in 10 Districts, Farmers were not enrolled for crop competition during 2016-17, hence the progress was low.

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation: No Constraints

A	Name of the scheme and year of Introduction	Relief to farmers accidental death and loss of fodder/hay due to fire accidents.2010-11(17-05-2010)
B	Budget Head	2401-00-102-0-28 plan sub head:100
C	Central & State share under the scheme	State Sector Scheme (0:100)
D	Objective of the Programme	<p>Relief to families of farmers/agricultural labourers with an amount of Rs. 1.00 lakh in case of death due to snake bites, fall from trees and other accidental death while doing agricultural activities. Compensation upto Rs.10,000 for loss of fodder/hay due to fire accidents.</p> <p>As per GOVERNMENT ORDER NO: KruE 77 Kruyoka 2018, BANGALORE, DATED: 20-08-2018 the Compensation amount for Accidental death has been enhanced to Rs.2.00 lakhs &amp; for Hay loss maximum of Rs.20,000.</p>
E	Estimated benefit & number of beneficiaries	—
F	Financial (Rs. In Lakhs)	An amount of Rs.1035.00 lakhs has been provided for the scheme during 2018-19

#### G. Financial Expenditure(Rs.in lakhs) Plan:

Sl No.	Name of the Scheme & Budget Head	Progress 2017-18		Progress 2018-19		Grants for 2019-20
		Grants released	Acheive ment	*Grants released	*Acheive ment	
1	Relief to farmers accidental death and loss of fodder/hay due to fire accidents. 2401-00-102-0-28(100)	432.50	501.73	1035.00	768.87	1000.00

\* During 2018-19 an amount of Rs. 768.87lakhs has been utilised for accidental death and hay loss. An amount of Rs 241.49 lakhs has been utilised for Farmer suicide Scheme.

H. Physical Achievements(Units: in Nos):

2017-18		2018-19		<b>Audit Observations</b>
Tar	Ach	Tar	Ach	
-	1530	-	1905	To be audited for 2018-19

- i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.

“Not Applicable

a)	Name of the scheme and year of Introduction	Crop loan interest subsidy 2009-10
b)	Budget Head	2401-00-102-0-28 plan sub head: 059
c)	Central & State share under the scheme	State Sector Scheme (0:100)
d)	Objective of the Programme	The benefits of the 1% interest subsidy is available to the farmers who repay crop loan along with the interest within due date upto Rs. 1.00 lakh.
e)	Estimated benefit & number of beneficiaries	-
f)	Financial (Rs. In Lakhs)	An amount of Rs. 1077.37 lakhs has been provided for the scheme during 2018-19

g) Expenditure: ( Rs. in Lakhs)

Progress 2017-18		Progress 2018-19		Budget Estimate 2019-20
Grants released	Expenditure	*Grants released	Expenditure	Expected Grants
1050.00	1050.00	1077.37	1077.37	1000.00

\*2018-19 an amount of Rs. 1000.00 lakhs and from re-appropriation an amount of Rs. 77.37 lakh, total Rs. 1077.37 lakhs was released for the Crop loan interest subsidy scheme.

h.Physical Achievements(Units: in Nos):

2017-18		2018-19		<b>Audit Observations</b>
Tar	Ach	Tar	Ach	
-	229027	-	275118	To be audited for 2018-19

- j) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.

Not Applicable.

a	Name of the scheme and year of Introduction	Karnataka Agricultural Price Commission 2014
b	Budget Head	2401-00-102-0-28 Sub-head 059 & 103
c	Central & State share under the scheme	0: 100 (Centre : State Funding)
d	Objective of the Programme	To Provide remunerative price for the farm produce, Improving the basic facilities for market, stabilization of market through price and non-price mechanisms critical marketing interventions during the period of glut, crop insurance, etc.,
e	Estimated benefit & number of beneficiaries	-
f	Financial: (Rs. In Lakhs)	Financial Target for 2018-19 is Rs. 250.00 lakhs

g) Expenditure: (Rs. In Lakhs)

Actual/Accounts 2017-18 (Lakhs)		Revised Estimate 2018-19 (Lakhs)		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants(Lakhs)
210.00	181.13	250.00	184.46	350.00

h) Physical Achievements (Units: in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Achievement (up to the end of March 2018)	Audit upto 2017-18
-	-	-	-	

I) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

**Not Applicable**

a)	Name of the scheme and year of Introduction	Krishi Bhagya Scheme is being implemented from the year 2014-15
b)	Budget Head	2401-00-102-0-27 (059, 106, 422,423&133)

c)	Central & State share under the scheme	This is a State Sector scheme and Rs.500.00 crores was allocated for the year 2018-19,out of which Rs. 458.30 crores was released.
d)	Objective of the Programme	To improve rain fed agriculture scenario with the efficient management of rain water, to enhance the farm productivity. Thrust is being given to conserve rain water and utilize the collected water to irrigate the crop at critical stages of crop growth
e)	Estimated benefit & number of beneficiaries	<p>During 2018-19 under krishi bhagya and in convergence with watershed department scheme's, totally 69101(Krishi Bhagya-67582 &amp; convergence-1519) farm ponds have been constructed. Utilizing the conserved water in these farm ponds, approximately around 3.58 lakh acre area have been provided with protective irrigation during critical stages of crop growth, thus increasing the annual income of the farmer</p> <p>As per the evaluation studies conducted by State Agricultural Universities, the scheme has helped the farmers to protect the crop, by providing protective irrigation during critical stages of crop growth and thus enhancing yield and income of the farmer.</p> <p>It has helped vulnerable landless people in generating employment and thus preventing the migration of youths from the rural area.</p> <p>As per the thirty party evaluation report of NABARD, the outcome of schemes are as follows</p> <ol style="list-style-type: none"> <li>1. Adoption of scheme has resulted in significant change in the land use pattern and there is an increase in cropped area</li> <li>2. In districts where rainfall was comparatively better, particularly in southern districts, there was a shift in the cropping pattern from traditional field crops like Ragi, Jowar, Green gram, Maize etc., to high value horticultural crops like vegetables, flowers and fruits.</li> <li>3. The income level of farmers has considerably increased due to shift in the cropping pattern.</li> </ol>

		4. The water use efficiency has increased due to adoption of micro irrigation system like Sprinkler and Drip.
f)	Financing: (Rs. in Crores)	During 2018-19, Rs.500.00 crores was earmarked for the implementation of krishi Bhagya scheme, out of which only Rs.458.30crores was released. Rs. 6.00 crores and Rs.35.61 crores totally 41.61crores under krishi bhagya sub heads 059 and 106 sub head was reappropriated vide letter dated:FD 182 BRS 2018, Bangaluru, Dt:06.03.2019

g) **Expenditure: (Rs. in lakhs)**

Actuals/Accounts 2016-17		Actuals/Accounts 2017-18		Actuals/Accounts 2018-19		Budget Estimate 2019-20
Grants Released	Exp	Grants Released	Exp	Grants Releases	Exp	Expected Grants
50000.00	49925.00	64000.00	63301.00	45830.00	45741.00	25000.00

h) Physical Achievements (Units: in Nos)

2016-17			2017-18		2018-19		Audit observation
Components	Tar	Ach	Tar	Ach	Tar	Ach	Audit completed for the year or not.
Non polyhouse	35868	58501	70000	67215	62600	67582	-
Polyhouse	1522	950	0	0	0	0	

During 2016-17,2017-18 &2018-19 the Krishi Bhagya scheme was converged with the watershed development department schemes, under which 12136,13146 and 151 totally 26801 Farm ponds have been constructed.

**g) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation;**

During the initial stages of implementation of the programme, significant response was received from the farmers, but during the actual implementation, their response declined. In this context, during 2015-16, several field visits and discussions were held with

the farmers to exchange the ideas. Further suitable modifications in the strategies were made in guidelines for easy implementation of the programme.

Further to bring awareness in the farming community about this scheme, trainings and seminars were conducted at village level on war footing. Further, field days showcasing the benefits of the scheme were organized in the fields of farmers who had successfully implemented the programme. Wide publicity regarding the scheme was given in awareness programmes such as Krishi Abhiyan and Krishi Melas organised by State Agricultural Universities.

In 2016-17, farmers meet was organized in Koppal district to commemorate the success of the scheme. During the meet there was exchange of information, success stories of farmers were replicated which helped in motivating non-beneficiary farmers.

During the year 2017-18, “Farmers experience sharing workshop” was organized in Bangalore, mainly to share the experiences of farmers who had adopted the scheme in their farms. Farmers expressed that the scheme is highly beneficial especially for the dryland farmers, and has increased water use efficiency and area under irrigation. Further, by adopting fish rearing and integrated farming system, it has considerably increased the income level of farmers. As also the water stored has been serving as a source of water for animals during dry spells and for rural household activities. As there is huge demand by the farmers to adopt the scheme in their farms, the scheme has been converged and implemented with other schemes of the department and with other allied departmental schemes.

<b>a.</b>	Name of the Scheme and year of Introduction:	National Agricultural Insurance Scheme: Since Kharif 2000 <ul style="list-style-type: none"> <li>• Pilot Scheme on Weather based crop Insurance: Since Kharif 2007</li> <li>• Pilot Scheme on Modified National Agricultural Insurance Scheme: Since Rabi- Summer 2010-11.</li> <li>• Karnataka Raitha Suraksha Pradhanamantri Fasal Bima Yojana : Since Kharif 2016-17</li> </ul>
<b>b.</b>	Budget Head:	2401-00-110-0-07( Non Plan)
<b>c.</b>	Central and State Share under the Scheme:	50 : 50
<b>d.</b>	Objective of the Programme:	<ul style="list-style-type: none"> <li>a.To provide insurance coverage and financial support to the farmers in the event of failure of any of the notified crop as a result of pest &amp; diseases.</li> <li>b. To encourage the farmers to adopt progressive farming practices, high value inputs and higher technology in agriculture.</li> <li>c.To help stabilise farm incomes, particularly in disaster years.</li> </ul>

		d. The scheme compensates the insured farmers against the likelihood of financial loss on account of anticipated loss in crop yield resulting from incidence of adverse weather conditions.  e. To protect farmers in the event of crop failure due to natural calamities like hailstorm and landslide and to cover pre sowing and post harvest risk.
e.	Financial (in Lakhs):	Financial allocation for the year 2018-19 is Rs.84511.00 lakhs which is completely utilised.
f.	Estimated benefit & number of Beneficiaries	During 2018-19 Rs.84511.00 lakhs is allocated. This amount used towards  a) 2016-17 Rab/Summer State Government share of Premium subsidy under KRS-PMFBY & R-WBCIS.  b) 2017-18 Kharif State Government share of Premium subsidy under KRS-PMFBY & R-WBCIS. GoK share of claims settlement to eligible farmers among enrolled farmers.  c) CUG sim charges and CCE equipment purchase payment.  d) 2018-19 Kharif and Rabi-Summer State Government share of premium subsidy under KRS-PMFBY & R-WBCIS. GoK share of claims settlement to eligible farmers among enrolled farmers.

**g. Financial Expenditure(Rs.in lakhs) Non Plan:**

Sl No.	Name of the Scheme & Budget Head	Progress 2017-18		Progress 2018-19		Grants for 2019-20
		Target	Acheive ment	Target	Acheive ment	
1	NewCrop Insurance Scheme 2401-00-110-0-07	Rs. 84511.00 lakhs	Rs 84511.00. lakhs	Rs. 84511.00+ 4351.96 lakhs Rs.88862.96 lakhs	RS. 88848.22 lakhs	Rs. 84500.00 lakhs

**h. Physical Achievements(Units: in Nos):**

2017-18		2018-19		Audit Observations
Tar	Ach	Tar	Tar	
-	14,45,537	-	17,99,100	To be audited for 2018-19.

- i. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/ reaching out to the Beneficiaries and delay in implementation:**

"Not Applicable"

a)	Name of the scheme and commencement of the year	RSK Works (NABARD works)
b)	Budget – Head of Account	4401-00-001-1-01(Sub-Head 436)
c)	Central & State share under the scheme	State 100%
d)	Objective of the programme	Construction of New RSK Buildings at various places of Karnataka state under RIDF
e)	Estimated benefit and no.of beneficiaries	Not applicable
f)	Finance (in lakhs) 2018-19	Sub head 436 : 388.00 lakhs

g.) Expenditure (Rs in lakhs)

Actual /Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released Rs in lakhs	Expenditure Rs in lakhs	Grants released Rs in lakhs	Expenditure Rs in lakhs	Expected grants Rs in lakhs
1200.00	1142.70	388.00	388.00	4120.00

h) Physical achievement (Units : in nos)

2017-18		2018-19		Audit Observations
Target	Achievement	Target	Achievement	Just mention whether Audit has been completed for the year or not mention Audit Observation if any
Not applicable			No	

- i. Brief analysis of the performance trends and implementations constraints reason for short fall in delivering the benefit/ reaching out to the beneficiaries and delay in implementations.

Not applicable

A	Name of the scheme and commencement of the year	Capital Cost 04-09-1980
B	Budget – Head of Account	4401-00-001-1-01 (sub-head 139)

C	Central & State share under the scheme	State 100%
D	Objective of the programme	Construction of Building in JDA, ADA, DDA-1 & 2 and RSK Buildings.
E	Estimated benefit and no.of beneficiaries	Not applicable
F	Finance (in lakhs)	2018-19 Sub head 139 : 244-00 lakhs

G. Expenditure (Rs in lakhs)

Actual /Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released Rs in lakhs	Expenditure Rs in lakhs	Grants released Rs in lakhs	Expenditure Rs in lakhs	Expected grants Rs in lakhs
300.00	300.00	244.00	244.00	1000.00

H. Physical achievement (Units : in nos)

2017-18		2018-19		Audit Observations
Target	Achievement	Target	Achievement	Just mention whether Audit has been completed for the year or not mention Audit Observation if any
-	-	-	-	No

- i) Brief analysis of the performance trends and implementations constraints reason for short fall in delivering the benefit/ reaching out to the beneficiaries and delay in implementations.

Not applicable

a)	Name of the scheme and year of Introduction	Agricultural Farms & Developmental Centers
b)	Budget Head	2401-00-104-0-10 (Non Plan)
c)	If Plan, the Central & State share is	Not applicable
d)	Objective of the Programme/Project/ Scheme:	Foundation and Certified Seed Productions are taken up in seed farms and quality seeds are being distributed to the farmers through Karnataka State Seed Corporation.

e)	State & Estimated benefit & number of estimated beneficiaries from thProgramme/Project/ Scheme: (measurable output at the end of the year)	Quality seeds are being distributed to the farmers through Karnataka State Seed Corporation.
f)	Financing:(Rs. in Lakhs)	Grants allotted during the year 2019-20 is Rs. 165.00 lakhs

**g) Expenditure: (Rs. in Lakhs)**

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants
1	2	3	4	5
123.48	121.10	147.62	147.62	165.00

**h ) Physical Achievements (Units: in hectares)**

2017-18		2018-19		Audit observations
1		2		4
Target	achievement	Target	achievement	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any.
91.00	51.23	97.60	78.60	During audit no observations have been made regarding seed farms.

**i Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:**

Mainly Foundation and Certified Seed Productions are taken up in these agricultural farms and agricultural development centers and quality seeds are being distributed to the farmers through KSSC. Breeder seeds required for organising foundation seed production is obtained from the University of Agricultural Sciences , Bangalore and Dharwad in advance. Based on the availability of Breeder seeds with Agricultural Universities, the seeds are reallocated to the agricultural farms and agricultural development centers and the remaining area is utilised for certified seed production. Seed production in seed farms is restricted usually to irrigated areas. In dry and other areas Horticulture, Forest/ Bio fuel plants are taken up.

a)	Name of the scheme and year of Introduction	Seed Farms
b)	Budget Head	2401-00-103-0-01 ( Non plan)
c)	Central & State share under the scheme	Not applicable
d)	Objective of the Programme	Foundation and Certified Seed Productions are taken up in seed farms and quality seeds are being distributed to the farmers through Karnataka State Seed Corporation.
e)	Estimated benefit & number of beneficiaries	Quality seeds produced in the seed farms are being distributed to the farmers through Karnataka State Seed Corporation.
f)	Financing: (Rs. in Lakhs)	Financial Target for 2019-20 is Rs.492.00 lakhs

**g) Expenditure: (Rs. in Lakhs)**

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Expenditure	Grants released	Expenditure	Expected Grants
343.29	333.99	429.64	429.64	492.00

**h) Physical Achievements (Units: in hectares)**

2017-18		2017-18		Audit observations
Target	Achivement	Target	Achivement	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any.
441.61	274.96	247.92	232.36	During audit no observations have been made regarding seed farms.

**ii) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:**

Mainly Foundation and Certified Seed Productions are taken up in these farms and quality seeds are being distributed to the farmers through KSSC. Breeder seeds required for organising foundation seed production is obtained from the University of Agricultural Sciences , Bangalore and Dharwad in advance. Based on the availability of Breeder seeds with Agricultural Universities, the seeds are re-allotted to the Seed Farms and the remaining area is utilised for certified seed production. Seed production in seed farms is restricted

usually to irrigated areas. In dry and other areas Horticulture, Forest/ Bio fuel plants are taken up.

## 2. District Sector Schemes

a	Name of the scheme and year of Introduction	Raitha Mitra Yojane- Farm Clinics -Plan, (District Sector)  This Scheme was started during 2000-01 under State Sector and from 2005-06 it has been implemented under District Sector.
b	Budget Head	2435-00-101-0-31
c	Central & State share under the State Sector.	District Sector Scheme-Rs.366.56 lakhs
d	Objective of the programme	This scheme is implemented to take necessary field demonstrations and also for the daily maintenance of the Raitha Samparka Kendras activities including maintenance of the buildings and other basic facilities.
e	Estimated benefit & number of beneficiaries	Under this scheme grants utilized for the daily maintainance of the Raitha Samparka Kendras activities including maintainance of the buildings and other basic facilities.
f	Financial (Rs.in lakhs)	Financial Target for 2018-19 is Rs.366.56lakhs.

g) Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp (March-2019 end)	Expected Grants
357.52	299.69	366.56	295.48	399.02

h) Physical Achievements (Units:in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach (March-2019 end)	Just mention whether Audit has been completed for the year or not. Mention Audit observation if any
2497	2434	2497	2434	Audit has been completed for the year 2017-18 and there is no Audit observation

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

:Not Applicable

<b>a</b>	Name of the Scheme and Year of Introduction i)Title of the scheme ii)Year of Commencement-		<b>District Sector - Organic Manures Scheme(Plan)</b> Year of Commencement-2004-05		
<b>b</b>	Budget Head		2435-00-101-0-34 (Plan)		
<b>c</b>	Central and State Share under the scheme		District Sector Scheme (100% State share) (0:100)		
<b>d</b>	Objectives of the Programme		1. Decrease the usage of Chemical fertilizer in Agriculture and to popularise the use of organic manures by providing them to the farmers at subsidised rates. 2. Maintenance of Soil Health and fertility.		
<b>e</b>	Estimated Benefit and number of Beneficiaries		Estimated Benefit : Use of organic manures have been popularised among the farming community. <b>No. of beneficiaries is on an average: 12305</b>		
<b>f</b>	Finance : (Rs.in lakhs)		Financial Target for 2018-19 is Rs.307.20 Lakhs		
<b>g</b>	Expenditure : (Rs.in lakhs)				
	<b>Actual Accounts 2017-18</b>		<b>Revised Estimate 2018-19 (till the end of Mar-2019)</b>		<b>Budget Estimate 2019-20</b>
	<b>Grants Released</b>	<b>Expenditure</b>	<b>Grants Released</b>	<b>Expenditure</b>	<b>Expected Grants</b>
	261.87	239.01	307.20	293.39	335.54
<b>h</b>	<b>Physical Achievements : (Unit : Hectares)</b>				
	<b>2017-18</b>		<b>2018-19</b>		<b>Audit Observations</b>
	<b>Tar</b>	<b>Ach</b>	<b>Tar</b>	<b>Ach (Till the end of Mar-2019)</b>	
	Ha: 12549	Ha: 11302	Ha: 12549	Ha: 12053	2018-19 accounts not audited.
<b>i</b>	Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation.			The scheme has been implemented successfully by achievivng 95.50% financial progress. This has helped in improving the soil fertility apart from realising better yield.	

a)	Name of the scheme and year of Introduction	Agricultural Farms & Developmental Centers
b)	Budget Head	2435-00-101-0-40 (Plan)- Zilla Panchayat
c)	If Plan, the Central & State share is	0:100
d)	Objective of the Programme/Project/ Scheme:	This programme is implemented by Zilla Panchayath. This amount is utilized in the seed farms for different agricultural activities, purchase of Bullocks, repairs of power tillers / tractors , pipeline attachments and other developmental works.
e)	State & Estimated benefit & number of estimated beneficiaries from the Programme/Project/ Scheme:  (measurable output at the end of the year)	Different agricultural activities, purchase of Bullocks, repairs of power tillers / tractors , pipeline attachments and other developmental works are carried out.
f)	Financing: (Rs. in Lakhs)	Grants allotted during the year 2019-20 – Rs64.90 lakhs

**g) Expenditure: (Rs. in Lakhs)**

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants
55.73	54.41	69.90	68.03	64.90

**h) Physical Achievements (Units: in Nos)**

2017-18		2018-19	
Target	achievemrnt	Target	achievemrnt
12	10	10	10

**i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:**

This programme is implemented by Zilla Panchayath. During 2018-19 an amount of Rs. 69.90 lakhs was provided under this programme.By the end of 2018-19 an amount of Rs. 68.03 lakhs has been spent . This amount is utilized in the seed farms for different agricultural activities, purchase of Bullocks, repairs of power tillers / tractors , pipeline attachments and other developmental works.

**Chapter 3:** Not applicable

**Chapter 4:** Not applicable

a)	Name of the scheme and year of Introduction	ASSISTANCE TO FARMERS
b)	Budget Head	2435-00-101-0-63
c)	If Plan, the Central & State share is	District sector scheme - 0:100
d)	Objective of the Programme/Project/ Scheme:	In order to feed the growing population it is essential to provide necessary techniques and technology alongwith distribution of pesticides and sprayers under subsidy to farmers to control insects, diseases and weeds of crops effectively.
e)	State & Estimated benefit & number of estimated beneficiaries from the Programme/ Project/Scheme: (measurable output at the end of the year)	The crops are effectively protected from different pests and there is increase in production and productivity. About 28504 farmers are benefitted by this programme
f)	Financial: (Rs. in Lakhs)	Grants allotted during the year 2018-19 is Rs. 170.426 lakh

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2016-17		Actual/Accounts 2017-18		Actual/Accounts 2018-19		Budget Estimate 2019-20
Grants	Exp	Grants	Exp	Grants	Exp	Expected Grants
170.701	161.254	157.554	152.785	170.426	156.178	273.58

h) Physical Achievements (Units: in nos)

Unit	2016-17		2017-18		2018-19		Two key Audit observations/Inspection findings of year 2018-19
	Tar	Ach	Tar	Ach	Tar	Ach	
Nos	11600	5956	22622	7630	14155	4435	Audit done at District level
Ha.	22400	22720	6606	18348	24944	24139	

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation:

The programme is successfully implemented by timely and effective control of different pests of crops and production was increased by the quality pesticides and sprayers distributed to the farmers under subsidy.

a	Name of the scheme and year of starting	Agriculture extension and training <b>District agriculture training centre (plan) - district sector - 2005-06</b>
b	Budget head of account	<b>2401-00-109-0-21 (Plan) - from 2005 to 2011</b> <b>2435-00-101-0-31 (Plan) - from 2011-12.</b>
c	Central and state share if any	0:100
d	Programme/project/ scheme objectives	<ul style="list-style-type: none"> <li>▪ Imparting training in adoption of new agriculture technology to the farmers &amp; farm women based on local problems, demands and needs of the farming community.</li> <li>▪ To enhance the Professional efficiency of the agricultural extension officers.</li> </ul>
e	Expected outcome of the Programme/ project/ scheme (a)& expected beneficiaries (b) (measurable outcome at the end of the year)	<p>(a) Knowledgeable farming community who are able to adopt improved farming technologies.</p> <p>(b) Farmers/ farm women &amp; extension officers (Total number of persons trained)</p>
f	Finance (Rs.in lakhs)	Financial target for the year 2018-19 is Rs.155.68 lakhs.

g. Expenditure : (Rs. in lakhs)

Actual/Accounts 2017-18		2018-19		Budget Proposed 2019-20
Amount Released	Expenditure	Amount Released	Expenditure	156.30
138.81	136.70	144.37	140.08	

h. Physical Achievements (Units :in Nos)

<b>Unit - Number of persons trained - farmers /farm women/extension officers)</b>				
<b>2017-18</b>		<b>2018-19</b>		<b>Audit Details</b>
<b>Target</b>	<b>Achievement</b>	<b>Target</b>	<b>Achievement</b>	
11880	13163	11880	13229	-

- j. Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

### **3. Centrally Sponsored Schemes**

a)	Name of the scheme and year of Introduction	National Food Security Mission- Rice, Pulses, 2007-2008 National Food Security Mission- Coarse Cereals, 2014-15 and Additional Rabi/Summer Area Pulse Production programme 2013-14
b)	Budget Head	2401-00-102-0-08
c)	Central & State share under the scheme	Central & State share - (60:40)
	Objective of the Programme	1. Increasing production of rice, pulses and coarse cereals through area expansion and productivity enhancement in a sustainable manner. 2. Restoring soil fertility and productivity at the individual farm level. 3. Improving economic conditions of the farmers.
e)	Number of beneficiaries	Number of beneficiaries under NFSM during the year 2018-19: NFSM (Rice) – 39555 NFSM (Pulse) – 1445542 NFSM (Coarse Cereals)- 26811 Additional Rabi/Summer Area Pulse production programme- 105317 NFSM (Nutri Cereals ):131381 Commercial Crops -4059 Total - 1752665

f)	<p>Financial (Rs. in lakhs)</p>	<p>Financial Target for 2018-19 is NFSM(Rice) Rs 1073.89 lakhs NFSM(Pulses) Rs 13584 lakhs NFSM(Coarse cereals) Rs. 1332.70 lakhs NFSM (Nutri Cereals ): Rs 2787.30. Additional Rabi area Pulses Programme Rs .4100.00 lakhs Commercial Crop-Rs. 193.20 lakhs Intercropping pulses with Sugarcane: Rs.90.10 lakhs Sub Total Rs. 23161.69 lakhs DSR -800.00 Total-23961.19</p>
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g) Expenditure: (Rs. in lakhs)

Actual / Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants
21529.400	17988.287	17504.72	17064.01	17477.00

f) Physical Achievements (Units: in Nos.)

2016-17		2017-18 (up to end of March 2018))		Audit observations
Tar	Ach	Tar	Ach	
		Copy enclosed		Audit for the expenditure incurred during 2017-18 is under process

Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation: Provide brief information. If not applicable please mention 'Not Applicable'

- Increase in the production of rice, pulses, and coarse cereals through area expansion and productivity enhancement in a sustainable manner is the major objective of National Food Security Mission being implemented in the State.

#### **Implementation constraints:**

- Differences in the subsidy components provided to Hi tech implements in different Central sector schemes.

#### **Planning Section Budget and Programmes:**

During the year 2018-19, an amount of Rs 319791.00 lakhs has been allocated in the budget to implement plan and non-plan schemes of Agriculture Department. Out of this

Rs.296469.00 and Rs. 23322.00lakhs has been provided for plan and non-plan schemes respectively. In department of agriculture there are mainly two head of accounts viz., 2401-Crop Husbandry, 2402- soil survey and testing and in addition 4401- capital outlay (Agriculture) under which programs are implemented. The department of Agriculture is implementing totally 28 schemes out of which 18 schemes are implemented under plan schemes and the remaining 10 schemes are implemented under non plan schemes. The details are as bellow:

## **2. Budget allocation of Centrally Sponsored Schemes (State Sector) (Rs.inLakhs)**

<b>Sl. No.</b>	<b>Head of Account</b>	<b>Name of the Scheme</b>	<b>Grants</b>
1	2401-00-102-0-08	National Food Security Mission (NFSM)	23161.69
2	2401-00-108-1-15	National Mission for Sustainable Agriculture (NMSA)	24590.00
3	2401-00-114-0-01	National Mission on Oilseeds & Oil Palm (NMOOP)	1666.67
4	2401-00-800-1-53	National Mission on Agricultural Extension & Technology (NMAET)	2254.00
5	2401-00-800-1-57	Rashtriya Krishi Vikas Yojana (RKVY)	56833.00
6	2401-00-800-1-69	National e-Governance Agriculture Project (NeGP-A)	0.00

## **3. Zilla Panchayat Schemes allocation during 2018-1 (Rs.inLakhs)**

<b>S. N</b>	<b>Head of Account</b>	<b>Name of The Scheme</b>	<b>Grants</b>
<b>State Plan Schemes-Zilla Panchayat Programmes during 2016-17</b>			
1	2435-00-101-0-29	Other Agriculture Schemes	778.80
2	2435-00-101-0-31	Farm Related Activities	462.89
3	2435-00-101-0-41	Supply of Crop Estimation Survey Equipments under Crop Insurance Scheme	16.57
4	2435-00-101-0-33	Agriculture Office Building	505.10
5	2435-00-101-0-40	Agriculture farms & Development center	56.54
6	2435-00-101-0-34	Organic Fertilizers	241.10
<b>Total Zilla Panchayat Schemes</b>			<b>2061.00</b>
<b>Taluk Panchayat Programmes Allocation during 2016-17</b>			
1	2435-00-101-0-63	Plant Protection-Assistance to Farmers	204.37
2	2435-00-101-0-65	Agricultural Fairs & Exhibition	49.63
<b>Total Taluk Panchayat Schemes</b>			<b>254.00</b>

Centrally Sponsored Schemes allocation under District sector 2018-19			
1	2401-00-196-6-13	Oilseeds Production Programme	687.00
Non Plan Schemes allocation under District Sector during 2018-19			
1	2401-00-196-1-01	Assistance to Zilla Panchayats	687.00
2	2401-00-197-1-01	Assistance to Taluk Panchayats	0.00
	Total		1374.00

\*Total-State schemes-Rs.191927.00 lakhs +Centrally Sponsored Schemes – Rs 101577.00 lakhs + Zilla Panchayat/ Taluk Panchayat Schemes –Rs.2965.00 lakhs =Rs.319791.00 lakhs.

## NATIONAL FOOD SECURITY MISSION

**The Districts covered under NFSM Scheme are**

**NFSM Rice:** 7Districts such as Belagavi, Shivamogga, Haveri, Udupi , Dakshina Kannada,Uttara Kannada and Yadagiri.

**NFSM Pulses:** 29 Districts such as Bengaluru, Bagalkote, Belagavi, Ballari, Bidar, Chitradurga, Davanagere, Dharwad, Gadag, Kalaburagi, Koppal, Mysore, Raichur,Tumkur, Kolar, Chickaballapur, Chickkamagalur, Chamarajanagar, Ramanagar, U.Kannada, D.Kannada, Hassan, Haveri, Shivamogga, Mandya, Madikeri, Udupi, Vijayapura and Yadagiri.

**NFSM Coarse Cereals:** 8 Districts such as Bagalkote, Belagavi, Ballari, Chitradurga, Chikkaballapur, Davanagere, Haveri, and Hassan

**NFSM Nutri Creasls:** 24 Districts such as Bengaluru, Bagalkote, Belagavi, Ballari, Bidar, Chitradurga, Davanagere, Dharwad, Gadag, Kalaburagi, Koppal, Mysore, Raichur,Tumkur, Kolar, Chickaballapur, Chickkamagalur, Chamarajanagar, Ramanagar, Hassan, Haveri, Mandya, Vijayapura and Yadagiri.

**NFSM-Additiona Rabi Area Production Programme :** 12 Districts such as Bagalkote, Belagavi, Ballari, Bidar, Chitradurga, Kalaburagi, Dharwad, Gadag, Koppal, Raichur, Vijayapura and Yadgiri.

**NFSM- Direct Seed Rice (DSR) method of cultivation:** Was conducted in 10 Districts (which were not included under NFSM Rice Programme).Districts such as : Ballari, Chamarajanagar, Chickkamagalur, Davanagere, Dharwad, Hassan, Koppal, Mandya , Mysore, and Raichur.

**NFSM- Commercial Crop-Cotton:** 7 Districts such as Belagavi, Davanagere, Dharwad, Kalaburagi, Haveri, Raichur, and Yadagiri.

**NFSM- Commercial Crop-Sugarcane:** 6 Districts such as Bagalakote, Belagavi, Bidar, Davanagere, Kalaburagi, and Mandya.

**NFSM- Intercropping of Pulse with Sugarcane :** 9 Districts such as Ballari, Bidar, Davanagere, Dharwad, Kalaburagi, Haveri, Mandya ,Mysore and U.Kannada.

In order to increase the productivity of Rice ,Pulses, Coarse Cereals, Nutri Creasl and Commercial Crops in the State during the year 2018-19 as Gov.of India has accorded approval with the budget provision as below.

**Programmes under NFSM during 2018-19 (Rs. in lakhs)**

<b>Programme</b>	<b>Budget</b>
NFSM(Rice)	1073.89
NFSM(Pulse)	13584.00
NFSM(Coarse Cereals)	1332.70
NFSM(Nutri Cereals)	2787.30
Additional Area Pulses Production programme	4100.00
NFSM-Commercial Crop-Cotton & Sugarcane	193.20
NFSM-CommercialCrop-Intercropping Pulse with Sugarcane	90.10
Sub Total	23161.19
DSR	800.00
<b>Total</b>	<b>23961.19</b>

**ABSTRACT OF PROGRESS OF NFSM PROGRAMME 2018-19 (Rs. in lakhs)**

<b>Sl No</b>	<b>Programme</b>	<b>Budget Provision</b>	<b>Unspent balance</b>	<b>Grants Released by GoI</b>	<b>Grants Released by GoK</b>	<b>Total Grants Available</b>	<b>Exp. upto end of March 2019</b>
1	NFSM -Rice	1073.89	0.00	545.92	365.72	909.32	921.02
2	NFSM -Pulses	13584.00	0.00	5253.88	3502.58	8756.47	9352.80
3	NFSM - Coarse Cereals	1332.70	0.00	553.60	369.07	922.68	868.98
4	NFSM - Nutri Cereals	2787.80	0.00	1068.49	712.32	1780.82	1720.09
5	Additional Rabi Area Pulse Production Programme(ARPP)	4100.00	0.00	2460.00	1640.00	4100.00	3303.79
6	NFSM-Commercial Crop-Cotton & Sugarcane	193.20	0.00	86.94	57.96	144.90	114.01
7	NFSM-CommercialCrop-Intercropping Pulse with Sugarcane	90.10	0.00	54.06	36.04	90.10	78.61
8.	DSR	800.00	0.00	0.00	800.00	800.00	739.74
	Grand Total	23961.19	0.0	10022.89	7483.69	17504.29	17099.04

**ANNEXURE - 1**

**PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION – RICE -  
DURING THE YEAR- 2018-19**

(Financial Rs. in lakhs)

Sl. No.	Interventions	Unit	Targets		Achievement	
			Phy	Fin	Phy	Fin
1.	Demonstrations	Ha	15162	672.04	21182	556.08
2	Seed Distribution	Qtls	6950	120.00	2217	41.35
3	Plant Protection and Soils Management	Ha	23006	115.03	22565	139.63
4	Resource Conservation Techniques/Tools	No.	170	61.50	733	99.91
5.	Water Application Tools					
	(a) Pump Sets	No.	500	50.00	265	16.92
	(b) Water Carrying Pipes	Mtrs	10000	35.00	0	0.00
	Sub Total 5 (a) to 5 (b)	ha	10150	50.00	265	16.92
6.	Cropping System based trainings	Nos	152	5.32	113	4.52
7	Misecellaneous Expenses(Local &Other initiatives)					
	a)Dist.of Greenmanure seeds &Demo.by NGOs	ha	2500	50.00	2724	62.58
	b)Distribution by Cage wheels,Power Reapers, Mini Rice Mill,Flour Mill/Pulverisizers	Nos.	0	0.00		
	Sub Total 7 (a) to 7 (b)			50.00	2724	62.58
	GRAND TOTAL			1073.89		921.02

## ANNEXURE - 2

### PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION – PULSES DURING THE YEAR- 2018-19

( Financial Rs. in lakhs)

Sl. No.	Interventions	Unit	Targets		Achievement	
			Phy	Fin	Phy	Fin
1.	Demonstrations	Ha	43200	4419.00	60885	3441.89
2	Seed Distribution	Qtls	49125	2046.25	42782	1214.26
3	Seed production	Qtls	36050	1802.50	27620*	1381.03*
4	Integrated Nutrient management	Ha	74000	352.50	38440	168.63
5	Integrated Pest Management	Ha	371500	1857.50	356686	1849.58
6	Resource Conservation Techniques/Tools	No.	53630	1690.00	59894	1475.58
7	Water Tools					
	(a) Pump sets	Ha	1000	100.00	2357	230.37
	(b) Sprinkler Sets	No	1000	100.00	3927	386.53
	(c) Water Carrying Pipes	Mtrs	2500000	875.00	463581	405.23
	Sub Total 7 (a) to 7 (b)			1075.00	469865	1022.13
8	Cropping System based trainings	Nos	250	8.75	110	4.01
9	Misecellaneous Expenses					
	a) Project Management Team & Other misc. expenses at District level	Nos	27	270.00		138.42
	b) Project Management Team & Other miscellaneous expenses at State level	Nos	1	17.00		14.14
	Sub Total 9 (a) to 9 (b)		28	287.00		152.56
10	Local Initiatives	Nos	800	45.50	117	4.81
11	Other Initiatives:Demonstration by NGOs	Ha	0	0.00		
	GRAND TOTAL Excluding Committed expenditure			13584.00		9352.80
	GRAND TOTAL Inclusive of Committed expenditure					10714.48

\* Committed expenditure for 2019-20

### ANNEXURE - 3

#### **PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION –Additional Area Coverage for increasing Pulse Production During Rabi /Summer for the year - 2018-19**

( Financial Rs. in lakhs)

Sl. No.	Component	Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
1.	Demonstrations	Ha	19000	1650.00	21087	1278.45
2	Seed Distribution	Qtls	16000	600.00	19370	476.16
3	Integrated Nutrient Management	Ha	32000	175.00	32059	184.44
4	Integrated Pest Management	Ha	155000	775.00	174245	989.17
5	Resource Conservation Techniques/Tools	No.	5330	79.50	1227	19.80
6	Water Application Tools					
	(a) Pump sets	No	3205	320.50	1432	127.12
	(b) Sprinkler Sets	Ha	5000	500.00	4088	401.27
	<b>GRAND TOTAL</b>			<b>4100.00</b>		<b>3303.79</b>

### ANNEXURE - 4

#### **PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION -COARSE CEREALS DURING THE YEAR- 2018-19.**

Sl. No.	Interventions	Unit	Targets		Achievement	
			Phy.	Fin.	Phy.	Fin.
<b>1.Demonstrations of Improved Package (Rs.6000/-ha)</b>						
a) Demonstrations of Maize -Improved Package			0	0.00	11021	386.14
b) Demonstrations -Inter crop with Pulses						
i) Maize +Tur (3:1)/(6:1)		Ha	20000	1000.00	14321	449.86
ii) ) Maize +Pulses			1545	77.70	754	18.51
iii) ) Maize +Soyabean			2100	105.00	0	0.00
iv) ) Maize +Green gram			3000	150.00	715	14.27
<b>Sub total 1 (a) and 1(b)</b>			<b>26654</b>	<b>1332.70</b>	<b>26811</b>	<b>868.98</b>
<b>Grand Total</b>				<b>1332.70</b>		<b>868.98</b>

## ANNEXURE - 5

### **PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION –Nutri Cereals for the year - 2018-19**

(Financial Rs. in lakhs)

Sl. No.	Component	Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
1.	Demonstrations	Ha	18315	1098.90	21202	926.32
2	Seed Distribution	Qtls	23925	616.00	5339	92.48
3.	Seed production	Qtls	8850	265.50	11089*	332.67*
4	Integrated Nutrient Management	Ha	95000	475.00	78718	398.02
5	Integrated Pest Management	Ha	40000	200.00	35919	185.91
6	Water Application Tools					
	(a) Sprinkler Sets	Ha	1200	120.00	1317	134.31
7	Cropping System based trainings	Nos	60	8.40	52	2.17
	GRAND TOTAL Excluding Committed expenditure			2783.80		1720.21
	GRAND TOTAL Inclusive of Committed expenditure					2071.88

\* Committed expenditure for 2019-20

## ANNEXURE - 6

### **PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION- COMMERCIAL CROP -COTTON-DURING THE YEAR 2018-19. ( Financial Rs. in lakhs)**

Sl. No.	Component	Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	Frontline Demonstration on Integrated Crop Management	Rs. 8000/Ha	Ha	620	49.60	795	38.63
2	Frontline Demonstrations on Intercropping	Rs 8000 /Ha		600	48.00	841	
3	Efficient Weed Management Practice in Bt Cotton	Rs 500 /Ha	Ha	5400	27.00	4918	24.69
	<b>GRAND TOTAL</b>				<b>124.60</b>		<b>63.32</b>

**ANNEXURE - 7**

**PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION-  
COMMERCIAL CROP – SUGARCANE DURING THE YEAR 2018-19**

Sl. No.	Component	Rate of Assistance	Unit	Target		Achievement	
				Phy.	Fin.	Phy.	Fin.
1	Demonstration on intercropping	Rs 9000/Ha	Ha	512	46.08	516	33.67
2	Distribution of Plant Protection Chemical and Bio agents	Rs 500 / Ha	Ha	4504	22.52	3941	17.02
<b>GRAND TOTAL</b>					<b>68.60</b>		<b>50.69</b>

**ANNEXURE - 8**

**PROGRESS REPORT OF NATIONAL FOOD SECURITY MISSION –Intercropping  
of Pulses with Sugarcane for the year - 2018-19**  
( Financial Rs. in lakhs)

Sl. No.	Component	Unit	Target		Achievement	
			Phy.	Fin.	Phy.	Fin.
1	Demonstrations					
a)	Demonstrations on Intercropping (specify the intercrop) in Sugarcane					
	(i) Bengal Gram	Ha	450	40.50	460	39.41
	(ii) Cowpea		400	36.00	434	29.96
	(iii) Avare		0	0.00	0	0.00
	Total		850	76.50	894	69.37
2	Distribution of Certified Seeds:					
(a)	Seeds	Qtls				
	Less than 10 Years varieties		50	2.50	6	0.31
	More than 10 Years		300	7.50	50	1.25
	Seed total		350	10.00	56	1.56
3)	Distribution of PP chemicals/bioagents	Ha	250	1.25	1094	5.59
4)	Distribution of Biofertilizers	Ha	250	0.75	164	0.52
5)	State Level Training	No	4	1.60	2	0.80
	Total			3.60		10.03
	<b>GRAND TOTAL</b>				<b>90.10</b>	<b>78.61</b>

a	Name of the scheme and year of Introduction	<b>National Mission On Oilseeds and Oilpalm (NMOOP) 2004-05</b>
b	Budget Head	2401-00-114-0-01(State Sector)2435-00-101-0-03 (ZP Sector)
c	Central & State share under the scheme	60:40
d	Objective of the Programme	<ul style="list-style-type: none"> <li>• Increasing production,productivity of oilseed crops</li> <li>• Adoption of Integrated Nutrient Management, &amp; Integrated Pest Management through Farmers Field Schools to increase productivity of oilseeds</li> <li>• Introduction of new varieties and to increase availability of new varieties by giving Incentives to producers for quality seed production.</li> <li>• Improving the economic status of farmer.</li> </ul>
e	Estimated benefit & number of beneficiaries	<p>The productivity of the oilseed crops will be increased due to the implementation of the programme in the state. The programme will be helpful in attaining sustainable yields in oilseed crops. Large scale demonstrations on improved package of practices will create awareness among farmers which will result in increased productivity and thereby improving the economic conditions of the farmers.</p> <ul style="list-style-type: none"> <li>• 1284 Qts. of Certified Seeds are distributed</li> <li>• Oilseeds Large Scale Demonstrations are conducted at 3582 Ha.</li> <li>• Gypsum has been distributed around 9137 Ha.</li> <li>• Bio-fertilizers have been distributed around 7723 Ha.</li> </ul>
f	Financial(Rs.in lakhs)	Financial target for 2018-19 is Rs.1374.00 lakhs.

g) Expenditure(Rs.in lakhs)

<b>Actual 2017-18</b>		<b>Revised Estimate 2018-19</b>		<b>Budget Estimate 2019-20</b>
<b>Grants Released</b>	<b>Expenditure</b>	<b>Grants Released</b>	<b>Expenditure</b>	<b>Expected Grants</b>
1906.16	1766.38	1374.00	1294.74	670.00

h) Physical Achievements(enclosed)

2017-18		2018-19			Audit observations
Tar	Ach	Tar	Ach up to Mar-19		
195120	176337	80559	80769	Audit has not been done.	

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation:

Assistance is given only for varieties of oilseeds not older than 10-15 years under seed production and certified seed distribution component. The new varieties are not very popular among farms. Therefore the progress is less under this component.

**OILSEED PRODUCTION PROGRAMME(NMOOP) -2018-19 Rs:in Lakhs**

**(up to end of march 2019)**

(Financial Rs. in lakhs)

Sl. No	Item / Component	Unit	State Targets (60:40)		Achievement	
			Phy.	Fin.	Phy.	Fin.
I	<b>Seed Component</b>					
1	Purchase of Breeder seed	Qtls	1600	250.00	1952	254.11
2	Distribution of Certified Seeds	Qtls	1125	50.00	1284	36.14
	<b>Sub Total</b>		<b>2725</b>	<b>300.00</b>	<b>3236</b>	<b>290.25</b>
II	TOT Programmes					
3	a)Groundnut	Ha.	3867	386.67	2249	219.63
	b)Sunflower		1000	40.00	468	18.69
	c)Soyabean		1167	70.00	865	51.91
	Mission Management Expences			50.00		2.26
	<b>Sub Total</b>		<b>6034</b>	<b>546.67</b>	<b>3582</b>	<b>292.49</b>
	Non seed component					
4	Distribution of Gypsum/pyrites	Ha.	8000	60.00	9137	70.51
5	Rhizobium/PSB distribution	Ha	10000	30.00	7723	27.11
6	Distribution of PP chemicals	Ha	34000	170.00	27668	146.69
7	Micronutrients Distribution	Ha.	6000	30.00	5260	40.03
8	i)Mannual PP equipment	Nos	10000	80.00	4713	35.03
	ii) Power operated equipment		800	80.00	5470	138.67

Sl. No	Item / Component	Unit	State Targets (60:40)		Achievement	
			Phy.	Fin.	Phy.	Fin.
9	i)Mannual Agri implements	Mtr	2400	192.00	6875	115.60
	ii) Power operated implements		100	50.00	98	44.63
10	Sprinkler sets		500	50.00	438	37.07
11	Water carrying pipes		142857	50.00	141942	41.78
12	Seed Storage bins	Nos	2800	28.00	2828	14.88
	<b>Sub Total</b>		<b>71800</b>	<b>820.00</b>	<b>67382</b>	<b>712.00</b>
	<b>GRAND TOTAL</b>			<b>1666.67</b>		<b>1294.74</b>

#### **Abstract of Financial progress of the schemes implemented during 2018-19**

During the year 2017-18 The Budget allocation was a provision of 347622.47 lakhs for state sector / CSS Central Sector under the major Head 2401 and 4401 have been provided. The Department has incurred expenditure of all these schemes including CSS was 233501.04 Lakhs. The unspent balance as against the Govt. release was surrendered separately.

Sl.No	Name of the Scheme	Budget provision for the year 2016-17	Releases from Govt.	Expenditure upto the end of March-2017
1	2401-00-001-1-01 Commissionerate of Agriculture	2486.00	2486.00	2185.52
2	2401-00-103-0-15 Agricultural inputs and quality control	67501.69	67501.69	748.74
3	2401-00-104-0-12Organic farming	5657.00	5657.00	5606.77
4	2401-00-109-0-21 Agricultural Extension and Training	8518.09	8518.09	7780.13
5	2401-00-102-0-28 Other Agricultural Scheme	11121.00	11121.00	10686.37
6	2401-00-102-0-27-Krishi Bhagya	50000.00	50000.00	49925.00
	Toal State Sector	145283.78	145283.78	76932.53
1	2401-00-196-1-01-Block Grants ZP	2061.00	2061.00	2060.72
2	2401-00-197-1-01 -Block Grants Talluk Panchayath	254.00	254.00	240.58
	<b>Total District Sector</b>	<b>2315.00</b>	<b>2315.00</b>	<b>2301.30</b>

<b>Sl.No</b>	<b>Name of the Scheme</b>	<b>Budget provision for the year 2016-17</b>	<b>Releases from Govt.</b>	<b>Expenditure upto the end of March-2017</b>
10	2401-00-102-0-07 National Mission on Food Processing	88040.22	88040.22	88039.72
11	2401-00-102-0-08 National Food Security Mission	23161.69	16704.29	16365.11
13	2401-00-108-1-15Micro Irrigation and Sustainable Agriculture	38610.32	38610.32	32640.97
14	2401-00-114-0-01-NMOOP	979.67	687.00	680.36
15	2401-00-196-1-13 NMOOP ZP	687.00	687.00	614.41
16	2401-00-800-1-53 ATMA	10479.90	10479.90	10214.02
17	2401-00-800-1-57- RKVY	41784.00	41784.00	5048.15
18	2401-00-800-1-69- NAational E-Governance	191.64	191.64	129.09
	<b>Total</b>	200023.69	200023.69	154267.21
19	4401-00-001-1-01Capital Outlay	5209.00	5209.00	5185.89
		5209.00	5209.00	5185.89
	<b>Total</b>	<b>347622.47</b>	<b>347622.47</b>	<b>233501.04</b>

a)	Name of the scheme and year of Introduction	<b>National Mission for Sustainable Agriculture-Soil Health Management, 2014-15</b>
b)	Budget Head	<b>2401-00-108-1-16</b>
c)	If Plan, the Central & State share is	Central sponsored Scheme (60:40)
d)	Objective of the Programme/Project/ Scheme:	Setting up of new static/mobile/mini soil testing Laboratories Setting up of Village level soil testing laboratories Strengthening of existing state Soil testing laboratories. Setting up of new State Fertilizer Quality Control Laboratories. Strengthening of existing State Fertilizer Quality Control Laboratories.

e)	Estimated benefit & number of estimated beneficiaries	Action has been taken to establish 143 village level soil testing projects through beneficiaries. 2 Soil testing laboratories and 3 Fertiliser quality control laboratories have been strengthened.
f)	Financing: (Rs. in Lakhs)	Financial Target for 2018-19 is Rs. 998.35 lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants
1011.56	1000.24	1192.79	914.84	500.00

h) Physical Achievements (Units: in nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach	-
75	74	218	148	

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Action has been taken to establish 143 village level soil testing projects through beneficiaries by providing subsidy. 2 Soil testing laboratories and 3 Fertiliser quality control laboratories have been strengthened

a)	Name of the scheme and year of Introduction	<b>National Mission on Sustainable Agriculture-Soil Health Card Programme 2014-15</b>
b)	Budget Head	<b>2401-00-108-1-16 plan</b>
c)	If Plan, the Central & State share is	Central Sponsored scheme - 60:40
d)	Objective of the Programme/Project/ Scheme:	<ol style="list-style-type: none"> <li>1. To issue soil health cards to all farmers once in every 2 years and soil test based nutrient management practices to address nutrient deficiencies in fertilization practices.</li> <li>2. To develop and promote crop based nutrient management for enhancing nutrient use efficiency.</li> <li>3. Promote Integrated Nutrient Management (INM) through judicious use of chemical fertilizers, including secondary and micro</li> </ol>

		nutrients, in conjunction with organic manures and bio-fertilizers, for improving soil health and its productivity.
e)	Estimated benefit & number of estimated beneficiaries	There are 30 Soil testing laboratories (29 static + 1 mobile soil testing laboratory) analyzing soil samples under Agriculture department in Karnataka. During second year of 2 <sup>nd</sup> cycle (2018-19), During 2st year of 2 <sup>nd</sup> cycle (2018-19), 8.33 lakh soil samples have been collected and 9.91 lakh soil samples analysed , 61.57 lakh Soil health cards generated & 67.18 lakh Soil health cards. (pending targets of 2017-18 have been achieved during 2018-19)
f)	Financing: (Rs. in Lakhs)	Financial Target for 2018-19 is Rs. 2784.43 lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp Upto March2019	Expected Grants
1934.17	1867.25	2844.36	1192.79	<b>2379.85</b>

h) Physical Achievements (Units: in nos)

2019-20 (2st year of 2nd Cycle of Soil Health card)			Audit observations
Particulars	Tar	Achievement	-
Soil sample collection	8.33 lakh	8.33 lakh	
Soil sample analysi	9.91 lakh	9.91 lakh	
Soil health card printed	61.57 lakh	61.57 lakh	
Soil health card distribution	67.18 lakh	67.18 lakh	

iii) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

In Karnataka 78,32,189 farm holdings exist. Soil test values will get varied over a period of three years. Hence soil testing has to be done at least once in two years At present, 30 Soil testing laboratories are catering to the needs of state farmers in respect of soil testing. Government of India launched this programme on 19-02-2015 with the objective of collection and analysis of soil samples and issue soil health cards to all the farm holdings. Implementation of the programme by the department started vide G.O.No. AD 66 AMS

2015 ( I & II), dated 06-11-2015. The programme was launched on world Soil Day, December 5th 2015 and all the 30 soil health centres of the department have been made operational. Staff required for soil analysis in soil testing laboratories have been outsourced. one mobile soil testing laboratory has been established in Belagavi district. During Ist cycle (2015-16 & 2016-17), 16.83 lakh soil samples have been collected and analysed as against the target of 16.66 lakh soil samples , 78.32 lakh Soil health cards generated and distributed as against the target of 78.32 lakhs. During 2st year of 2<sup>nd</sup> cycle (2018-19), 8.33 lakh soil samples have been collected and 9.91 lakh soil samples analysed, 61.57 lakh Soil health cards generated & 67.18 lakh Soil health cards(2017-18 pending targets of soil sample analysis, soil health card printing and distribution is completed in 2018-19).

a	Name of the scheme and year of Introduction	Strengthening of Fertilizer Control Laboratories under NMSA-SHM scheme
b	Budget Head	2401-00-108-1-16 (059) Plan
c	Central & State share under the scheme	60:40 (Central: State)
d	Objective of the Programme	Strengthening of Fertilizer Quality Control Laboratories.
e	Estimated benefit & number of beneficiaries	Strengthening of Fertilizer Quality Control Laboratories
f	Financial: (Rs. In Lakhs)	During 2018-19, Rs. 102.88lakhs was released.

g) Expenditure: (Rs. In Lakhs)

Actual/Accounts 2017-18 (Lakhs)		Revised Estimate 2018-19 (Lakhs)		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp	Expected Grants(Lakhs)
81.267	80.926	102.88	102.062	-

h) Physical Achievements (Units: in Nos)

2017 - 18		2018– 2019		Audit observations
Tar	Ach	Tar	Achievement (up to the end of March 2019)	
5 (FCLs strengthening)	5	3 (FCLs strengthening)	3	Audit has been conducted in Head Office.

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation: **Not Applicable**.

a)	Name of Scheme and Year of Commencement	Chief Ministers Micro Irrigation Programme (PMKSY & RIDF)-Plan Scheme Implemented from the year 2003-04
b)	Budget Head of Account	Head of Account :- 2401-00-108-1-15 (Central Scheme), Sub code-059,106, 422,423 & 436
c)	If under Planned Scheme, Central and State Share	Sharing Pattern Central: State: 30:60 Based on farmer category (Small/Marginal/Big), 27-33% Central Share and 57-63% State share of subsidy is provided under object codes : 106, 422 & 423. Under object code -436-total 90% subsidy is provided under State share.
d)	Programme, Project and Purpose of the Scheme.	<ul style="list-style-type: none"> <li>• Reducing the cost of production</li> <li>• To provide irrigation to larger area with water available.</li> <li>• Helps to increase the income.</li> <li>• Reduces the incidence of pests and diseases.</li> <li>• Savings in use of power.</li> </ul>
e)	Programme's approximate beneficiaries ( to be measured during the year end)	182512 beneficiaries
f)	Financial(Rupees in Lakhs)	Financial target for 2018-19 was Rs. 49579.00 lakhs.

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants released	Exp	Grants released	Exp Upto March2019	Expected Grants
44281.82	42539.65	44735.30	44036.77	36818.00

h) Physical Achievements (Units: in nos)

2017-18		2018-19		Two key Audit observations/Inspection findings of year
Tar	ach	Tar	ach	Audit has been conducted up to 2017-18
231056.45	178920.56	182577.00	182512.06	

i ) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

a)	Name of Scheme and Year of Commencement	Paramparagat Krishi Vikas Yojane under National Mission on Sustainable Agriculture (NMSA) Year of Commencement : 2005
b)	Budget Head of Account	Head of Account :- Central Scheme- 2401-00-108-1-16 Sub code-059,106,422,423
c)	If under Planned Scheme, Central and State Share	60:40
d)	Objectives of Programme	Paramparagat Krishi Vikas Yojane The main objective of the scheme is production of quality and safe agricultural products free from chemicals & pesticides by adopting eco friendly low cost technologies that restore & maintain soil health. Under PKVY, organic farming is promoted through adoption of organic village by cluster approach and PGS Certification.
e)	Estimated Result and Beneficiaries from this Programme (As per Year ended result)	Paramparagat Krishi Vikas Yojane A total of 545 clusters of 50 acres (clusters) each have been selected throughout the state where traditional agriculture is followed with minimal fertilizer usage as per the guidelines of PKVY. An area of 10900 Ha. is being brought under organic cultivation benefiting 25968 farmers of the state.
f)	Financial(Rupees in Lakhs)	-

g) Expenditure: (Rs. in Lakhs)

Programme/ Scheme	Sub head	Budget provision 2017-18		Budget provision 2018-19		Budget estimate 2019-20
		Releases	Expenditure	Releases	Expenditure	Expected grants
Paramparagat Krishi Vikas Yojana (PKVY)	059	-	-	-	-	1734.00
	106	1360.70	1339.92	71.50	66.31	
	422	326.57	326.49	163.28	155.59	
	423	127.00	126.99	63.50	60.35	
	Total	1814.27	1793.39	298.28	282.25	

\*Grants of 2018-19 includes re-appropriated grants of 2015-16, 2016-17 & 2017-18.

h) Physical Achievements (Unit: Hectares))

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach*	Audited
10900 Ha.	10900 Ha.	10900 Ha.	10900 Ha.	No

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

Not Applicable

Scheme is being implemented through Dept. of Horticulture from 2018-19

a	Scheme Name & Year of Implementation	Support to State Extension Programmes for Extension Reforms-ATMA Scheme Agricultural Technology Management Agency also known as submission on Agri. Extension under National Mission on Agri. Extn. & Tech (NMAET).  In Karnataka State initially the scheme was implemented in 9 districts during 2005-06 followed by additional 4 districts subsequently. From 2007-08 the scheme was implemented in all 30 districts.
b	Head of Account	2401-00-800-1-53 (059) Plan
c	Sharing pattern	Since 2014-15 the pattern was 90:10 whereas from 2015-16 the sharing pattern is 60:40.
d	Programmes & Project objectives	The Scheme ‘Support to State Extension Programmes for Extension Reforms’ aims at making extension system farmer driven and farmer accountable by disseminating technology to farmers through new institutional arrangements viz. Agricultural Technology Management Agency (ATMA) at district level to operationalize the extension reforms on a participatory mode.  This Scheme shall focus on the following key extension reforms: <ul style="list-style-type: none"><li>• Encouraging multi-agency extension strategies involving Public/ Private Extension Service Providers.</li></ul>

		<ul style="list-style-type: none"> <li>• Ensuring an integrated, broad-based extension delivery mechanism consistent with farming system approach with a focus on bottom up planning process.</li> <li>• Adopting group approach to extension in line with the identified needs and requirements of the farmers in the form of CIGs &amp; FIGs and consolidate them as Farmers Producer Organisations;</li> <li>• Facilitating convergence of farmer centric programmes in planning, execution and implementation.</li> <li>• Addressing gender concerns by mobilizing farm women into groups and providing training to them.</li> </ul>
e	Approximate Project outcome and Beneficiaries annually	Increase in productivity through farmers participation for adopting agricultural technologies towards integrated farming system. Focused more on effective integration of all stake holders.
f	Financial Progress & Programmes	Financial Target for 2019-20 is Rs.53.79 Crores.

g) Expenditure(Rs.in lakhs)

2017-18		2018-19		2019-20	
Budget including OB	Expenditure	Budget including OB	Expenditure	Expected Budget	Expenditure
35.54	28.92	50.44	38.83	53.79	-

h) Physical Achievements(enclosed)

	2017-18		2018-19		Audit observation
	Tar	Ach	Tar	Ach	
Beneficiaries	126611	118423	239242	221085	Audit is pending for the year 2018-19.

i.	Brief analysis of the performance trends & implementation constraints, reasons for shortfall in delivering the benefit/reaching out to the beneficiaries and delay in implementation	Since the II Installment of grants released from GOI was during the fag end of financial period, the funds were not utilized at District level.  During 2018-19 the State faced severe drought situation during the initial Kharif, but later due to awareness generation on improved technologies and Integraed farming system, the farmer based activities resulted in good progress during the financial year as against the Action plan targets
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a)	Name of Scheme and Year of Commencement	RKVV-Distribution of Tarpaulins Implemented from the year 2006-07		
b)	Budget Head of Account	Head of Account :- 2401-00-800-1-57,Sub code-106,422,423		
c)	If under Planned Scheme, Central and State Share	Centrally sponsored(60:40)		
d)	Programme, Project and Purpose of the Scheme.	The objectives of the scheme is to help the farmers in qualitative processing of the agriculture produce which is helpful to farmers as well as consumers.To promote the use of appropriate technologies that reduces losses and improves quality of the produce and to reduce the labour dependency and drudgery in post harvest operations		
e)	Programme's approximate beneficiaries ( to be measured during the year end)	During the year 2018-19, 191190 Beneficiaries		
f)	Financial(Rupees in Lakhs)	Financial target for 2018-19 is Rs1910.00 lakhs.		
g)	Expenditure(Rupees in Lakhs)	<b>Actual/Accounts 2017-18</b>	<b>2018-19 (Upto March 2019)</b>	<b>Budget Estimate 2019-20</b>
		<b>Release</b>	<b>Expenditure</b>	<b>Expected Grants</b>
		-	1910.00	1908.83
				1000.00

h)	Physical Achievement (Unit: Hectares)	2017-18		2018-19 (Upto March 2019)		<b>Audit Observations</b> <b>Just Mention whether Audit has completed for the year or not.</b>
		Tar	Ach	Tar	Ach	
		-	-	191190	190423	-
i)	Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable	Not Applicable				
a	Name of Scheme and Year of Commencement	Sub Mission on Agricultural Mechanisation (SMAM) Implemented from the year 2015-16				
b	Budget Head of Account	Head of Account :- 2401-00-800-1-53, Sub code-059 ,106,422,423				
c	If under Planned Scheme, Central and State Share	Centrally Sponsored(60:40)				
d	Programme, Project and Purpose of the Scheme.	<ul style="list-style-type: none"> <li>• To increase farm power availability from 2.11kW/ha to 2.5 kW/ha in State.</li> <li>• Reducing the cost of cultivation</li> <li>• Helps in timely operation of agricultural operation.</li> <li>• Increase the production and productivity.</li> <li>• To maintain the financial competitiveness and sustainability in agriculture sector.</li> <li>• Employment generation in agriculture and allied sectors.</li> </ul>				
e	Programme's approximate beneficiaries ( to be measured during the year end)	84107 beneficiaries				
f	Financial(Rupees in Lakhs)	Financial target for 2018-19 is Rs. 17642.96 lakhs.				

g) Expenditure(Rs.in lakhs)

Actual/Accounts 2017-18		2018-19 (Upto March 2019)		Budget Estimate 2019-20
Release	Expenditure	Release	Expenditure	Expected Grants
10000.00	9838.01	17642.96	17536.05	6000.00

h) Physical Achievement (Unit: Hectares)

2017-18		2018-19 (Upto 31st March 2019)		Audit Observations
Tar	Ach	Tar	Ach	Just Mention whether Audit has completed for the year or not.
31495	52749	48911	84107	-

- i) Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention .

Not Applicable

**Name of the Scheme: National Mission for Sustainable Agriculture -Rainfed Area Development (NMSA-RAD) Programme:**

**1.Brief Note about the Scheme**

Central Government formulated National Mission for Sustainable Agriculture (NMSA) for enhancing agricultural productivity especially in rainfed areas during 2014-15. Under NMSA, Rainfed Area Development (RAD) Programme aims at promoting Integrated Farming System (IFS) with emphasis on multi-cropping, rotational cropping, inter-cropping, mixed-cropping practices with allied activities like horticulture, livestock, fishery, agro-forestry, apiculture etc. to enable farmers not only in maximizing the farm returns for sustaining livelihood, but also to mitigate the impacts of drought, flood or other extreme weather events.

NMSA-RAD scheme is being implemented in the state since 2014-15. Watershed Development Department is overseeing implementation of the scheme. During 2018-19, Rs. 1668.00 lakh Action Plan was approved by Government of India (Central: State 60:40 Funding Pattern) and the scheme was implemented in 18 districts viz Bagalkot, Bangalore, Belagavi, Bellary, Vijayapura, Chamarajanagara, Chikkaballapura, Chitrdurga, Davangere, Gadag, Kalburgi, Kolar, Koppal, Mandya, Mysore, Raichur, Ramanagar and Tumkur Rs. 923.32 lakh was released as 1<sup>st</sup> instalment (Rs 553.99 GOI share and Rs 369.33 lakh as GOK share). In addition Rs 133.466 lakhs was released as revalidation (2014-15 to 2017-18 as revalidation) amount. Totally Rs 1056.786 lakhs was released during 2018-19 out of which Rs 941.802 lakhs was utilized.

**2. Head of Account: 2401-00-108-1-16****3. Centrally Sponsored / State Sponsored Scheme and the Assistance Ratio**

Centrally Sponsored (60:40)

**4. Mission Strategy**

Promoting integrated farming system covering Agricultural, Horticultural crops and live stock and fishery, plantation and pasture based composite farming for enhancing livelihood opportunities, ensuring food security and minimising risks from crop failure through supplementary / residual production system. Popularizing resource conservation technologies (Both on farm and off farm) and introducing practices that will support mitigation efforts in times of extreme climate events or disasters like prolonged dry spells, floods etc.

**5. Scheme Estimated Result:****Financial Progress**

Expenditure for 2017-18		Expenditure for 2018-19		Budget Estimation
Releases	Expenditure	Releases	Expenditure	Budget Target
1215.50	1145.74	1056.786	941.80	1667.00

**Physical Progress (In Hacter)**

2017-18		2018-19		The Scheme is being implemented by the water shed development department, hence audit will be taken from same department.
Target	Achievement	Target	Achievement	
9208	9047	6170	3554	

**6. Physical -Financial Target and Achievement for 2018-19**

Physical Progress		Financial Progress Rs in Lakhs	
Target	Achievement	Release	Expenditure
6170	3554	1056.786	941.80

a	Name of the scheme and year of Introduction	Sub-Mission of seeds and planting Materials 2014-15
b	Budget Head	2401-00-800-1-53(059)
c	Central & State share under the scheme	Central Sponsored Scheme (60:40)

d	Objective of the Programme	The objective of the programme are 1. Increasing production of Certified/ quality seeds 2.upgrading the quality of farm saved seeds 3.Promoting new technologies in seed production, processing and testing. 4. Strengthening and modernizing infrastructure for seed production , storage, certification and quality control
e)	Estimated benefit	Grants are released to Government agencies such as KSSC, KOF, KSSOCA and NSC, UAS Bangalore/ Shimoga/ Dharwad and Raichur and department seed Testing Laboratories
f)	Financial: (Rs. in Lakhs)	Financial Target for 2019-20 is Rs. 500.00 lakhs (Both GOI is Rs.300.00 lakhs and GOK is Rs.200.00 Lakhs)

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2018-19						2019-20 Budget		
Grants released			Expenditure			Grants Allocation		
GOI	GOK	Total	GOI	GOK	Total	GOI	GOK	Total
1378.77	1202.47	2581.24	1378.77	1202.47	2581.24	300.00	200.00	500.00

- i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation:

-Not Applicable –

a)	Name of the scheme and year of Introduction	Rastriya Krishi Vikasa Yojane 2007-08
b)	Budget Head	2401-00-800-1-57
c)	Central & State share under the scheme	60:40
d)	Objective of the Programme	2.1 RKVY-RAFTAAR aims at making farming a remunerative economic activity through strengthening the farmers' effort, risk mitigation and promoting agri-business entrepreneurship.

		<p>2.2 The main objectives of the scheme are-</p> <ul style="list-style-type: none"> <li>(i) 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.</li> <li>(ii) To provide autonomy, flexibility to States to plan and execute schemes as per local/farmers' needs.</li> <li>(iii) To promote value chain addition linked production models that will help farmers increase their income as well as encourage production/productivity</li> <li>(iv) To mitigate risk of farmers with focus on additional income generation activities - like integrated farming, mushroom cultivation, bee keeping, aromatic plant cultivation, floriculture etc.</li> <li>(v) To attend national priorities through several sub-schemes.</li> <li>(vi) To empower youth through skill development, innovation and agri-entrepreneurship based agribusiness models that attract them to agriculture.</li> </ul>
e)	Estimated benefit & number of estimated beneficiaries	23164
f)	Financial: (Rs. in Lakhs)	Rs. 25705.00lakhs

g) Expenditure: (Rs. in Lakhs)

Actual/Accounts 2017-18		Revised Estimate 2018-19		Budget Estimate 2019-20
Grants	Exp	Grants	Exp	
37851.00	34047.00	25105.00	24145.00	19800.00

h) Physical Achievements (Units: in Nos)

2017-18		2018-19		Audit observations
Tar	Ach	Tar	Ach	
88 Projects	88	49 Projects	49	-

i) Brief analysis of the performance trends and implementation constraints, reasons for shortfall in delivering the benefit / reaching out to the beneficiaries and delay in implementation: No

a)	Name of Scheme and Year of Commencement	Farm Mechanization- Karnataka Farm Mechanization Mission (R.K.V.Y.) implemented in the State from 2008-09				
b)	Budget Head of Account	Head of Account : 2401-00-800-1-57. Sub head of account: 059, 133, 422, 423				
c)	If under Planned Scheme, Central and State Share	Centrally sponsored(60:40) As per SMAM Guidelines centrally sponsored schemes grants is matched with the State sector grants.				
d)	Programme, Project and Purpose of the Scheme.	<ul style="list-style-type: none"> <li>• Reducing the cost of cultivation</li> <li>• Helps in timely operation of agricultural poeration.</li> <li>• Increase the production and productivity.</li> <li>• To maintain the financial competativeness and sustainability in agriculture sector.</li> <li>• Employment generation in agriculture and allied sectors.</li> </ul>				
e)	Programme's approximate beneficiaries (to be measured during the year end)	2351 Beneficiaries				
f)	Financial(Rupees in Lakhs)	Financial target for 2018-19 is Rs.255.00 lakhs.				
g)	Expenditure(Rupees in Lakhs)	Actual/Accounts 2017-18		2018-19 (Upto March 2019)		Budget Estimate 2019-20
		Release	Expend	Release	Expen	Expected Grants
		932.00	838.80	255.00	254.09	-
h)	Physical Achievement(Unit_____)	2017-18		2018-19 (Upto March 19)		Audit Observations
		Tar	Ach	Tar	Ach	Just Mention whether Audit has completed for the year or not.
		1863	2545	2351	2351	-

i)	Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable	Not Applicable
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a)	Name of Scheme and Year of Commencement	Krishi Yantra Dhare (Establishment of Farm Machinery Custom Hire service Centres) Implemented in the State from 2014-15			
b)	Budget Head of Account	2401-00-800-1-57 (106)			
c)	If under Planned scheme, Central and State share	Centrally Sponsored (60:40)			
d)	Programme, Project and Purpose of the Scheme.	The project proposes to provide Farm Machineries to Small and Marginal farmers at nominal hiring charges in all the districts of the State.			
e)	Programme's approximate beneficiaries (to be measured during the year end)	Till date around 11.10 lakh farmers have been benefitted from this programme.			
f)	Financial (Rupees in Lakhs)	Financial target for 2018-19 is Rs.2047.00 lakhs.			
g)	Expenditure (Rupees in Lakhs)	<b>Actual/Accounts 2017-18</b>		<b>2018-19(Upto March 2019)</b>	<b>Budget Estimate 2019-20</b>
		<b>Release</b>	<b>Expen diture</b>	<b>Release (State)</b>	<b>Ex pen diture</b>
		4321.20	4321.20	2122.00	2117.67
					1600
h)	Physical Achievement:(Unit- in numbers)	<b>2017-18</b>		<b>2018-19(Upto March 2019)</b>	<b>Audit Observations</b>
		Tar	Ach	Tar	Ach
		250	95	125	125
		*-Remaining amount will be borne under Farm mechanization scheme.			

i)	Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable	Not Applicable
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**During 2018-19 the amount provided was Rs.373725.00 lakhs which includes State Sector /ZP/TP/Central Sponsored Schemes. The original budget was enhanced by way of reappropriation/additionality to Rs.389448.80 lakhs. The Department has incurred expenditure of Rs.361091.44 lakhs.**

Sl. No	Head of Account and Name of Schemes	Annual Budget	RE	1+2+3+4 qtr grants release	Expenditure as on 31.03.2019	%
<b>STATE SECTOR</b>						
1	2401-00-001-1-01 Commissionerate of Agriculture	5507.00	5950.76	6373.55	6315.05	99.08
2	2401-00-001-1-75 Unspent SCP/TSP as per SCP TSP Act 2013	208.00	208.00	208.00	207.35	99.82
3	2401-00-102-0-27 Krishi Bhagya	50000.00	45831.00	45830.50	45740.84	99.80
4	2401-00-102-0-28 Other Agricultural Schemes	10000.00	10254.00	9877.64	9677.01	97.97
5	2401-00-103-0-01 Seed Farms	426.00	426.00	433.67	429.64	99.07
6	2401-00-103-0-15 Agricultural Inputs and Quality Control	61530.00	57652.00	56415.23	55994.50	99.25
7	2401-00-104-0-10 Agricultural Farms and Development Centres	140.00	140.00	149.44	147.62	98.78
8	2401-00-104-0-12 Organic Farming and Millets Programme	10000.00	5714.10	5649.97	5633.51	99.71

<b>Sl. No</b>	<b>Head of Account and Name of Schemes</b>	<b>Annual Budget</b>	<b>RE</b>	<b>1+2+3+4 qtr grants release</b>	<b>Expenditure as on 31.03.2019</b>	<b>%</b>
9	2401-00-109-0-21 Agricultural Extension and Training	7264.00	7084.00	7395.37	7311.24	98.86
10	2401-00-109-0-80 Project for Agricultural Training of Farm women	383.00	383.00	435.21	432.16	99.30
11	2401-00-110-0-07 New Crop Insurance Scheme	84511.00	88862.96	88862.96	88848.22	99.98
12	2401-00-800-1-70 Vacant Post Provision	464.00	464.00			
13	2401-00-800-1-71 Additional Provision for salary - Pay Commission	3714.00	3713.14	3127.25		
14	2402-00-101-0-01 Soil Survey Organisation	35.00	35.00	26.01	25.94	99.73
15	4401-00-001-1-01 Agricultural Infrastructure	632.00	632.00	632.00	632.00	100.00
16	4401-00-108-0-04 Karnataka Antharaganga Micro Irrigation Corporation	200.00	200.00	100.00		
17	4401-00-108-0-01 Development Agricultural Technical Clusters in 4 Districts	15000.00	15000.00	0.00		
18	4401-00-113-0-01 Agricultural Engineering	1300.00	1300.00	650.00		
	<b>A</b>	<b>251314.00</b>	<b>243849.96</b>	<b>226166.80</b>	<b>221395.35</b>	<b>97.89</b>
	<b>DISTRICT SECTOR</b>					
19	2401-00-196-1-01 Assistance to ZP	9292.00	9292.00	9292.00	9260.79	99.66
20	2401-00-197-1-01 Assistance to TP	13346.00	13346.00	13346.00	13341.38	99.97
	<b>B</b>	<b>22638.00</b>	<b>22638.00</b>	<b>22638.00</b>	<b>22602.17</b>	<b>99.84</b>

<b>Sl. No</b>	<b>Head of Account and Name of Schemes</b>	<b>Annual Budget</b>	<b>RE</b>	<b>1+2+3+4 qtr grants release</b>	<b>Expenditure as on 31.03.2019</b>	<b>%</b>
	<b>STATE SECTOR</b>					
21	2401-00-102-0-08 National Food Security Mission	16790.00	17590.00	17441.72	17064.01	97.83
22	2401-00-108-1-15 NMSA-Chief Minister`s Sookshma Neeravari Yojane	34617.00	44735.30	44735.30	44036.77	98.55
23	2401-00-108-1-16 NMSA-Natioinal Mission on Submission of Agriculture	6065.00	5570.26	5392.22	4916.39	91.18
24	2401-00-114-0-01 NMOOP	1374.00	1374.00	1374.00	1367.38	99.52
25	2401-00-800-1-53 National Mission on Agriculture Extension and Training	8530.00	25649.49	25639.51	25564.85	99.71
26	2401-00-800-1-57 Rashtriya Krushi Vikasa Yojane	32167.00	28040.93	25024.53	24144.52	96.48
27	2401-00-800-1-69 e- Governance (NeGP)	230.00		0.00		
	<b>C</b>	<b>99773.00</b>	<b>122959.98</b>	<b>119557.28</b>	<b>117093.92</b>	<b>97.94</b>
	<b>TOTAL=A+B+C</b>	<b>373725.00</b>	<b>389447.94</b>	<b>368362.08</b>	<b>361091.44</b>	<b>98.03</b>

### **Chapter -3**

There are no public institutions/associations/special purpose vehicles related to the  
Department of Agriculture

### **Chapter -4**

- Part -1 : Existing legislation /new legislations 2018-19
- Part -2: Committees /commissions
- Part-3: Reports/publication

## **Part -1 : Existing legislation /new legislations 2018-19**

### **a)Implementation of Seed Law Enforcement:**

In order to monitor supply of quality seeds to the farming community, State Government is implementing the Seeds Act 1966, Seeds Rules 1968 and Seeds (Control) Order 1983 enacted by the Central Government. To implement these Laws, Govt. of Karnataka have Notified Seed Inspectors. Seed Inspectors draw seed samples from the sale points and send them to the Departments Notified Seed Testing Laboratories for analysis. On analysis, if the samples were found to be of sub-standard (i.e. less germination percentage), action will be initiated against the erring Seed dealer and the Producer.

During the year 2018-19 as against the annual target of 38,000 seed samples, comprising 11000 samples under Seed Act and 27000 samples under Service category, as on March 2019 totally 38000 seed samples, comprising 8950 samples under Seed Act category and 15846 samples under service category totally 24796 seed samples have been drawn by the Seed Inspectors and subjected to analysis in the Laboratories. Out of these samples 2501 service samples and 69 Seed Act category, totally 2570 samples were found to be sub-standard. Action is being taken as per Seed Legislations. During 2019-20, it is targeted to collect 38,000 seed samples.

#### **a) Progress under Seed Testing:**

There are Four Seed Testing Laboratories functioning under the control of Department of Agriculture. They are located at Bangalore (Hebbal), Dharwad, Davanagere and Gangavathi.

During 2018-19 as on March 2019, 24554 seed samples have been analysed (including charged samples). Laboratory wise progress achieved is as follows

<b>Sl.No</b>	<b>STL labs</b>	<b>Targets</b>	<b>Samples received</b>	<b>Achievement</b>
1	Hebbal	12260	8305	8175
2	Dharwad	9655	5575	5575
3	Davanagere	9010	8182	8115
4	Gangavati	7075	2734	2689
	<b>Total</b>	<b>38000</b>	<b>24796</b>	<b>24554</b>

## **Part -2: Committees /commissions**

Constitution of Committees with their Terms and References.

As per the Operational Guidelines of NFSM (12<sup>th</sup> Five Year Plan), Govt. of India, the State Government, vide Government Order No. AGD/122/AMS/2014, Bangalore, Dated:

09.09.2014, has reconstituted the State and district level Food Security Mission Executive committees as below:

**State Level Committee - National Food Security Mission (NFSM):**

1	Chief Secretary	Chairman
2	Additional Chief Secretary & Development Commissioner,	Member
3	Additional Chief Secretary (RD & PR)	Member
4	Additional Chief Secretary (Energy)	Member
5	Principal Secretary (Agriculture)	Member
6	Principal Secretary (Irrigation)	Member
7	Secretary (Social Welfare Department)	Member
8	Vice Chancellor(s) of SAUs	Member
9	Commissioner, Agriculture	Member
10	Director/Project Director of ICAR Institutes	Member
11	DGM, NABARD	Member
12	SLBC, Convener	Member
13	State Mission Director	Member Secretary

**District Committee-NFSM:**

1	Chief Executive Officer, Zilla Panchayat	Chairman
2	Deputy Director (Horticulture)	Member
3	Representative from lead Bank & NABARD	Member
4	Representative from Universities & KVK	Member
5	Representative from Progressive Farmer	Member
6	Representative from NGO	Member
7	Representative from SHG	Member
8	Project Director, ATMA	Member
9	District Joint Director of Agriculture	Member Secretary

The terms and references of the Committee are as follows:

1. To scrutinise the DPRs/Concept notes submitted by the implementing Departments/Institutions for funding under different Schemes.
2. To convene monthly meetings of the committee to review the physical and financial progress of various projects/schemes

3. To monitor the implementation of the projects by the various departments/institutions in accordance with the approved DPRs/concept notes through frequent visits
4. To take up concurrent evaluation of the projects approved under different schemes
5. To give administrative approval for the scheme and take necessary action towards release of State share proportionate to the Central share
6. To provide necessary guidance regarding application/adoption of new technologies
7. To co-ordinate with line departments in implementation of the programme/project.

#### **State level committee of Krushi Prashasti and Krushi Panditha Prashasti**

To decide winners of state level Krushi Prashasti and Krushi Panditha Prashasti, a committee under the chairmanship of Principal secretary to Government, Agriculture, is constituted. The constitution and responsibilities is as follows

1	Principal Secretary to Government, Agriculture	Chairman
2	Commissioner for Agriculture	Member
3	Director of Agriculture	Member
4	Director of Extension, U.A.S. Dharwad	Member
5	Director of Extension, U.A.S. Bengaluru	Member
6	Director of Extension, U.A.S. Raichur	Member
7	Director of Extension, U.H.S. Bagalkote	Member
8	Director of Extension, U.A.H.S. Shivamogga	Member
9	Director of Research, U.A.S. Dharwad	Member
10	Director of Research, U.A.S. Bengaluru	Member
11	Director of Research, U.A.S. Raichur	Member
12	Director of Research, U.H.S. Bagalkote	Member
13	Director of Research, U.A.H.S. Shivamogga	Member
14	Director, Economics and Statistics Department	Member
15	Working president, KPKS, Bengaluru	Member
16	Additional Director of Agriculture (HRD) Head office, Bengaluru	Member

- To guide on effective implementation of Krushi panidt and krushi prasasti scheme.
- To select State level Krushi panidt and krushi prasasti winners.

- To organize state level Krushi panidt and krushi prasasti award function and to felicitate winners .
- To examine and decide on the issues raised on declaration of State level Krushi panidt and krushi prasasti winners.
- To examine and bring necessary changes in the guidelines for lacunas found in the implementation of the scheme.

### **Part-3: Reports/publication**

<b>Sl.No</b>	<b>Name of the Scheme</b>	<b>Head of A/c</b>	<b>Extension literatures brought out during the year 2018-19</b>
1	Agricultural Extention and training	2401-00-109-0-21 sub head:059	<ul style="list-style-type: none"> <li>• Departmental scheme guidelines book for the year 2018-19</li> <li>• Flip chart containing departmental scheme details for 2018</li> <li>• A small booklet containg benefits available to farmers under various schemes for the year 2018-19</li> </ul>

### **Chapter -5**

- A. Staff Vacancy position
- B. Retirements during the year 2018-19
- C. Staff out sourcing
- D. Training programmes

#### **A. STAFF POSITION OF THE DEPARTMENT OF AGRICULTURE AS ON 31.03.2019**

<b>Sl. No</b>	<b>Name of the post</b>	<b>Sanc tioned</b>	<b>Filled</b>	<b>Vacant</b>	<b>Male</b>	<b>Female</b>	<b>SC</b>	<b>ST</b>
	Group – A							
1	Commissioner	2	1	1	1	0	0	0
2	Director of Agriculture	3	3	0	2	1	1	2
3	Addl. Director of Agriculture	8	4	4	4	0	2	0
4	Joint Director (Admn)	1	1	0	1	0	0	0
5	Joint Director of Agriculture	51	47	4	32	15	7	2

<b>Sl. No</b>	<b>Name of the post</b>	<b>Sanc tioned</b>	<b>Filled</b>	<b>Vacant</b>	<b>Male</b>	<b>Female</b>	<b>SC</b>	<b>ST</b>
6	Deputy Director of Agriculture	85	73	12	51	22	6	2
7	Chief Accounts Officer	1	1	0	1	0	0	0
8	Law Officer	1	1	0	1	0	0	0
9	Executive Engineer	1	0	1	0	0	0	0
10	Asst. Director of Agriculture	385	132	253	99	33	27	7
11	Deputy Director(Statistic)	1	1	0	0	1	0	0
12	Asst.Director of Agriculture(FW)	46	34	12	0	34	7	1
13	Admin. Officer	25	4	21	3	1	0	0
14	Asst. Executive Engineer	2	1	1	1	0	0	0
<b>TOTAL - A</b>		<b>612</b>	<b>303</b>	<b>309</b>	<b>196</b>	<b>107</b>	<b>50</b>	<b>14</b>
<b>Group – B</b>								
15	Agri. Officer/Agri. Officer (FW)	1589	1170	419	727	443	199	41
16	Asst. Director of Statistician	1	0	1	0	0	0	0
17	Chief Artist -cum - Audio Visual Specialist	1	0	1	0	0	0	0
18	Admin. Assistant	41	34	7	27	7	6	2
19	Asst. Agri. Officer/ Asst.Agro.Officer (Agri.Engg & Water Management)/(FW)	2370	1147	1223	1068	79	174	82
20	Asst. Engineer (Civil)	2	0	2	0	0	0	0
<b>TOTAL - B</b>		<b>4004</b>	<b>2351</b>	<b>1653</b>	<b>1822</b>	<b>529</b>	<b>379</b>	<b>125</b>
<b>Group - C</b>								
21	Superintendent	364	313	51	214	99	44	12
22	Librarian	1	1	0	1	0	0	0
23	Mechanical Foreman	2	2	0	2	0	0	0

<b>Sl. No</b>	<b>Name of the post</b>	<b>Sanc tioned</b>	<b>Filled</b>	<b>Vacant</b>	<b>Male</b>	<b>Female</b>	<b>SC</b>	<b>ST</b>
24	Statistical Inspector	2	0	2	0	0	0	0
25	First Division Assistant	563	326	237	245	81	63	10
26	Draughtsman	1	1	0	1	0	0	0
27	Agriculture Impliment Supervisor	15	15	0	14	1	0	0
28	Stenographer	47	15	32	3	12	1	1
29	Sr. Typist/Typist	367	102	265	74	28	16	1
30	Sr. Driver/Driver	352	77	275	77	0	12	3
31	Sr.Artrist/Artist	1	1	0	1	0	0	0
32	Project Operator	1	1	0	1	0	0	0
33	Tracer	50	50	0	46	4	0	0
34	Agri. Assistant	45	45	0	45	0	21	2
35	Second Division Assistant	630	428	202	281	147	79	19
36	Library Assistant	1	0	1	0	0	0	0
37	Lab. Assistant	65	29	36	24	5	6	0
38	Compositor	3	3	0	3	0	0	0
39	Printer	3	3	0	3	0	0	0
40	Binder	1	1	0	1	0	0	0
41	Carpenter cum smith	1	0	1	0	0	0	0
<b>TOTAL - C</b>		<b>2515</b>	<b>1413</b>	<b>1102</b>	<b>1036</b>	<b>377</b>	<b>242</b>	<b>48</b>
	<b>Group - D</b>							
42	Attender	111	51	60	39	12	11	7
43	Cooks	23	12	11	05	06	06	01
44	Group – D	920	470	450	258	213	98	32
	<b>TOTAL - D</b>	<b>1054</b>	<b>533</b>	<b>521</b>	<b>302</b>	<b>231</b>	<b>115</b>	<b>40</b>

## ABSTRACT

<b>Sl. No</b>	<b>Group</b>	<b>Sanc- tion ed</b>	<b>Filled up</b>	<b>Vacant</b>	<b>Male</b>	<b>Female</b>	<b>SC</b>	<b>ST</b>
1	A	612	303	309	196	107	50	14
2	B	4004	2351	1653	1822	529	379	125
3	C	2515	1413	1102	1036	377	242	48
4	D	1054	533	521	302	231	115	40
	<b>GRAND TOTAL</b>	<b>8185</b>	<b>4600</b>	<b>3585</b>	<b>3356</b>	<b>1244</b>	<b>786</b>	<b>227</b>

### B.Retirement details of the Officers/Staff for the year 2018-19

<b>Sl.No.</b>	<b>Designation</b>	<b>No.of Retired Officers/Staff between 2018-19</b>
1.	Additional Director of Agriculture	3
2.	Joint Director of Agriculture	4
3.	Deputy Director of Agriculture	12
4.	Assistant Director of Agriculture	34
5.	Assistant Director of Agriculture(FW)	3
6.	Agricultural Officers	10
7.	Administrative Officers	4
8.	Administrative Assistants	8
9.	Asst. Agricultural Officers	83
10.	Superintendent	31
11.	First Division Assistant	13
12.	Second Division Assistant	27
13.	Typists	2
14.	Drafts men	6
15.	Lab Assistants	1
16.	Agriculrure Implements Supervisior	1
17.	Compositer	1
18.	Printer	1
19.	Binder	1
20.	Group-D Staff	19
21.	Lab Attanders	3
	<b>Total</b>	<b>267</b>

### C. Staff appointment through outsourcing during the year 2018-19

Sl.No.	Designation	No.of Staffs
1.	Data Entry operators	173
2.	Vehicle Driver	126
3.	Group-D	346
	<b>Total</b>	<b>645</b>

### D.Training Programme Details – 2018-19

Human Resource Development is an essential and integral part of any institutional system. There has been knowledge explosion in every discipline & agriculture is not an exception to this. Agriculture Officers play an important & multiple role in extending technological benefits to the farmers. Officers are also in need of refresher trainings to learn recent developments in the field of agricultural Research, development and Extension(Lab to land) that helps them in delivering latest know how & skills to the farmers in a more effective way. Hence, Karnataka State Department of Agriculture is keen on providing different trainings to the officers in reputed institutions like ATI, ANSSIRD, Mysore, Fiscal Policy Institute, Bangalore, training programmes on e-Governance organized by Department of Personnel and Administrative Reforms (DPAR), Universities of Agricultural Sciences within the state and outside the state being EEI, MANAGE, NIRD, NIPHM of Hyderabad etc.

#### Output:

- Trained officers have updated knowledge, skills, and techniques in agriculture.
- The knowledge acquired in the different trainings is being utilized effectively and tackle the problems easily at field level
- The trained extension personnel serve as resource persons in the different programmes organized at district level/ taluk level/ range level and DATC's.

#### Training Programs attended by the Officers is as mentioned below.

Sl. No	Details	Numbers	Remarks,
1	Officers Attended Training Program within & outside the state	152	
2	Officers Attended Training Program outside the country **	2	Details mentioned
<b>Total</b>		<b>154</b>	

\*\*Dr.Chetana R Patil, JDA Raichur District attended Training Program on Advances in Rice Production for women Farmers at International Rice Research Institute, Loes Banos, Laguna , Philippines from 24<sup>th</sup> to 28<sup>th</sup> Sept 2018 Sri. Antony Maria Emmanuel attended Training Program on Public Policy and Governance at ISEC, Bangalore & Seoul South Korea from 07<sup>th</sup> Jan to 02<sup>nd</sup> Feb 2019.

## **Chapter -6**

- A. Audit observation
- B. Litigations
- C. Right to information act
- D. Agriculture production programme

### **A. Audit observation**

During the year 2018-19 the offices which were audited from the Directorate of Agriculture as detailed below:

<b>Sl. No.</b>	<b>Name of the Offices</b>	<b>Year of audit</b>	<b>Date of audit</b>	<b>Remarks</b>
1.	Assistant Director of Agriculture, changiri	2017-18	23.05.2018 To 25.05.2018	The parawise replies with documents have been obtained from subordinate offices which were inspected from the Directorate of Agriculture. The correct replies will be accepeted and the remaining paras will be continued for further proper replies.
2.	Assistant Director of Agriculture honnali	2015-16 To 2017-18	29.05.2018 To 31.05.2018	-do-
3.	Assistant Director of Agriculture Kalghatki dharwad district	2016-17 To 2017-18	29.05.2018 To 31.05.2018	---do---
4.	Joint Director of Agriculture Bagalkot	2016-17 To 2017-18	20.06.2018 To 22.06.2018	---do---
5.	Assistant Director of Agriculture shimoga	2017-18	20.06.2018 To 22.06.2018	-do-
6.	Joint Director of Agriculture Dharwad	2016-17 To 2017-18	28.06.2018 To 30.06.2018	-do-
7.	Assistant Director of Agriculture	2016-17 To 2017-18	26.06.2018 To	-do-

<b>Sl. No.</b>	<b>Name of the Offices</b>	<b>Year of audit</b>	<b>Date of audit</b>	<b>Remarks</b>
	H.D.kote Mysore District		29.06.2018	
8.	Assistant Director of Agriculture Raichur	2016-17 To 2017-18	21.06.2018 To 23.06.2018	-do-
9.	Assistant Director of Agriculture Beelagi Bagalkot	2016-17 To 2017-18	10.07.2018 To 13.07.2018	-do-
10.	Joint Director of Agriculture Koppala	2016-17 To 2017-18	10.07.2018 To 13.07.2018	-do-
11.	Assistant Director of Agriculture Sidhagi Vijayapura District	2016-17 To 2017-18	18.07.2018 To 20.07.2018	-do-
12.	Assistant Director of Agriculture Vijayapura	2016-17 To 2017-18	18.07.2018 To 20.07.2018	-do-
13.	Assistant Director of Agriculture Challakere	2016-17 To 2017-18	23.07.2018 To 26.07.2018	---do---
14.	Assistant Director of Agriculture Hagaribommanahalli Ballari District	2016-17 To 2017-18	25.07.2018 To 28.07.2018	---do---
15.	Assistant Director of Agriculture Yelburga Koppala District	2016-17 To 2017-18	01.08.2018 To 04.08.2018	---do---
16.	Assistant Director of Agriculture Surapura Yadagiri District	2016-17 To 2017-18	07.08.2018 To 10.08.2018	-do-
17.	Assistant Director of Agriculture Kolar	2016-17 To 2017-18	28.08.2018 To 31.08.2018	---do---

<b>Sl. No.</b>	<b>Name of the Offices</b>	<b>Year of audit</b>	<b>Date of audit</b>	<b>Remarks</b>
18	Assistant Director of Agriculture Jamkhandi Bagalkot District	2016-17 To 2017-18	17.09.2018 To 20.08.2018	-do-
19.	Assistant Director of Agriculture Saundatti Belgaum District	2016-17 To 2017-18	17.09.2018 To 20.09.2018	-do-
20.	Assistant Director of Agriculture District Agriculture Training Center Bagalkot	2017-18	17.08.2018 To 20.08.2018	---do---
21	Assistant Director of Agriculture Shahapur Yadagiri District	2017-18	24.09.2018 To 27.09.2018	-do-
22.	Assistant Director of Agriculture Harapanahalli Davangere District	2017-18	03.10.2018 To 06.10.2018	-do-
23	Joint Director of Agriculture Davangere	2017-18	25.10.2018 To 28.10.2018	-do-
24.	Assistant Director of Agriculture Hunsur Mysore	2016-17 To 2017-18	14.11.2018 To 17.11.2018	---do---
25.	Assistant Director of Agriculture Alanda Kalburgi District	2017-18	22.11.2018 To 24.11.2018	---do---
26.	Assistant Director of Agriculture Hirekerur Haveri District	2017-18	28.11.2018 To 30.11.2018	-do-
27	Assistant Director of Agriculture Bidar	2017-18	04.12.2018 To 06.12.2018	-do-

<b>Sl. No.</b>	<b>Name of the Offices</b>	<b>Year of audit</b>	<b>Date of audit</b>	<b>Remarks</b>
28.	Assistant Director of Agriculture Chamarajanagar	2017-18	26.12.2018 To 28.12.2018	---do---
29.	Assistant Director of Agriculture Kalburgi	2016-17 To 2017-18	19.12.2018 To 21.12.2018	-do-
30.	Assistant Director of Agriculture Shikaripura	2017-18	26.12.2018 To 28.12.2018	-do-
31.	Assistant Director of Agriculture Piriyapatna	2016-17 To 2017-18	08.01.2019 To 11.01.2019	-do-
32.	Assistant Director of Agriculture Basavana bagevadi Bagalkot District	2016-17 To 2017-18	08.01.2019 To 11.01.2019	Special Audit
33.	Assistant Director of Agriculture Gubbi Tumakur District	2017-18	13.02.2019 To 16.02.2019	The parawise replies with documents have been obtained from subordinate offices which were inspected from the Directorate of Agriculture. The correct replies will be accepted and the remaining paras will be continued for further proper replies.

#### A. Audit observation

During the year 2018-19 the offices which were audited from the Directorate and Memo-Reading details as below.

<b>Sl. No.</b>	<b>Name of the Office</b>	<b>Memo-Reading details and year</b>	<b>Date of Memo- Reading</b>	<b>Remarks</b>
1.	Assistant Director of Agriculture Bidar	2016-17	06.12.2018	At the time of Memo-reading parawise remarks have been obtained along with the documents for the outstanding paras which were noticed at the time of audit. The Proper reply

<b>Sl. No.</b>	<b>Name of the Office</b>	<b>Memo-Reading details and year</b>	<b>Date of Memo- Reading</b>	<b>Remarks</b>
				furnished for the paras will be dropped and the remaining paras will be continued for further reply.
2.	Assistant Director of Agriculture Kalburgi	2016-17	21.12.2018	- do -
3.	Assistant Director of Agriculture Devanahalli	2016-17	04.02.2019	- do -
4.	Assistant Director of Agriculture Chickballapura	2016-17	08.02.2019	- do -
5	Assistant Director of Agriculture Channagiri	2015-16 To 2017-18	15.02.2019	- do -
6	Assistant Director of Agriculture honnali	2014-15 To 2017-18	21.02.2019	- do -
7.	Assistant Director of Agriculture Shimoga	2015-16 To 2016-17	26.02.2019	- do -

## B.Litigations

### B-(1) Details of court cases pertaining to Seed section

<b>Year</b>	<b>Case No.</b>	<b>Between Parties</b>	<b>Details of the case</b>	<b>Status of the case</b>
2009-10	State Consumer Forum, Appeal no. 57/2011	KSSC Vs ADA,Alanda, Gulburga Dist. Shri Mahadevappa S/o Erappa Maheyala and Others	Non-emergence of Flower and Pod in Urd Crop	Under hearing.

<b>Year</b>	<b>Case No.</b>	<b>Between Parties</b>	<b>Details of the case</b>	<b>Status of the case</b>
2011-12	Consumer Forum, Chitradurga Complaint no. 03&04/2012	KSSC Vs ADA, Holalkere, Shri. Shivakumaraiak S/o Kenchabasaiah and Others	Paddy BPT S204 Compensation for the crop loss incurred from KSSC	Appelate hearing.
2012-13	Bangalore Urban District Consumer Forum Complaint no. 1334/2012	Sri. H.K. Raveendra, Kanakapura Talluk/ Director of Agriculture.	Compensation for the crop loss incurred in case of Maize Var. Nithyashree seeds purchased from University of Agricultural Sciences, Bangalore During Kharif 2010.	Under hearing.
2013-14	WP No. 1248/2013(GM-Res) Bangalore	Sri. Shankar Guru and Others/ Union of India and Others.	Payment of subsidy on the seed cost certification charges on the agricultural produce grown and supplied to the Karnataka State Seeds Corporation.	Under hearing.
2017-18	WP No. 31329-38/ 2017	Dept. of Agriculture Vs Private seed suppliers	MOU with government under taking seed supplier agency	Under hearing.

## **CHAPTER-6**

1.	Matters related to the Court of Law-2013  The following Writ petitions have been filed before the Hon'ble High Court of Karnataka, Bengaluru.		
	<b>S.N.</b>	<b>Name of the Petitioner</b>	<b>Case No.</b>
	1.	Amsri Chemicals Limited	W.P. No. 44213-44215/2013 (GM-RES)
	2.	Bhuvi Crop Science	W.P. No. 46650//2013 (GM-RES)
	3.	Coromandel Agro Chemical Indus.	W.P. No. 46963/2013 (GM-RES)
	4.	Cropex Bio Chemicals	W.P. No. 50196/2013 (GM-RES)
	5.	Devi Crop Science (P) Ltd	W.P. No. 46308-311 & 46315-317/ 2013
	6.	Fertile Agro Chem Ltd.,	W.P. No. 50021/2013 (GM-RES)
	7.	Futura Agro Chemicals	W.P. No. 46736/2013 (GM-RES)

	8.	GIA Crop care	W.P. No. 45517-45517/2013 (GM-RES)	
	9.	Happy Lands Agro Inputs Pvt Ltd.,	W.P. No. 50022/2013 (GM-RES)	
	10.	Hindustan Agro Insecticides	W.P. No. 48737/2013 (GM-RES)	
	11.	Image Crop Sciences	W.P. No. 49241/2013 (GM-RES)	
	12.	Indus Valley Crop Technology	W.P. No. 57353/2013 (GM-RES)	
	13.	Karapur Agro Pvt. Ltd	W.P. No. 40407-40410/2013 (GM-RES)	
	14.	Kaveri Seed Company Ltd	W.P. No. 48771-48772/2013 (GM-RES)	
	15.	Lakshmi Agro Industries	W.P. No. 50020/2013 (GM-RES)	
	16.	MAA Bio Sciences & Technologies	W.P. No. 50154/2013 (GM-RES)	
	17.	Modern Agro and Chemical Indus.	W.P. No. 46962/2013 (GM-RES)	
	18.	Nakasa Crop Science Pvt Ltd.	W.P. No. 46739/2013 (GM-RES)	
	19.	Shrusti Agro Science	W.P. No. 103251/2013 (GM-RES)	
	20.	Sigma Agrocare Products Pvt. Ltd.	W.P. No. 46734/2013 (GM-RES)	
	21.	Srikar Biotech Pvt.Ltd	W.P. No. 46282/2013 (GM-RES)	
	22.	Sudarshan Agro And Bio Chemicals	W.P. No. 48740/2013 (GM-RES)	
	23.	Synergie Agri Sciences	W.P. No. 46973/2013 (GM-RES)	
	24.	Taamini Bio Care	W.P. No. 48768-48770/2013 (GM-RES)	
	25.	Vital Agri Solutions	W.P. No. 46649/2013 (GM-RES)	
	Sub: Sale of unregistered biopesticides and biofertilizers .			
	Writ Petitions submitted before the Hon'ble High Court of Karnataka, Bengaluru by the petitioners requesting the respondents not to interfere in marketing of bioproducts.			
	GOK-Agriculture Department by its Principle Secretary, Director of Agriculture and others as Respondents.			
	Para wise replies have been submitted to the Hon' ble Court on behalf of the respondents. Hon'ble High Court of Karnataka has ordered to connect all the above petitions. Hon'ble High Court of Karnataka has given Judgement			
2.	Writ Petition WP No: 51734/2013 (GM-RES) of M/s Microtech Agro India Ltd., Davanagere connected with WP No: 51735/2013 (GM-RES) of M/s Chaitra Fertilizers & Chemicals Pvprivate Ltd., Mysore submitted before the Hon'ble High Court of Karnataka, Bengaluru.			
	Sub: Extending Financial Assistance for the establishment of Bio-pesticide Laboratory under Macro Management of Agriculture-Work plan.			

	Writ Petitions submitted before the Hon'ble High Court of Karnataka, Bengaluru by the petitioners requesting to issue orders to the concerned to release second installment of grants.
	GOI and GOK-Agriculture Department by its Principle Secretary, Commissioner for Agriculture and Director of Agriculture as Respondents.
	Para wise replies have been submitted to the Hon' ble Court on behalf of the respondents 3 and 4. Case hearing is under progress.
	GA TO TAKE NOTICE. INTERIM STAY

### C. RIGHT TO INFORMATION ACT

Information on Questions received under RTI Act

During 2018-19 a total of 130 applications have been received. Previous year pending application 0(Zero), in all applications to be answered . None of the questions are rejected. A total of Rs. 6366/- has been collected as fees and deposited.

Sl. No.	Questions relating to	No.of application
1.	Previous year pending	0
2.	2018-19 (end of march 2019)	80
3.	Others	50
	<b>Total:</b>	<b>130</b>

### D. AGRICULTURE PRODUCTION PROGRAMME 2018-19

Anticipating timely and well distributed rainfall during pre-monsoon, southwest & northeast monsoon period in 2018-19 it was programmed to cover 74.69 lakh hectares, 31.80 lakh hectares and 5.41 lakh hectares during Kharif, Rabi and Summer seasons respectively under agricultural crops. Proposed production target of Cereals, Pulses and Oilseeds was 115.0 lakh tones, 20.0 lakh tones and 14.0 lakh tonnes, respectively. Production target of commercial crops like Cotton, Sugarcane and Tobacco was in the order of 16.43 lakh bales, 350 lakh tonnes and 0.94 lakh tonnes (0.78 lakh tonnes VFC and 0.16 lakh tonnes Beedi Tobacco) respectively.

#### I. KHARIF

##### Pre-monsoon Rainfall

Pre-monsoon rainfall (April-May) was 171 mm against normal rainfall 118 mm(+45%) in the State and it enhanced normal coverage of early kharif crops. Area coverage up to May end was 3.38 lakh hectares as against a normal of 3.42 lakh hectares.

##### Southwest monsoon

Southwest monsoon advanced over some parts of South Interior Karnataka on 8<sup>th</sup> June; by 10<sup>th</sup> June covered all parts of Coastal and South Interior Karnataka and by 19<sup>th</sup> June covered all parts of North Interior Karnataka.

During June major parts of the State received excess/normal rainfall. Actual average rain fall was 234 mm as against a normal of 195 mm.(+20%)

During July, major parts of South and North Interior Karnataka received low rainfall, Raichur, Koppal, Vijayapur, Yadgir, Chikkaballapur, Bagalkote, Chitradurga, Davanagere, Bellary, Ramanagar, Bidar, Kalaburgi, Bengaluru rural and urban, Haveri, Mandya, Tumkur, Kolar, Belagavi and Dharwad districts received low rainfall against normal rainfall. Actual average rain fall was 250 mm as against a normal of 280 mm deficit by 10%.

During actual average rain fall was 230 mm as against a normal of 206 mm (+12%).

During September monsoon was weak over major parts of the State, except Shivamogga, Kodagu, Hassan, Chikkamagaluru, Davanagere, Mandya, Dakshin kannada, Udupi, Uttar kannada, Belagavi, Raichur, Bellary Districts where excess rainfall affected the crops like Paddy, Redgram, Black gram, Jowar, Soybean, etc., in an area about 0.274 lakh ha. At the same time area affected by dry spell was 27.32 lakh ha. The actual rainfall was 89 mm as against a normal of 159 mm, deficit by 44%.

Cummulative rainfall from 1<sup>st</sup> June to 30<sup>th</sup> September was 804 mm as against a normal of 839 mm (-4%)

Month-wise normal/actual rainfall during pre-monsoon and southwest monsoon period, its' pattern and distribution over taluks was as follows:

Sl. No.	Month	Classification of Taluks in Different Category					Rainfall (mm)		
		Excess	Normal	Deficit	Scanty	No Rain	Normal	Actual	Pattern
1	April	49	69	51	7	0	35	34	Deficit
2	May	125	35	15	1	0	83	137	Excess
<b>Pre -monsoon</b>							<b>118</b>	<b>81</b>	<b>Deficit</b>
3	June	72	78	26	0	0	195	234	Excess
4	July	15	42	90	29	0	280	250	Deficit
5	Aug.	42	48	74	12	0	206	230	Excess
6	Sept.	13	48	60	55	0	159	89	Scanty
	<b>SW Monsoon</b>	<b>22</b>	<b>69</b>	<b>85</b>	<b>0</b>	<b>0</b>	<b>839</b>	<b>804</b>	<b>Deficit</b>
Southwest monsoon (June to September)									

### Area coverage

Sowing of kharif crops was completed in an area of 66.42 lakh hectares against a set target of 74 lakh hectares by end of September, accounting for 89% coverage. Normal coverage by end of September stands around 67.99 lakh hectares; the corresponding coverage of previous kharif season was 64.56 lakh hectares.

Failure of rains during July and September caused set back in area coverage of Ragi in Southern districts. Inadequate rains in Malnad districts and command area of Cauvery river

resulted in poor progress in area coverage of Paddy in Mysore, Mandya, Chamarajnagar, Hassan, Chikkamagaluru and Tumakuru districts. Deficit rains in Shimoga and Kodagu also caused set back in coverage of rainfed paddy.

Farmers were advised to take up semi dry crops like Ragi, Minor millets, Horse gram etc in place of high water intensive crops like Paddy and Sugarcane in view of deficit rains and inadequate water storage in major reservoirs. But, the deficit/scanty rainfall during July and September (-10% & -44%) in Southern districts barred the farmers to take up even such sowing.

### **Impact of Dry spell**

Kharif crops in an area of 27.32 lakh hectares (41% of sown area) suffered due to moisture stress and it affected the yield significantly. Out of this 26.18 lakh hectares were estimated to be area with greater than 33% yield loss.

### **Drought Declaration:**

On the basis of rainfall deficiency, dry spell duration and moisture adequacy index Government declared 100 taluks as drought affected taluks.

## **II. RABI**

Rabi production programme depends upon residual soil moisture and Northeast monsoon rainfall during October – December. The northern districts account for nearly 90% of the total Rabi area in the State. The major crops grown are Rabi Jowar, Bengal gram, Wheat, Sunflower, Safflower, Linseed etc.

### **Northeast monsoon:**

Rainfall during October was scanty in all the northern districts of the State except Bidar, where normal rainfall occurred. Actual average rainfall was 91 mm as against a normal of 176 mm in the State, thus deficit by 48%.

During November also, rainfall continued to be scanty in the State and in northern districts the deficiency was 48%. Actual average rainfall was 14 mm as against a normal of 41 mm, thus deficit by 65%.

During December light to moderate rainfall occurred over major parts of South Interior Karnataka and Malnad regions. Rainfall deficiency was 54% in northern districts. Actual average rainfall during the month was 5 mm as against a normal of 10 mm.

Cummulative rainfall from 1<sup>st</sup> October to 31<sup>st</sup> December 2018 was 96 mm as against a normal of 188 mm, deficit by 49%, but the deficiency was 81% in North Interior districts. Cummulative rainfall was normal only in 11 taluks, deficit in 100 taluks and scanty in the rest 65 taluks.

Sl. No	Month	Classification of Taluks in Different Category					Rainfall (mm)		
		Excess	Normal	Deficit	Scanty	No Rain	Normal	Actual	Pattern
1	Oct.	0	36	89	51	0	134.00	77.00	Deficit
2	Nov.	0	5	52	119	0	41.30	14.30	Scanty
3	Dec.	20	6	33	114	3	10.20	5.00	Deficit
	NE Monsoon	0	11	100	65	0	187.50	96.00	Scanty
<b>Northeast monsoon (October to December)</b>									

### Area coverage

Sowing of Rabi crops was completed in an area of 27.89 lakh hectares by end of December against a set target of 31.80 lakh hectares, accounting for 88% coverage. Normal coverage by end of December stands around 30.47 lakh hectares; the corresponding coverage of previous Rabi season was 32.44 lakh hectares. Complete failure of rains from October to December in Northern districts caused set back in area coverage of Rabi crops especially Jowar, Wheat and Sunflower.

### Impact of Dry spell

Drought during Rabi affected crops in 20.40 lakh hectares and out of this 19.46 lakh hectare area was estimated to be with greater than 33% yield loss.

### Drought Declaration:

On the basis of rainfall deficiency, dry spell duration and moisture adequacy index Government declared 156 taluks as drought affected taluks

## III. SUMMER

Normally sowing of summer crops is taken up under irrigation sources in an area of about 5.41 lakh hectares in the State. Sowing of summer crops commences in December (except Groundnut as Rabi/Summer during 2<sup>nd</sup> fortnight of October in some parts of NIK) and concludes by mid of March. Summer crop production mainly depends on irrigation water availability in major/minor irrigation reservoirs and tanks as well as adequate power supply.

It was programmed to cover 5.41 lakh hectares under various summer crops like Paddy, Groundnut, Sunflower, Maize, etc under different irrigation sources. Failure of rains during the end Southwest and Northeast monsoon resulted in water storage in majority of the major/minor irrigation reservoirs, tanks and depleted groundwater table in most of the districts.

Sowing of summer crops like Paddy, Groundnut, Sunflower, etc. was taken up only in an area of 2.81 lakh hectares against the set target of 5.41 lakh hectares accounting for 52% progress. Non-availability of canal irrigation in many districts and depleted ground water in major parts caused severe setback in the area coverage of summer crops.

### **Production Prospects:**

As 66% of the cultivated area in the State is under rainfed cultivation and failure of rains for consecutive four month (July-September 2018) has made a severe impact on the agricultural production. As per 3rd advance estimates of Directorate of Economics & Statistics, production of cereals, pulses and oilseeds is estimated to be in the order of 89.22, 17.41 and 8.60 lakh tonnes, against the respective target of 115, 20 and 14 lakh tonnes. The decline in production is due to decline in area coverage and the prevailing drought situation.

Estimates of Crop-wise Targetted and likely achievement of area / production are furnished in Annexure- I.

### **Agriculture Production Programme for 2019-20:**

Considering the area coverage of agriculture crops in recent years and anticipating well distributed pre-monsoon, southwest monsoon and northeast monsoon during 2019-20; it is programmed to cover agriculture crops in 75.18 lakh hectares during Kharif, 31.48 lakh hectares during Rabi and 5.50 lakh hectares during summer season.

The production target in respect of cereals, pulses and oilseeds is proposed to be 116.26, 22.50 and 14.72 lakh tonnes, respectively. Production target for commercial crops viz. Cotton, Sugarcane and Tobacco is proposed at 19.01 lakh bales, 400 lakh tonnes and 0.71 lakh tonnes, respectively.

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### **ANNEXURE – I**

#### **CROP-WISE AREA & PRODUCTION TARGETS AND LIKELY ACHIEVEMENTS DURING 2018-19**

Sl. No.	Crops	Area (Lakh ha.)		Prodn.(Lakh tonnes)	
		Target	Estimated Achvt.	Target	Estimated Achvt. *
I	<b>CEREALS:</b>				
1	Rice	13.05	11.48	39.62	31.12
2	Jowar	11.47	9.60	13.71	9.14
3	Ragi	7.67	5.82	13.44	6.71
4	Maize	13.87	12.99	42.92	38.46
5	Bajra	2.33	3.44	2.55	1.96
6	Wheat	2.10	1.55	2.52	1.73
7	Minor Millets	0.46	0.23	0.25	0.10
	<b>TOTAL CEREALS:</b>	<b>50.94</b>	<b>45.11</b>	<b>115.00</b>	<b>89.22</b>

Sl. No.	Crops	Area (Lakh ha.)		Prodn.(Lakh tonnes)	
		Target	Estimated Achvt.	Target	Estimated Achvt. *
II	<b>PULSES:</b>				
1	Tur	10.40	22.45	8.84	8.38
2	Bengal gram	12.18	12.48	7.31	5.95
3	Horse gram	1.93	1.53	0.98	0.79
4	Black gram	1.04	0.88	0.52	0.41
5	Green gram	3.91	4.20	1.27	1.46
6	Cowpea & other pulses	1.06	0.90	0.46	0.21
7	Avare	0.84	0.52	0.60	0.20
	<b>TOTAL PULSES:</b>	<b>31.36</b>	<b>42.96</b>	<b>0.02</b>	<b>17.41</b>
	<b>TOTAL FOODGRAINS:</b>	<b>82.30</b>	<b>88.07</b>	<b>20.00</b>	<b>106.63</b>
III	<b>OILSEEDS:</b>				
1	Groundnut	8.45	5.24	7.87	4.48
2	Sesamum	0.52	0.32	0.29	0.20
3	Sunflower	3.86	1.05	2.11	1.17
4	Castor	0.18	0.09	0.15	0.01
5	Niger	0.16	0.04	0.05	0.003
6	Rape & Mustard	0.04	0.01	0.01	0.0003
7	Soyabean	3.08	4.09	3.08	2.62
8	Safflower	0.50	0.17	0.42	0.11
9	Linseed	0.07	0.02	0.02	0.004
	<b>TOTAL OILSEEDS:</b>	<b>16.86</b>	<b>11.03</b>	<b>14.00</b>	<b>8.60</b>
IV	<b>COMMERCIAL CROPS:</b>				
1	Cotton (Prod. Lakh bales)	6.48	4.79	16.43	13.40
2	Sugarcane	5.31	5.84	350.0	471.52
3	Tobacco	0.91	0.93	0.94	0.48
	<b>GRAND TOTAL</b>	<b>111.91</b>	<b>110.66</b>		

Note: Sugarcane production for 4.40 lakh hectares harvestable area @80 tonnes per ha.

Source: \* 3rd Advance Estimates of Directorate of Economics & Statistics, Bengaluru.

## **WATERSHED DEVELOPMENT DEPARTMENT**

### **Annual Report 2018-19**

#### **OUR VISION**

1. To be counted among the most Professional, Pioneering, Innovative, Dedicated and Farmer- Focused Watershed Development Department in the nation.
2. To have sustainable development of land resources in the rainfed / degraded areas of rural Karnataka and to enhance their productivity.
3. To achieve the goal of sustainable development through participatory approach of stakeholders in watershed development programme and enhance livelihood opportunities of the people living in the rainfed / degraded areas.

#### **OUR MISSION**

Our mission is to develop, promote and implement through participatory approaches, a decentralized, cost effective/productive, transparent and sustainable Watershed treatment package;

1. To meet rural livelihood needs
2. To enhance employment and income opportunities for the poor,
3. To improve the productive potential of natural resource base,
4. To reduce the poverty and natural resources like soil, water, plant and livestock resource degradation.

#### **INTRODUCTION**

India is one of the major agricultural countries with more than 65% of the population depending on it. Indian agriculture is dependent on monsoon which is not uniform over the years. Nearly three fourth of the cultivable land in India is dependent on monsoon.

The productivity of any crop mainly depends on two natural resources- land and water in addition to management practices. Therefore the conservation, up gradation and utilization of these two natural resources on scientific principles is essential for the sustainability of rainfed agriculture. The watershed concept for development of rainfed agriculture is gaining importance over the years and it amply demonstrated that watershed developmental tools are very effective in meeting the objectives and mission.

Karnataka has been given an important place for Watershed Development because 75% of the cropped area in Karnataka depends upon low and uncertain rainfall. The geographical area of the State is 190.50 lakh ha. of which 129.70 lakh ha. is available for watershed development. Upto the end of 2018-19 an area of 69.85 lakh ha is already treated, and 59.85 lakh ha. (Out of which 7.54 lakh ha. is under treatment) is yet to be treated.

#### **Importance of watershed development in Karnataka:**

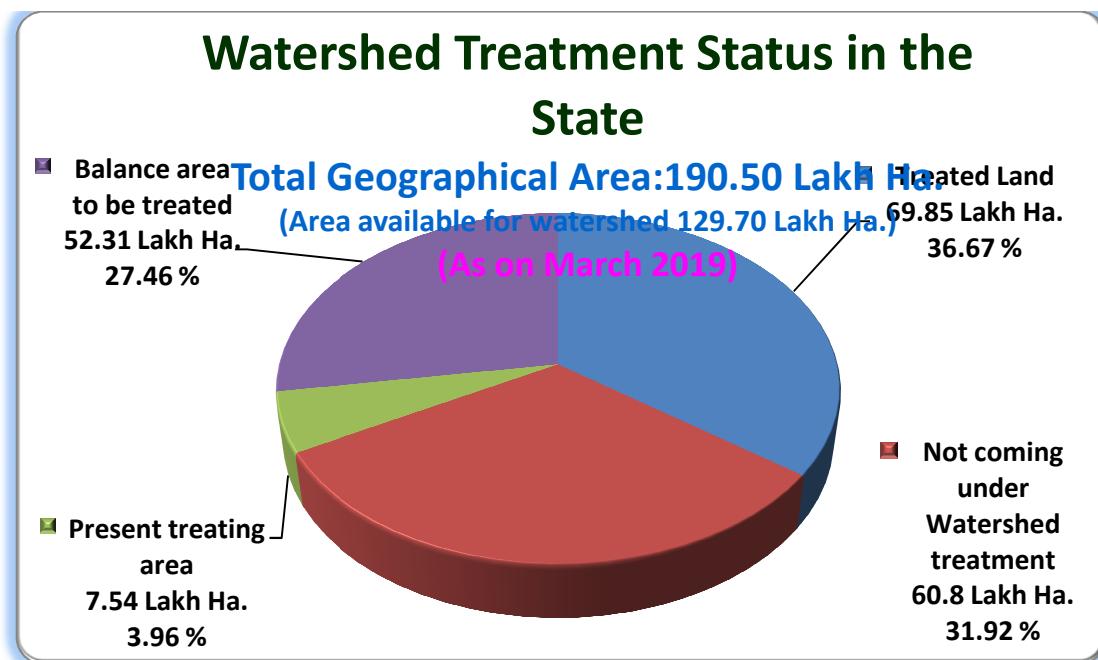
The land resources of Karnataka, especially its dry drought prone lands, which comprises more than 79 % of the total arable area, have been poorly managed by the resource

poor farmers of the State. Soil loss due to erosion coupled with reduced water resources has led to a situation of rapid soil fertility deterioration, declining/stagnating crop yields, depletion of underground water sources, deforestation, denudation, destruction of natural pasture and diminishing biomass production. Exploring the full potential of rainfed agriculture to meet the food , fodder and fuel requirement of the State population, is the only alternative, however, this will require investing in suitable soil and water conservation technologies, crop breeding targeted to rainfed environments, agricultural extension services and access to markets, credit and input supplies in rainfed areas.

Karnataka has the highest proportion (79%) of drought prone area among all major States in the country and in absolute terms it has the second largest area of dry land in the country after Rajasthan.

#### **Area scenario for development on watershed concept in Karnataka**

- Total geographical area : 190.50 lakh ha
- Total area available for treatment : 129.70 lakh ha
- Total area already treated : 69.85 lakh ha
- Balance area to be treated : 59.85 lakh ha  
(Including the area under treatment)
- Area not available for treatment : 60.80 lakh ha



#### **AIMS AND OBJECTIVES OF THE WATERSHED DEVELOPMENT PROGRAMMES**

1. Reducing soil erosion, runoff and nutrient loss.

2. Improve water availability at surface and ground.
3. Improving agricultural productivity.
4. Improving vegetative cover.
5. Increasing milk and horticulture production.
6. Increasing fodder and fuel availability.
7. Increasing household income.
8. Enhancing quality of life among local communities.
9. Local institutional development through community based organizations.
10. Ensuring institutional support by Watershed Development Department as facilitator and by NGOs for community organization and strengthening.

## **CHAPTER-I**

### **History of Watershed Development:**

#### **1. Watershed Development Department(WDD): ( 2000 onwards)**

Soil and water conservation, a pre-requisite for the farming sector to flourish, started with a massive field bunding programme, which has undergone a horizontal and vertical transformation up to year 2000 and Karnataka State Dept of Agriculture (KSDA) was the nodal agency. The Watershed Development Department was started during the year 2000 to make the watershed development a more professional and to implement the watershed programmes on more co-ordinated and in an integrated manner. The concept of peoples participation was refined, redefined and strengthened by way of restructuring the guidelines for implementation of NWDPRA ( Jana sahabhagithva 2002) and Area Development Programmes like DPAP / DDP / IWDP ( Hariyali 2003) by GoI. Even though initially all the watershed development projects implemented by KSDA were transferred to WDD, the projects of ADP were also transferred to WDD, later in the year 2005.

#### **Creation of Watershed Development Department in Karnataka:**

In the background of growing population in the State with a consequent increasing demand for food grains, was strongly felt for bringing large tracts of rainfed / dry land area under watershed treatment to increase productivity. Different Departments like the Agriculture, which was implementing different soil and water conservation programmes and watershed projects, the RD&PR implementing various rural development programmes having, watershed concept as a component through Panchayath Raj Institutions, the Horticulture, Forest, and Animal Husbandry Departments were also carrying out various watershed programmes. In addition, there is also a component of non-land based activities in watershed development and participation of NGOs and village committees. Therefore the GoK considered various aspects including commitment given in the context of an externally aided project and decided that better co-ordination in planning, implementation and supervision would be achieved by setting up a separate department of watershed with multi disciplinary teams. With this prime aim, to develop watershed in an integrated and co-ordinated manner, the Government of Karnataka created Watershed Development

Department vide order **AHD: 206:AML.94 (Vol-III) dated 31.12.1999** and it came into effect from **01.04.2000**. This Department is given the responsibility of coordinating the formulation, planning and execution of different activities of agriculture, soil conservation, afforestation, horticulture, livestock, pasture development and income generation activities etc., in an integrated manner on the watershed concept.

## **CHAPTER-II**

### **TREATMENT INTERVENTIONS**

#### **Social mobilization and capacity building:**

##### **People's participation and community organization is mandatory for Watershed Development Programmes**

#### **Participatory watershed Treatment:**

People's participation is the key to effective and sustainable watershed development programmes. This will not only ensure long term sustainability of the watershed development process through ownership of the programmes but also empower the watershed communities to initiate activities on their own and take optimal advantage of other ongoing developmental programmes. The participatory approach enhances implementation ability at the local level and create community infrastructure for micro-watershed projects.

One of the main objectives of watershed programmes in Karnataka is to strengthen the capacities of communities for participatory involvement in planning, implementation, social and environmental management, and maintenance of assets arising from local level development programmes. In watershed programmes, social mobilization process involves the following activities.

#### **1. Awareness creation:**

The various awareness building activities like house visits, group meetings, grama sabhas, street plays, jathas, video-shows, wall paintings, animal health camps, hasiru habba, PRA excercises etc. are conducted at the village level with the assistance of NGOs.



**2. Entry point activities:** To meet the desire and felt needs of the community and to develop rapport with people, some of the infrastructural activities like drinking water and sanitation systems, community buildings, school buildings, cattle troughs etc. were taken up to initiate people participation in watershed development.



### 3. Community Based Organizations

**(CBOs):** Community based organizations like Self Help Groups (SHG), User Groups (UGs) and Watershed Committees (WC) are formed at each micro-watershed. The Poor and vulnerable people are organized into SHGs and land owning farmers are organized in to UGs. The watershed committee mainly consists of representatives of SHGs, UGs, and PRIs. Watershed Development Department gets support from NGOs for community organization and Capacity Building



### Soil and water Conservation measures

The most serious forms of soil erosion in Karnataka are sheet, rill and gully erosion. The estimated annual soil loss is 4 to 10, 14 to 65, 30 to 40 tons per ha. in red, black and lateritic soils, respectively. Such soil loss apart from removing fertile top soil, reduce the rooting depth and adversely affect moisture storage and thereby the crop yields. The large quantity of eroded soil deposited in tanks, reservoirs, streams and river beds and reduce their storage and carrying capacities. Soil erosion depends on various factors like rainfall, soil type, vegetation and land use. Mechanical as well as vegetative measures are used for soil and water conservation. The important principles that are kept in view in planning erosion control measures are:



1. Time of concentration of runoff water should be increased to allow maximum absorption.
2. Long slopes should be divided into several short ones to reduce the velocity of runoff water to non-erosive value.
3. Rill formation should be prevented
4. Measures must be simple and have relatively low cost for easy adoption.

## Land Management Practices

### 1. Arable land treatment

#### 1.1 Field bunds:

These are the earthen embankments constructed along the boundary lines of the individual farmers plot to conserve the soil and moisture in his plot itself.



#### 1.2 Trench-cum-pit method of bunding:

It is a newly evolved bunding type, where in the earthen embankments constructed with a 5 mtr length x 1 mtr width x 0.6 mtr depth trenches and by leaving 0.6 mtr in between trenches (upstream toe of the bund and the trench). More runoff water can be stored, there by more water infiltrates into the soil and provides moisture for longer period to the development of vegetation.

**1.3 Contour strip:** Contour strip formed in the areas where rainfall is less, gentle slope with less infiltration. This is to increase the moisture infiltration rate. Within the two contour strips small size bunds with bund former are also made.

#### 1.4 Boulder bunds:

This is a bund across the slope constructed by using locally available stones / boulders in the sand mixed soils and in the shallow soils. This is an alternative to the contour bund, where there is no enough soil to form bunds.



**1.5 Graded bunds:** These are trapezoidal earthen embankments constructed on grade across the major slope. These bunds are taken up in Medium to Deep Black soils and areas with receiving annual rainfall of more than 750 mm, where runoff is high and surplussing is essential.

**1.6 Vegetative bund/ Vegetative check:** A live vegetative barrier on the contours is made which will decrease the velocity of rain water and in turn soil erosion is controlled. These checks could also be formed in between the contour bunds.

**1.7 Water ways:** These are formed along the slope for safe disposal of excess rain water from cultivable areas to nala. Grass turfing is also carried out in the water ways to avoid further scouring.



**1.8 Farm ponds:** Farm ponds are opened across the water ways by digging the soil. The excess rain water is harvested and the harvested water is used for various activities like giving protective irrigation to vegetables and orchards including drinking water to animals and birds.



#### INTERBUND MANAGEMENT PRACTICES

- ➡ Fall ploughing.
- ➡ Land levelling to avoid local stagnation
- ➡ Vegetative barriers - Khus/Subabul/Dicanthium across slope at 10 to 15m interval
- ➡ Deep tillage
- ➡ Adoption of ridges and furrows, Beds across slope
- ➡ Small bund (0.09 sq. m) or (0.18 Sq.m) at 10m / 15m interval across slope
- ➡ Vertical mulching

#### 2. Non-Arable Land Treatment

Treatment of non-arable land has been inevitable to reduce the runoff and to create water storage at field level. They help to distribute moisture uniformly on sloping land so that natural vegetation grows successfully and restores the bio-diversity.

**2.1 Contour Trench / 'V' ditches:** These are trenches / V-ditches dug on contour in non-arable lands of more than 3% slope to hold run off for conservation and reducing erosion. They are established for development of trees and grass species and are adoptable in areas with annual rainfall of up to 950 mm.



**2.2 Pits with Crescent - shaped bunds:** These consists of staggered rows of pits with crescent-shaped bunds for planting trees and are adoptable in non-arable lands especially in

rock out crop areas having 3% (3 – 5%)slope in areas with annual rainfall of less than 950 mm.

**2.3 Catch pits:** These are large pits dug at rill points and in waterways to trap runoff water. They are adoptable in hilly lands with rock outcrops.

**2.4 Continuous contour trenches:** Trenches are opened at a distance of 5 to 10 meters with 0.45 meter depth and 0.6 meters width in the areas where annual rainfall is less than 750 mm. The rain water is collected in the trenches and then the plants could be planted.

**2.5 Staggered contour trenches:** These are opened where there is undulating soil slope with humps.

**2.6 Graded contour trenches:** These trenches are made in the black soil areas and areas where rainfall is more than 750 mm, for safe disposal of excess water and forest plants are planted.

**2.7 Water recharging pit:** The pit is opened in the uncultivable area in the direction of diversion channels / water ways or nearby areas where there is flat lands. Dry stone pitching on the three sides of upstream side also be done.



**2.8 Diversion channel:** Diversion channel is formed to avoid the rain water that flows from pasture lands, hilly areas, and forest areas entering into the cultivable area. A drain across the slope is opened for safe disposal of runoff water.



### 3. Drainage line treatment

#### 3.1 Upper reaches treatment

##### 3.1.1 Vegetative checks:

Sod-forming grasses like *Cynodon dactylon*, *Digitaria* and *Dicanthium* are planted. In some cases trees and shrubs such as *Ipomoea carnea*, *Vitex nigundo*, *agave*, *Saccharum munja* and bamboo are also recommended for Sod strip, Sodded earthen check & Shrub checks to filter silt in the runoff water. (The locally available Agaves, lavancha, Jatropa, Pongamia etc could be used as vegetative checks)



**3.1.2 Vegetative filter strips:** These are made to reduce the velocity of rain water coming from hills, forest area across the slope at intercepting areas where cultivable and uncultivable areas join. Once the vegetative strips are grown fully it will act as a barrier to check the flow of water from slopes and soil erosion is controlled.



**3.1.3 Boulder checks:** These are porous checks across the gully constructed using boulders to check water velocity and to arrest silt.

**3.1.5 Brush wood checks:** These are porous checks constructed across the gully with wooden pegs and brush wood and are adoptable in all areas.

**3.1.6 Gabions:** These are dams made of wire-woven baskets filled with stones placed in trench of suitable size across steep-sloped gullies to trap erosion debris during rains. They are adoptable in all areas of high slopes and high rainfall.

**3.1.7 Water recharge pit:** Pit is opened in the soils where there is less water infiltration rate. The pit is opened in the gentle slope nala / gullies where the upper reaches are already treated so that there is less scope of siltation. These should be opened preferably adjacent to open walls or borewells. (It may be open type or filled with Graded filters)

**3.1.8 Sunken ponds:** The rain water flowing in gully will be collected in Sunken pond so that the moisture percentage in the surrounding area is increased. The excavated soil is put as bund (with stone pitching to the exposed surfaces) so that water storage is increased.



## 3.2 Middle reaches treatment:

### 3.2.1 Loose Rock Ravine Reclamation Structure/ Rock filled dam:

These structures are constructed where there is no necessity of impounding more water and to avoid further scouring. These are constructed at the points where gullies join and of serious nature. The availability of stones should be within 40kms distance.



### 3.3 Lower reaches treatment:

**3.3.1 Check dams:** These are stone masonry structures constructed across deep nala with the objective of storing runoff water for providing protective irrigation, drinking water for the cattle and wild life and to recharge underground water table besides reducing sedimentation of tanks and reservoirs.



**3.3.2 Vented dam:** Stone masonry or RCC work taken up in the high rainfall areas. The vents are provided to allow the water flow during the rainy season and store water after the rainfall ceases. Wooden Planks are provided to close the vents. The stored water is used for irrigation.

**3.3.3 Nala bunds:** This structure consists of composite earthen embankment constructed across the nalas and valleys in arable and non-arable lands to store run-off for recharging ground water and make water available for social and agricultural use at surface level.



**3.3.4 Percolation tank:** This is also Nala bund but with stone, cement masonry outlet to drain the excess water. This is opted where there is less scope for cut-out let and hills present in the catchment. It helps to store run-off for recharging ground water and make water available for social and agricultural uses at surface level.

## FORESTRY

Upto 20% of the project fund is usually earmarked for agro-forestry and afforestation by planning multipurpose tree species including models like block plantation and community land afforestation. Emphasis is given for planting of multipurpose tree species preferred by farmers for fuel, fodder, fruit, green manure and other uses. Bio-fuel trees like pongamia and neem are being encouraged. The residual oil cake can also be used as good bio-fertilizer.

### **Farm Forestry:**

Farm forestry is implemented in farmers' land within the watershed areas. In this model 100 plants useful and economically beneficial to farmers' are being planted. For ex: Teak, Silveroak, Hebbevu, Halasu, Honge, Bevu, Nerale, Seethaphal, Nugge, Karibevu, Nelli, Nimbe, Perale, Hippe, Seemarouba, Subabul, Agase, etc. The plants being planted should be economically beneficial to farmers' in the form of fodder, green manure, fuel, timber along with enriching the soil.



### **Plantation (Afforestation/Artificial afforestation)**

Preference is given for planting in the community land available within the micro-watershed. The land which is degraded because of man-animal encroachment, multi-purpose tree species are being planted. By doing this, 1) soil and moisture conservation in degraded lands will be conserved by planting trees which makes the land fertile and useful to farmers' of that region, 2) This will help in containing erosion of fertile soil and helps in conserving the nature.



### Multipurpose tree species

<b>Fast growing species</b>	<b>Fruit yielding species</b>	<b>Timber species</b>
1. Jali 2. Hebbevu 3. Bage 4. Neem 5. Survey 6. Sissu 7. Glyricidia 8. Silver oak	1. Cashew 2. Seethaphal 3. Halasu 4. Nelli 5. Hunse 6. Bare 7. Antuwala 8. Mango 9. Nugge	1. Jali 2. Bamboo 3. Kadu sippe 4. Teak 5. Holemathi/Mathi 6. Hebbevu 7. Sissu

During 2018-19, totally 50,960 hect. have been treated by planting 55.982 lakh seedlings. Rs.2535.193 lakhs has been spent for these forestry works.

**Tench Mount plantation**



**Agave beds**



## **HORTICULTURE**

### **Dryland Horticulture :**

Horticulture Sector plays an important role in the development of watershed area by the concept of dry land horticulture. The growing of suitable perennial dry land horticultural crops not only brings soil and water conservation insitu, but also makes best use of available moisture resulting in increase in the returns. This creates an eco-friendly environment in addition with generation of rural employment opportunities. The planting materials of suitable horticultural crops like fruit, flowers and perennial Vegetable crops are supplied and planted in the identified beneficiaries lands.

### **Agri-Horticulture:**

This is the practice of cultivating perennial fruit crops along with annual field crops and is particularly useful in marginal and sub-marginal farmers. Annual agriculture crops can be grown as intercrops in the available space for certain years.

These inter crops provide returns to farmers in pre-initial years, while perennial horticultural crops gives income every year up to 25-50 years.

### **Vegetable minikit programs:**

It is one of the important programme, which is being implemented in watershed area. Vegetable minikit are distributed to all the section of farmers. The beneficiaries family members get nutritive food at least by consuming the produce of this minikit. They also earn small portion of income by selling vegetables.

### **Bund sowing of Horticulture Seeds:**

The suitable horticulture crop seeds such as vegetable and fruit seeds are sown all along the bunds under this programme. This practice strengthens the bunds against rain and wind associated erosion. It not only brings additional income by selling the produce but also improves the nutrition status of the community by consuming the fresh produce in their daily diet.

Sujala-III is an important project, where in Horticulture crops have been planned and recommended for growing in the farmer field based on scientific data which is generated in farmer field. viz., Soil surface and structural characteristic, nutritional status, land use, availability of ground water and its characteristic, weather, climatic conditions, hydro geography etc., by utilizing the scientific data farmer can grow suitable crop in their land and would get substantially more income. For land less people income generating livelihood programmes have been formulated and implemented based on the socio economic status survey report.

During the year 2018-19 under PMKSY-(WD) Rs. 1881.63 lakhs has been spent for area expansion (12053.21 Ha.), bund sowing, vegetable minikit distribution programmes. Under SUJALA-III Rs. 773.98 lakhs has been spent for area expansion (7649.91 Ha.), bund sowing, vegetable minikit distribution programmes respectively.



## LIVESTOCK

Animal Husbandry is an important activity that brings sustainability to agriculture sector and also supplements for providing food security to the nation. In integrated farming, livestock rearing helps in organic farming and to enhance soil fertility. Livestock rearing depends on the type of feed and fodder. In order to prevent soil erosion by over grazing stall feeding is promoted in watershed areas by constructing shelters for animals.

In order to bridge the gap in fodder scarcity, fodder development and demonstrations are arranged by the Watershed Development Department.

Animal Health Camps are conducted in each Micro watershed twice in a year to improve fertility status of the animals and to prevent parasitic infestations and communicable diseases in livestock.

During the year under PMKSY-WD in fodder development activity, Fodder area has been developed in an area of 1871.07 ha. and produced 56132 metric ton grass by spending Rs. 159.21 lakhs. 921 Animal Health Camps have been conducted. In these Animal Health Camps vaccination against communicable diseases, Anti- parasitic dosing and infertility treatment has been carried out. Mineral mixture has been distributed to improve health status of the animals and to enhance production. Demonstration of Enrichment of fodder and extension activities were also carried out at the time of conducting these Animal Health Camps.

Under Sujala-III programme during 2018-19, under fodder development programme perennial grasses area has been developed in an area of 306 ha. and 5625 fodder minikit were distributed 2188 rams were also distributed Rs. 264.10 lakhs has been spent since inception of programme.



### CHAPTER-III

#### **I. PRADHAN MANTRI KRISHI SINCHAYI YOJANA-WATERSHED DEVELOPMENT (ERSTWHILE IWMP)**

a)	Name of the Scheme and year of introduction	Pradhan Mantri Krishi Sinchayi Yojana-Watershed Development & Other Interventions (Erstwhile IWMP) programme started in the year-2009-10
b)	Budget head	<b>2402-00-102-0-30 (Plan)</b>
c)	If plan, the Central and State share is	In the ratio of 60:40 central and state share ( Rs. 12000.00 unit cost/ha in plain areas, Rs. 15000.00 unit cost/ha in desert / hilly areas )
d)	Objective of the Programme	<ul style="list-style-type: none"> <li>▪ To conserve soil, moisture and nutrients &amp; enhance recharge of underground water</li> <li>▪ To improve vegetation by afforestation and dry land horticulture</li> <li>▪ To increase availability of fodder and fuel</li> <li>▪ To enhance Agricultural Productivity</li> <li>▪ To form and strengthening of community based organizations and to encourage livestock production.</li> <li>▪ providing livelihood activities for the assets less persons</li> <li>▪ Production systems and micro enterprises i.e., income generating activities</li> <li>▪ Effective management of runoff water and improved soil &amp; moisture conservation activities such as ridge area treatment, drainage line treatment</li> <li>▪ Rain water harvesting, In-situ moisture conservation and other allied activities on watershed basis. Converging with MGNREGS for creation of water source to full potential in identified backward rainfed blocks including renovation of traditional water bodies.</li> </ul>
e)	Estimated benefit and number of estimated beneficiaries from the programme (measurable out put at the end of year)	During 2018-19 totally 2,34,400 ha. area has been treated with various soil and moisture conservation activities and <b>9148</b> water harvesting structures have been constructed. <b>46997</b> hectare area of afforestation and dry land horticulture activities were taken up. <b>1851</b> Self-Help Groups (SHGs) were also formed. An area of <b>22870</b> ha. is brought under additional irrigation as a protective irrigation facility during the dry spells of the season.
f)	Financial (Rs. In lakhs)	Rs. 30776.33 lakhs.

#### **Expenditure (Rs. In lakhs)**

2016-17		2017-18		2018-19	
Release	Expenditure	Release	Expenditure	Release	Expenditure
54101.21	26647.53	71886.70	39662.51	58195.78	47423.78

**Physical Achievements: (Units – in Hectares)**

2016-17		2017-18		2018-19	
Target	Achievement	Target	Achievement	Target	Achievement
2,42,759	1,57,424 ha. /6110 water harvesting structures	2,00,259	1,36,258 ha. / 10717 water harvesting structures	1,50,517 6064	234400 ha. / 9148 water harvesting structures

Pradhan Mantri Krishi Sinchayi Yojana (Erstwhile IWMP) programme was started during the year 2009-10 in 29 districts and 165 taluks of state. There are about 569 projects are being implementing the state. DoLR, GOI stopped the central assistance for the 132 projects of Batch-V and Batch-VI from 31.8.2019 in the Karnataka State. For effective implementation of these projects, staffs/officers at field level have to be appointed immediately to reach the project benefits effectively to the beneficiaries.

The projects sanctioned under Batch-I and Batch-II are completed in March-2017 and March-2018 respectively. All 246 final completion and evaluation report is submitted to DoLR GOI.

M/s Remote Sensing Instruments, Hyderabad has been selected for all four revenue divisions as per the provisions of the KTTP act for Batch-III and Batch-IV projects to undertake Monitoring, Evaluation, Learning and Documentation programme. The implementation of Monitoring, Evaluation, Learning and Documentation under Batch-V and VI.

**ABSTRACT OF STATUS OF PROJECTS IMPLEMENTATION under PMKSY-WDC  
( As on 31.3.2019)**

**(Rs. in lakhs, Area in lakh hectare)**

Sl No	Batch	Number of Projects	Area sanctioned	Project Cost	Funds Released (Since inception to March-19)	Total Expenditure (Since inception to March-2019)	% Exp for Release
1	2	3	4	5	6	7	8
1	Batch-I	119	4.91	63268.00	61717.00	58465.00	92.41
2	Batch-II	127	5.46	70393.00	70447.00	64241.00	91.26
3	Batch-III	116	5.48	71175.00	61049.00	60132.00	84.48
4	Batch-IV	67	3.32	40758.00	30846.00	30300.00	74.34

5	Batch-V	63	3.22	41780.00	8110.00	7725.00	18.49
6	Batch-VI	78	3.26	42590.00	6724.00	7319.00	17.18
<b>Total</b>		<b>570</b>	<b>25.65</b>	<b>329964.00</b>	<b>238893.00</b>	<b>228182.00</b>	<b>87.61</b>

### Annual Report of Karnataka Watershed Development Project – KWDP II (Sujala-III)

Watershed Development Department is implementing Karnataka Watershed Development Project-II (Sujala-III) with the World Bank assistance from 2013-14 in the selected 2534 micro watersheds located in 11 project districts viz., Bidar, Kalaburagi, Yadgir, Raichur, Koppal, Vijayapura, Gadag, Davangere, Tumkur and Chamarajanagara till December 2019. The revised project cost is Rs.412.59 crores, in which Rs.95.00 crores has been allocated to Horticulture component which is being implemented by the Department of Horticulture. In the total project cost 70% is the World Bank loan and 30% is the State Government fund.



The KWDP-II (Sujala-III) project components include Improved Program Integration in Rainfed Areas, Research Development and Innovation, Institutional Strengthening, Strengthening Horticulture and Project Co-ordination & Management.

The project activities aim at providing scientific planning tools through generation of data of Land Resource Inventory (LRI), Hydrological Studies, Baseline studies, weather data etc., to enable institutions to develop more accurate participatory micro-watershed plans for effective implementation of watershed development projects. It is also aimed for establishment of Digital Library, Decision Support System (DSS) and Land Resource Inventory Portal, by utilizing these data for Agriculture development, benefit of farmers and exchange of information and knowledge for better planning, implementation and integration of the schemes of various land related departments.

#### Details of the scheme are as follows;

a)	Name of the Scheme and year of introduction	Karnataka Watershed Development Project – KWDP-II (Sujala-III) Started in the year : 2013-2014
b)	Budget head	2402-00-102-0-28 plan (EAP)
c)	If plan, the Central and State share is	Externally aided project 70% - World Bank loan 30% - State fund
d)	Objective of the Programme	The Project Development Objectives (PDO) is to demonstrate more effective watershed management through greater integration of programmes related to rainfed agriculture, innovative and science based approaches, and strengthened institutions and capacities of stakeholders at different levels.

e)	Estimated benefit and number of estimated beneficiaries from the programme (measurable output at the end of year)	Complete details in respect of number of beneficiaries will be given at the end of the project.
f)	Finance allocation for the year 2018-19	WDD : Rs.10000.00 lakhs & DoH: Rs.3300.33 lakhs

**Project partner institutions and roles:** The project activities are being implemented by signing the MoU / contracts with the 15 project partner institutions.

The NBSS&LUP has been assigned the role of lead project partner for LRI activity and IISc, Bangalore is the lead partner for hydrological activities, to coordinate among the State Agricultural and Horticultural Universities. KSR SAC, Bangalore assigned with the task of supplying satellite imageries to the partners and the KSNDMC provides the climate and weather data of the project area.

KVAFSU has taken up various interventions related to animal husbandry and veterinary aspects along with demonstrations of new technologies developed. IIS&WC Bellary institute has taken-up the technical monitoring and evaluation of the project. M/s. TERI is carrying out third party Monitoring and Evaluation at field level in saturation projects. ICAR- ATARI has taken up trainings in the selected Villages in the project area, for dissemination of project outputs and the NACER is assigned with the task of organizing income generating activities (IGA) trainings for members of the SHGs in the project area and further settlement.

**Land Resource Inventory:** Land Resource Inventory is taken up by the NBSS&LUP and State Agricultural and Horticultural Universities. Soil profile studies, analysis of soil samples and soil fertility are the major component of the LRI studies. Baseline studies are under completion.

The details of micro-watershed wise LRI progress upto March 2019 is furnished below.

Sl. No.	Particulars		NBSS LUP	UAS B	UAS D	UAS R	UHS B	UAHS S	Total	%
	<b>Micro-watersheds Target (Nos)</b>		<b>604</b>	<b>423</b>	<b>633</b>	<b>430</b>	<b>229</b>	<b>215</b>	<b>2534</b>	
1	LRI work completed Nos)	Ach.	596	408	633	403	229	215	<b>2510</b>	99
2	English Atlases generated (Nos)	Ach.	477	399	633	387	229	202	<b>2327</b>	92
3	Kannada Atlases generated (Nos)	Ach.	306	316	267	59	229	202	<b>1423</b>	56
4	MC Reports generated	Ach.	171	0	590	209	229	23	<b>1235</b>	49

**Progress of Hydrological activities:** Hydrological studies are taken up by the State Agricultural and Horticultural Universities in the selected 14 model micro-watersheds under the guidance of IISc. The data collected at specific intervals on ground water fluctuation, analysis of soil moisture, monitoring of wells for well yield, analysis of water samples etc. and maps are generated for the model micro-watersheds. In remaining watersheds Hydrological studies are under progress and 327 sub-watershed wise atlases are generated till March 2019.

**Saturation of watersheds:** Saturation of watersheds by utilizing scientific inputs generated in the project is taken up on pilot mode in all 11 project districts in the selected watersheds. In this regard, one sub-watershed each in 9 districts and 2 micro-watersheds each in other 2 districts have been selected, detailed project reports prepared and implementation is under progress. As per the direction of 11<sup>th</sup> PEC the DPR amounts revised to Rs.10637.45 lakhs. Since inception expenditure incurred up to end of March 2019 (as per IUFR report) is Rs.8994.56 lakhs.

**DL, DSS & LRI Portal :** The process of establishment of LRI (Land Resource Inventory) portal, Digital Library and the Decision Support System (DSS) has been taken up by the selected agency and work is under progress.

**Installation of LED Display units** in the premises of RSK, ADA and JDA offices in the project area for disseminating the day to day meteorological information to the farming community with the assistance of KSNDMC, is under progress.

#### **Dissemination of LRI outputs:**

For dissemination of LRI outputs and utilization of Digital Library, Decision Support System (DSS) and Land Resource Inventory Portal for farming community, various line departments and related private agencies, a State level LRI stakeholder workshop was conducted. In the similar lines District level workshops were conducted in the respective project districts and also taluk level workshops are being conducted.

**Village level trainings** are being conducted in the project districts by the concerned officials of the RSKs, to create awareness among about LRI outputs to the farmers in all the project area, where LRI is carried out. In this regard, LRI Extension Managers are hired for each RSK in the project area for facilitating in LRI dissemination. The ICAR-ATARI is also conducting trainings in the selected 333 villages through KVK of the respective districts. Till March 2019, 82 trainings conducted by ATARI and 311 trainings by RSKs.

**LRI cards:** LRI partner institutions are generating the LRI cards for each parcel of land, where LRI taken up and providing to the respective district offices for printing and distribution to the concerned farmers after conducting the village level trainings. So far, 30064 LRI cards have been distributed.

**IGA Trainings:** NACER is organizing trainings on income generating activities (IGA) like tailoring, dairy etc., for about 50% members of the SHGs in the project area and also further settlement by linking with NRLM scheme, to take up the IGA activities. So far, NACER conducted trainings for 1666 members out of targeted 2683 members..

**Other project activities :** Other activities taken up under the project include, Research and Development, institutional strengthening, capacity building for the stakeholders and beneficiaries, productivity enhancement of agricultural and horticultural crops, formation of FPOs, veterinary animal and fisheries activities, Monitoring & Evaluation, Documentation etc.

#### **Financial progress:**

Budget for the WDD and Department of Horticulture have been allocated and released under separate head of accounts. The total release and expenditure details of the project for last three years for both WDD and DoH are given below.

(Rs. In lakhs)

	2016-17			2017-18			2018-19		
	Grant Released	Exp. (62-B)	IUFR Exp. (100%)	Grant Released	Exp. (62-B)	IUFR Exp. (100%)	Grant Released	Exp. (62-B)	IUFR Exp. (100%)
<b>WDD</b>	5000.00	4964.09	3927.40	5000.00	4988.15	5540.64	10000.00	9984.73	8767.67
<b>DoH</b>	630.00	592.98	592.98	2200.00	1901.62	1719.31	2980.00	2856.77	2918.31
<b>Total</b>	<b>5630.00</b>	<b>5557.07</b>	<b>4520.38</b>	<b>7200.00</b>	<b>6889.77</b>	<b>7259.95</b>	<b>12980.00</b>	<b>12841.50</b>	<b>11685.98</b>

#### **Highlights:**

1. The project period has been extended upto December 2019 with the approval of Dept. of Economic Affairs, GoI and the World Bank and the project cost revised to Rs.412.59 crores. The DEA and the World Bank have signed the Amendment to Financing Agreement, in this regard.
2. During 2018-19, the World Bank implementation support mission visited the State during July 2018 and January-2019 and reviewed the progress of the project.
3. As per the direction of 11<sup>th</sup> PEC, the DPR amounts of saturation projects revised to Rs.10637.45 lakhs and revision of MoU / contracts with the project partner institutions and agencies have been taken up.
4. Till March 2019, ICAR-ATARI conducted 90 village level trainings and RSKs conducted 311 trainings in the project area, and 30064 LRI cards distributed to the farmers.
5. NACER conducted IGA trainings for 1666 members of SHGs.
6. The project brought out news letters on quarterly basis to provide updates on physical, financial programs and on all activities of the project and serves as a platform to share experiences of the stakeholders.

#### **Activities proposed to take up during 2019-20 (till Dec 2019), under Sujala-III project:**

1. Completion of generation of LRI atlases (in Kannada and English), reports and cards for remaining project area.
2. Completion of implementation of remaining activities in saturation projects as per the approved DPRs.

3. Conducting Village level trainings to disseminate LRI outputs and distribution of LRI cards to the farming community in project area.
4. Establishing the Digital Library and Decision Support System and LRI portal through the selected agency.
5. Completion of installation of LED Display units in the premises of RSK, ADA and JDA offices in the project area.
6. Completion of targeted IGA trainings through the NACER in the project districts.
7. Completion of implementation of remaining activities of Horticulture component,
8. Monitoring and Evaluation of the project activities.

### **III. Watershed Development Training Centers.**

In the State two Watershed Development Training Centers are established at Mysore and Vijayapura. The important objectives of the Centre is to train the Departmental staff, personnel of NGO's and members of EC and SHG /UG/ JLG in technical, social and economical aspects of Watershed Development.

a)	Name of the Scheme and year of introduction	Karnataka Watershed Development Training Center.
b)	Budget head	2402-00-109-0-02
c)	If plan, the Central and State share is	100% State plan
d)	Objective of the Programme	<ul style="list-style-type: none"> <li>• Imparting training to Officers and staff of the Department from time to time</li> <li>• Training to staff of NGOs.</li> <li>• Training to members of Community Based Organizations (CBOs)</li> <li>• Exposure visits</li> </ul>
e)	Benefits intended to be accrued and number of beneficiaries from the programme (measurable output at the end of year)	Capacity building of the Department staff, NGO staff and CBO staff/members.
f)	Financing (Rs. In Lakhs)	Rs. 109.00 Lakhs

**Expenditure (Rs.In lakhs)**

2016-17		2017-18		2018-19	
Release	Expenditure	Release	Expenditure	Release	Expenditure
15.0	14.38	99.00	83.44	109.00	119.41

The trainings were conducted as per schedule. No constraints. Exams were conducted to trainees after closure of trainings.

**Funding from Agriculture Department**

**I. National Mission for Sustainable Agriculture -Rainfed Area Development (NMSA-RAD)**

a)	Name of Scheme and Year of Commencement	National Mission for Sustainable Agriculture -Rainfed Area Development, 2014-15 Commencement
b)	Budget Head of Account	2401-00-108-1-16
c)	If under Planned Scheme, Central and State Share	Central Share 60% + State Share 40%
d)	Objective of the Programme/Project/Scheme.	<ul style="list-style-type: none"> <li>1. To make agriculture more productive, sustainable, remunerative and climate resilient by promoting location specific Integrated/Composite Farming Systems;</li> <li>2. To conserve natural resources through appropriate soil and moisture conservation measures;</li> <li>3. To adopt comprehensive soil health management practices based on soil fertility maps, soil test based application of macro &amp; micro nutrients, judicious use of fertilizers etc.;</li> <li>4. To optimize utilization of water resources through efficient water management to expand coverage for achieving ‘more crop per drop’;</li> <li>5. To develop capacity of farmers &amp; stakeholders, in conjunction with other ongoing Missions e.g. National Mission on Agriculture Extension &amp; Technology, National Food Security Mission, National Initiative for Climate Resilient Agriculture (NICRA) etc., in the domain of climate change adaptation and mitigation measures;</li> <li>6. To pilot models in select blocks for improving productivity of rainfed farming by mainstreaming rainfed technologies refined through NICRA and by leveraging resources from other schemes/Missions like Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), Integrated Watershed Management Programme (IWMP), RKVY etc.; and</li> </ul>

		7. To establish an effective inter and intra Departmental/Ministerial co-ordination for accomplishing key deliverables of National Mission for Sustainable Agriculture under the aegis of NAPCC.;																					
e)	Estimated benefit & Beneficiaries	<table border="1"> <thead> <tr> <th>Year</th><th>Area covered (Ha.)</th><th>No. of farmer beneficiaries</th><th>Expenditure incurred (Rs.in lakhs)</th></tr> </thead> <tbody> <tr> <td><b>2018-19</b></td><td><b>4327.82</b></td><td><b>6472</b></td><td><b>931.251**</b></td></tr> </tbody> </table>				Year	Area covered (Ha.)	No. of farmer beneficiaries	Expenditure incurred (Rs.in lakhs)	<b>2018-19</b>	<b>4327.82</b>	<b>6472</b>	<b>931.251**</b>										
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**Includes expenditure of revalidated funds also																							
f)	Financial(Rupees in Lakhs)	<b>1668.17 lakhs.</b>																					
g)	Expenditure(Rupees in Lakhs)	(Rs.in lakhs)																					
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<b>10179</b>	<b>4320</b>	<b>9208</b>	<b>3416</b>	<b>6170</b>	<b>4327.82</b>																		

## II . Rastriya Krishi Vikasa Yojane:

### A. Check Dam

a)	Name of the Scheme and year of introduction	<b>Rastriya Krishi Vikasa Yojane-check dam 2017-18 to 2019-20</b>
b)	Budget head	2401-00-800-1-57

c)	Project details	Watershed Development Department is implementing Rastriya Krishi Vikasa Yojane from 2017-18. The SLSC has given approval for construction of check dams in 108 most backward taluks of 24 districts of the state. Check dams are small barriers built across the directions of water flow on nala, shallow rivers and streams for the purpose of water harvesting. It is a Centrally Sponsored Scheme with the sharing pattern of Centre and State ratio 60:40.
d)	Objective of the Programme	<ul style="list-style-type: none"> <li>• To capture the runoff water and make it to percolate in the soil profile.</li> <li>• To increase the ground water table.</li> <li>• To water stored in the nala and make it available for more number of days.</li> <li>• To give protective irrigation in times of moisture stress to increase the production and productivity of the crops.</li> <li>• The water stored in water harvesting structures can be made used for livestock and domestic needs.</li> <li>• To make water available during plant protection of crops for spraying of pesticides.</li> <li>• To avoid scouring of sites of nala.</li> <li>• To avoid siltation of bigger water storage structures and makes them viable for more number of years.</li> </ul>
e)	Benefits intended to be accrued and number of beneficiaries from the programme (measurable output at the end of year)	<p>During 2017-18 total allocation of Rs.6131.00 lakhs for 1344 construction of check dams out of which Rs.5597.00 lakhs releases and an expenditure of Rs.3224.04 lakhs has been incurred. Totally 730 number of check dams have been constructed and 4637 farmers have been benefitted from this scheme. Remaining Rs. 2372.96 Lakhs has not been utilized.</p> <p>Hence, the remaining Rs. 2372.96 Lakhs for 625 Checkdams have been revalidated during 2018-19 and Rs. 2372.96 has been utilised with a physical of 522 Checkdams formed.</p>

**Expenditure (Rs.In lakhs)**

2016-17		2017-18		2018-19	
Release	Expenditure	Release	Expenditure	Release	Expenditure
-	-	5597.00	3224.04	2372.96	2353.08

**Physical Achievements :( Units – in No.(Structures))**

2016-17		2017-18		2018-19	
Target	Achievement	Target	Achievement	Target	Achievement
-	-	1344	730	625	522

**B. Public Private Partnership for Integrated Agriculture Development (PPP-IAD)**

a)	Name of the Scheme and year of introduction	Public Private Partnership for Integrated Agriculture Development (PPP-IAD) 2017-18
b)	Budget head	2401-00-800-1-57 (059 )
c)	If plan, the Central and State share is	Central : State - 60:40
d)	Objective of the Programme	<ul style="list-style-type: none"> <li>• Addressing the entire value chain, right from the stage of pre-production to the consumers table through appropriate and timely interventions.</li> <li>• Promotion of good agricultural practices for enhancing production and productivity and providing nutritional security to the people.</li> <li>• Mobilising farmers into groups of between 15- 20 members at the village level (called Farmer Interest Groups or FIGs) and building up their associations to an appropriate federating point i.e. Farmer Producer Organisation (FPOs) so as to plan and implement product-specific cluster/commercial crop cycles.</li> <li>• To create employment opportunities for skilled and unskilled persons, especially unemployed youth.</li> </ul>

		<ul style="list-style-type: none"> <li>• Improving value addition and making farming a viable business proposition thereby ensuring increase in farmer's profitability..</li> </ul>
e)	Estimated benefit and number of estimated beneficiaries from the programme  (measurable output at the end of year)	During 2018-19, 8 PPP-IAD Projects were approved to be implemented in 12 Districts. Period of the project vary from 3-5 years with the target of registering 75,000 farmers . During the year 31875 farmers were registered and Rs.209.64 lakhs have been incurred for various activities of the projects.
f)	Financial (Rs. In lakhs)	Rs. 267.00 Lakhs

#### **Expenditure (Rs.In lakhs)**

2016-17		2017-18		2018-19	
Release	Expenditure	Release	Expenditure	Target	Expenditure
-	-	4.22	4.22	267.00	209.64

#### **Physical Achievements :(Units – in No's)**

2016-17		2017-18		2018-19	
Target	Achievement	Target	Achievement	Target	Achievement
-	-	-	-	8	7

#### **C. “Reclamation of Problem Soils” a sub-scheme of Rashtriya Krishi Vikas Yojana (RKVY)**

i)	Name of Scheme and Year of Commencement	“Reclamation of Problem Soils” a sub-scheme of Rashtriya Krishi Vikas Yojana (RKVY)
j)	Budget Head of Account	2401-00-800-1-57 (P)
k)	If under Planned Scheme, Central and State Share	Sharing in the ratio of 60:40 Central and State share
l)	Objective of the Programme/Project/Scheme.	<p>a) To reclaim and develop problem soils (lands affected by alkalinity, salinity &amp; acidity);</p> <p>b) To adopt need based site specific on farm development, bio-engineering measures and application of soil amendments in Projectised Approach;</p>

		c) To improve soil fertility and productivity by application of soil test based judicious use of fertilizers and application of macro & micro nutrients, etc.;  d) To enhance crop yields by adoption of salt tolerant crop/tree farming systems to ensure food security of the country; and  e) To create awareness amongst farmers & stakeholders for continuous cultivation to prevent re-occurrence of problem of alkalinity, salinity and acidity in conjunction with other ongoing missions strategies.																		
m)	Estimated benefit & Beneficiaries	<table border="1"> <thead> <tr> <th>Year</th><th>Area covered (Ha.)</th><th>No. of farmer beneficiaries</th><th>Expenditure incurred (Rs.in lakhs)</th></tr> </thead> <tbody> <tr> <td>2018-19</td><td>413</td><td>825</td><td>250.00</td></tr> </tbody> </table>	Year	Area covered (Ha.)	No. of farmer beneficiaries	Expenditure incurred (Rs.in lakhs)	2018-19	413	825	250.00										
Year	Area covered (Ha.)	No. of farmer beneficiaries	Expenditure incurred (Rs.in lakhs)																	
2018-19	413	825	250.00																	
n)	Financial(Rupees in Lakhs)	250.00 lakhs.																		
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Account 2016-17		Account 2017-18		2018-19 (Up to the end of March 2019)																
Release	Expenditure	Release	Expenditure	Release	Expenditure															
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2016-17		2017-18		2018-19 (Up to the end of March 2019)																
Tar.	Ach.	Tar.	Ach.	Tar.	Ach.															
415	433	416	416	436.50	436.50															
q)	Brief analysis of the performance trends and implementation constraints, reasons for the shortfall in	During the year 2016-17, an amount Rs.500.00 lakhs has been allocated and annual action plan (AAP) has been approved by GoI. The first instalment of Rs. 249.33lakhs was released to the districts very late hence																		

	<p>delivering the benefit/reaching out the beneficiaries delay in implementation: If not applicable please Mention Not Applicable</p>	<p>an amount of Rs. 249.31 lakhs was spent by the end of the year 2016-17. The remaining amount of Rs. 250.00 lakhs was carried forward and allocation made for the next year i.e., 2017-18. Hence during the year 2017-18 an amount of Rs. 125.00 lakhs was released to the five RPS implementing districts of the State viz. Belagavi, Raichur, Vijayapura, Ballari and Chitradurga as first installment for which an amount of Rs. 124.85 lakhs expenditure has been booked by the end of March-2018.</p> <p>During 2018-19 Annual Action Plan for Rs. 500.00 Lakhs has been approved by Central Government. In regard to that amount, Rs. 250.00 Lakhs for Bagalkote, Belagavi, Chitradurga and Vijayapura has been released and upto the end of March-2019 Rs. 250.00 lakhs have been utilised.</p>
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#### **D. Mahatma Gandhi National Rural Employment Guarantee Programme (Convergence):**

During the year 2018-19 under Mahatma Gandhi National Rural Employment Guarantee Programme (Convergence) Rs. 6495.45 Lakhs Financial Progress has been achieved by generating 28.04 Lakhs Person days.

**Annexure-1**

**Statement showing physical and financial target and achievement under different schemes for the year 2018-19  
(Rs. in lakhs, Area in Hectares, Structure & Micro Watershed in Numbers)**

Sl. No	Name of the Scheme	Unit	Annual Budget	Revised Budget			Releases including OB	Cumulative achievement up to March- 2018	Physical Annual Target	Achieve- ment	% of achievemen- t for release	Re- marks
				State Share	Central Share	Total						
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Directorate and Other Establishme- nt 2402-00-102- 0-01		314.00	314.00	0.00	314.00	314.00	340.64	—	—	108.48	
2	Watershed Devt. Dept. Est. 2402-00-102- 0-15		724.00	724.00	0.00	724.00	724.00	685.51	—	—	94.68	
3	Soil Conservatio- n in the catchment of River Valley Project by Watershed Develop0me- nt Department 2402-00-102- 0-25		384.00	384.00	0.00	384.00	384.00	439.64	—	—	114.49	
4	Watershed Training Centre		109.00	109.00	0.00	109.00	109.00	119.41	—	—	109.55	

Sl. No	Name of the Scheme	Unit	Annual Budget	Revised Budget			Releases including OB	Cumulative achievement up to March-2018	Physical Annual Target	Achievement	% of achievement for release	Re marks
				State Share	Central Share	Total						
	2402-00-109-0-02											
5	Assistant to Zilla Parishads/District level Panchayats (2402-00-196-02-01)		3853.00	3853.00	0.00	3853.00	3851.56	3851.56	—	—	100.00	
6	Assistance to Block Panchayats/ Intermediate level Panchayats (2402-00-197-01-01)		79.00	79.00	0.00	79.00	73.97	73.97	—	—	100.00	
7	Pradhanama nthri krishi sinchayi yojane 2402-00-102-0-30	Hectares	32750.00	12310.53	18465.80	30776.33	58195.78	47423.78	150517	234400	78.88	
		Sructures							6064	9148		
8	Sujala Watershed Project (Sujala-III)	Hectares	10000.00	10000.00		10000.00	10000.00	8767.67	30000	29254	87.68	
	2402-00-102-0-28	Micro watershed							589	655		

Sl. No	Name of the Scheme	Unit	Annual Budget	Revised Budget			Releases including OB	Cumulative achievement up to March- 2018	Physical Annual Target	Achieve- ment	% of achieve- ment for release	Re- marks
				State Share	Central Share	Total						
<b>Funding from Agri.dpt.</b>												
9	NMSA-RAD 2401-00-108- 1-15	Hectar es	1668.17	667.27	1000.90	1668.17	1056.78	931.25	6170	4328	88.12	
10	RKVY- Saline & Alkaline 2401-00-800- 01-57	Hectar es	500.00	200.00	300.00	500.00	250.00	250.00	437	436.50	100.00	
	RKVY- (2401-00- 800-1-57)											
11	RKVY- Check Dam	Struc tures	2372.96	949.18	1423.78	2372.96	2372.96	2353.08	625	522	99.16	
	RKVY- (PPPIAD)	Srtuc tuers	267.00	106.80	160.20	267.00	267.00	209.64	8	7	78.52	
	Total	Hectar es	53021.13	29696.78	21350.68	51047.46	77599.05	65446.15	187123	268419	84.34	
		Srtuc tures							6689	9670		

## CHAPTER-4

### Organization Structure:

The Watershed Development Department is established with effect from 1.4.2000.

**1. State level:** This department is headed by the Commissioner, an I.A.S. or IFS Officer of super time scale, assisted by Director of Watershed, in addition a Chief Conservator of Forest, three Joint Directors of Agriculture, one Joint Director of Horticulture and one Joint Director of Animal Husbandry and one Deputy Director of Planning are assisting the Commissionor in the matters of Forestry, Horticulture, Agriculture and Animal Husbandry activities. Similarly for accounts, Chief Account Officer of the rank of Joint Controller of State Accounts.

**2. District level:** At the District Level, Joint Director of Agriculture is implementing the programmes of the watershed activities assisted by multidisciplinary staff from Agriculture, Forest, Horticulture & Animal Husbandry the overall control / supervision of Zilla Panchayath.

**3.Taluka level:** The Taluka Level Office is headed by the Assistant Director of Agriculture, who heads PIA (Project Implementing Agency) is responsible for implementation and monitoring of various schemes/ programme for the overall development of watershed.

### Details of the Officers and Staffs Working Watershed Development Department.

Sl No	Cadre	Sanctioned Post	Filled Post	Vacant	Filled Post		Filled Post	
					Gents	Ladies	SC	ST
1	'A'	19	11	08	07	4	1	1
2.	'B'	17	11	06	4	7	1	1
3.	'C'	50	32	18	17	15	6	0
4.	'D'	15	06	09	4	2	1	0
<b>Total</b>		<b>101</b>	<b>60</b>	<b>41</b>	<b>32</b>	<b>28</b>	<b>9</b>	<b>2</b>

### Detail of Vacancy Position in the subordinate offices (District/Taluk) (Up to end of March-2019)

Sl. No	District	Sanctioned Post					No of Posts Filled					No of Posts vacant				
		A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total
1	Bangaluru	1	2	5	0	8	0	1	2	0	3	1	1	3	0	5
2	Bagalakote	1	2	5	0	8	0	0	4	0	4	1	2	1	0	4
3	Belagavi	2	2	5	0	9	1	2	3	0	6	1	0	2	0	3
4	Bellary	1	2	5	0	8	1	1	3	0	5	0	1	2	0	3
5	Bidar	1	2	5	0	8	1	2	2	0	5	0	0	3	0	3
6	Vijayapura	1	2	5	0	8	0	1	5	0	6	1	1	0	0	2
7	Chamaraja Nagar	1	2	4	0	7	1	0	2	0	3	0	2	2	0	4
8	Chikkaballapura	1	2	5	0	8	1	2	2	0	5	0	0	3	0	3
9	Chikkamaga	1	2	5	0	8	1	2	2	0	5	0	0	3	0	3

Sl. No	District	Sanctioned Post					No of Posts Filled					No of Posts vacant				
		A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total
	Iuru															
10	Chitradurga	1	2	4	0	7	1	0	2	0	3	0	2	2	0	4
11	Dharwada	1	2	5	0	8	0	2	2	0	4	1	0	3	0	4
12	Davanagere	1	2	4	0	7	1	2	2	0	5	0	0	2	0	2
13	Kalaburagi	1	2	5	0	8	1	2	2	0	5	0	0	3	0	3
14	Gadag	1	2	4	0	7	1	2	1	0	4	0	0	3	0	3
15	Hassan	1	2	5	0	8	1	2	5	0	8	0	0	0	0	0
16	Haveri	1	2	5	0	8	1	1	4	0	6	0	1	1	0	2
17	Kolar	1	2	5	0	8	1	1	1	0	3	0	1	4	0	5
18	Koppal	1	2	5	0	8	1	1	3	0	5	0	1	2	0	3
19	Kodagu	1	0	5	0	6	1	0	2	0	3	0	0	3	0	3
20	Mandya	1	2	5	0	8	0	0	3	0	3	1	2	2	0	5
21	Mysuru	1	2	5	0	8	0	1	3	0	4	1	1	2	0	4
22	Uttara kannada	1	2	5	0	8	0	1	2	0	3	1	1	3	0	5
23	Udupi	0	2	5	0	7	0	1	0	0	1	0	1	5	0	6
24	Dhakshina Kannada	0	0	5	0	5	0	0	0	0	0	0	0	5	0	5
25	Raichur	1	2	5	0	8	0	1	2	0	3	1	1	3	0	5
26	Ramnagar	2	2	4	0	8	1	1	2	0	4	1	1	2	0	4
27	Shimogga	1	2	5	0	8	1	1	2	0	4	0	1	3	0	4
28	Tumkuru	1	2	5	0	8	1	1	1	0	3	0	1	4	0	5
29	Yadgir	1	2	5	0	8	1	1	2	0	4	0	1	3	0	4
30	DATC Mysuru	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
31	DATC Vijayapura	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
Total		31	54	140	0	225	19	32	66	0	117	12	22	74	0	108

### PMKSY Staffs

Sl No	Designation	Post
1.	Technical Expert (IT)	1
2.	Technical Expert (Agriculture)	1
3.	Programmer	1
4.	GIS Expert	1
5.	IT Support/ Hardware Expert	1
6.	Accounts Assistant	1
7.	Assistant	3
8.	DEO	12
9.	Driver	9
10.	Group 'D'	10
11.	Sweeper	3
12.	Security	6
Total		49

**KWDP-II (Sujala-III) Staffs**

<b>Sl No</b>	<b>Designation</b>	<b>Post</b>
1.	GIS Specialist	1
2.	Documentation and IGA Specialist	1
3.	Hydro geologist	1
4.	Environment Specialist	1
5.	NRM Consultant	1
6.	Monitoring and Evaluation Specialist	1
7.	Soil Scientist	1
8.	Training Analyst	1
9.	System Analyst	1
10.	Project Assistant (Clerical)	3
11.	IGA Assistant	1
12.	Documentation Assistant	1
13.	GIS Assistant	3
14.	MIS Assistant	1
15.	Graphic Designer	1
16.	Data Entry Operators	4
17.	Messengers / Peons/ Class-IV	3
	<b>Total</b>	<b>26</b>

WATERSHED DEVELOPMENT DEPARTMENT

## STATE | EYE | ORGANIZATION CHART

Additional Chief Secretary and Development Commissioner

Secretary (Agriculture)

Commissioner (Watershed Development Department)



**Latitude: 15° 49'13"N  
Longitude: 74° 38'44"E  
2017-18 PMKSY V Batch, WS:Marakatti, Vlg:Ganikoppa  
Tq:Bailahongal, Dayananand Hiremath, S.No:65**



Latitude: 14.996445  
Longitude: 75.12576  
Elevation: 673.38m  
Accuracy: 27.0m  
Time: 04-04-2019 11:02  
Note: ShiggaonTq Hosur Nemichand Karadi Horticulture plants.



Latitude: 14.998073  
Longitude: 75.451341  
Elevation: 586.26m  
Accuracy: 11.0m  
Time: 03-04-2019 13:49  
Note: Savanur, Tq Vadnikoppa Virupakappa Mutalikmath Agro Forestry plants.



Latitude: 76.168233  
Longitude: 76.168233  
Elevation: 925.33m  
Accuracy: 4.6m  
Pitch: -90.0°  
Time: 09-19-2018 12:47  
Note: mugappa / basappa



2017/08/28 11:06  
723m 0929hPa  
12° 43' 22"N 077° 09' 18"E



Latitude: 11.80361  
Longitude: 76.683681  
Time: 28-08-2018 13:16  
Note: chn151



	Decimal	DMS
Latitude	13.153046	13°9'10" N
Longitude	77.934957	77°56'5" E





## Registration and Training Activities



## Field day and Procurement



## Seed Production and Demonstrations



## **KARNATAKA STATE SEEDS CORPORATION**

### **ANNUAL REPORT FOR THE YEAR 2019-20 AND ANNUAL PLAN 2020-21**

#### **AIM OF KSSC:**

The aim of the Corporation is to emerge as an industry leader in the State in seed line of activity with a continuous pursuance of excellence in quality and effective distribution services, with an eye on right product, right time, right price and right place of supply.

#### **VISION OF KSSC:**

The vision of the Corporation is to be a leading agency for accelerating agriculture productivity and production and for improving the viability of agriculture as a vocation.

#### **STATISTICS OF KSSC:**

The statistics showing the details of quantity of seeds procured, quantity of seeds sold, turnover and profitability of the Corporation for the years 2001-2002 to 2019-20 and the plan for 2020-21 are shown in **ANNEXURE-1** enclosed.

#### **OUTSTANDING ACHIEVEMENTS OF KSSC:**

Under RashtriyaKrishiVikasYojana-RKVKY, Corporation has nearly doubled seed processing capacity leading to Rs, 5.50 lakhs qtls capacity and also constructed Scientific seed storage godowns and increased the storage capacities from 1.03 lakh qtls to around 4.80 lakh quintals.

#### **HISTORY OF KSSC:**

The Corporation was established in the year 1973 under the Name & Style of “Karnataka State Agro Seeds Corporation Limited” a subsidiary organization of Karnataka Agro Industries Corporation Limited. The Government of Karnataka has participated in the National Seed Project-II during 1979. Under the National Seed Project the subsidiary organization was made an independent Corporation under the present name and style of “Karnataka State Seeds Corporation Limited”. Today the Corporation is one of the successfully run Organizations of the Government of Karnataka.

#### **PROGRAMME & PROGRESS ACHIEVED DURING 2019-20.**

##### **Foundation Seed Production Programme:**

During the current year, the Corporation has targeted the foundation seed production programme in an area of 3497 acres and the progress achieved as at the end of March-2020 is 2867 acres. The target for procurement of foundation seeds for the year was 19,677 Quintals. As at the end of March-2020, the Corporation has procured 812 quintals.

##### **CERTIFIED SEED PRODUCTION PROGRAMME:**

In respect of certified seed production, the targeted programme for the year 2019-20, was to organize the programme in an area of 70,449 acres. As at the end of March-2020 the progress achieved is 60,339 acres.

The Corporation had a procurement target of 3,32,060 quintals of certified seeds for the current year and the progress to be achieved as at the end of March-2020 is 3,14,855 quintals.

### **SEED DISTRIBUTION PROGRAMME:**

The targeted seed distribution programme for the year 2019-20 was 4,20,495 quintals to achieve a turnover of Rs. 21,692.00 lakhs. As at the end of March-2020, the progress achieved is 3,01,728 quintals against the target of 4,20,495 quintals, thereby achieved 71.75% Progress. The turnover achieved is Rs. 16,042.00 lakhs against Rs. 21,692.00 lakhs which works out to 73.95%.

### **ANNUAL PLAN FOR THE YEAR -2020-21**

#### **SEED PRODUCTION**

##### **Foundation Seed Production :**

Corporation has targeted to produce 20,000 quintals of foundation seeds during 2020-21 in an area of 3600 acres.

##### **Certified Seed Production :**

Corporation has targeted to produce 4,42,600quintals of Certified seeds during 2020-21 in an area of 74,786 acres.

##### **Seed Distribution :**

Corporation has targeted to distribute 4,39,935 quintals of seeds during 2020-21 to achieve a turnover of Rs. 23,485.42 lakhs.

### **ANNEXURE-1**

#### **SEEDS SALE, TURNOVER & PROFIT FOR THE YEAR FROM**

#### **2001-2002 TO 2019-2020 & Budgeted Plan for 2020-21**

**Qty in Qtls and Amount Rs. In Lakhs.**

<b>YEAR</b>	<b>SALES QTY</b>	<b>SALES TURN-OVER</b>	<b>PROFIT (PBT)</b>
2001 – 2002	1,41,734	2,972.31	32.89
2002 – 2003	1,96,651	3,125.64	- 108.01
2003 – 2004	1,80,676	3,729.35	139.05
2004 – 2005	2,15,400	4,111.28	57.03
2005 – 2006	2,37,474	7,220.46	149.92
2006 – 2007	4,85,971	18,598.32	161.95
2007 – 2008	2,54,876	5,477.24	52.74
2008 – 2009	2,77,994	5,864.23	82.24
2009 – 2010	6,00,045	17,810.33	711.62

<b>YEAR</b>	<b>SALES QTY</b>	<b>SALES TURN-OVER</b>	<b>PROFIT (PBT)</b>
2010 – 2011	4,74,999	16,455.16	606.86
2011 – 2012	3,68,575	15,013.68	659.51
2012 – 2013	3,95,424	20,583.89	993.32
2013 – 2014	2,89,133	16,383.00	365.39
2014 – 2015	3,12,583	15,269.90	65.37
2015 – 2016	3,52,610	15,114.17	408.62
2016 – 2017	2,96,036	15,759.39	179.63
2017 – 2018	3,54,120	17,152.09	125.53
2018 – 19	3,14,627	15,906.89	84.20
2019-20	3,01,728	16,042.00	
2020-21 (Budgeted)	4,39,935	23,485.42	

## **KARNATAKA STATE SEED AND ORGANIC CERTIFICATION AGENCY**

(A Govt. of Karnataka Organization)

Opp. Baptist Hospital, Hebbal, Bengaluru-560024

### **ANNUAL REPORT FOR 2018-19**

#### **BACKGROUND :**

Karnataka State Seed Certification Agency (**KSSCA**), was established in the year 1974 under Section-8 of the Seeds Act 1966 as an autonomous body and registered under the Karnataka Societies Registration Act 1960 with the objectives of regulating the quality of seeds certified in the State. The Organization became operational in January 1975. Since there is scope for increasing the activities, a new division viz., Organic Certification Division has been established in the year 2013 and the Organization is renamed as “Karnataka State Seed and Organic Certification Agency” (**KSSOCA**).

**KSSOCA** is offering both (a) Seed Certification & (b) Organic Certification services separate targets are fixed for both the divisions to undertake the programmes respectively.

Since then, the organization it has been providing excellent service to the Seed Producers, Growers and the Farming community in particular. There has been an upward trend in the Certification Activities year after year and the Area Registered & the quantity of Seeds Certified has increased from **6315** ha. & **56179** qtls. in 1975 to **44846.00** ha. & **518339.68** qtls. in **2018-19** respectively. Various factors have contributed to this manifold increase like awareness amongst the farming community regarding the benefits of use of high quality seeds, encouragement by the State & Central Govts. for production and distribution of high quality seeds, participation of more no. of seed Producers and Growers in Seed Production Programme and also varied agro-climatic conditions and soil types prevailing in the state which are conducive to seed production of various crop varieties.

#### **GOALS**

1. To provide quality certified seeds to the farmers to increase production & productivity;
2. Increase area under seed production and increase the availability of certified seeds to the farmers, thereby increasing the seed replacement rate (SRR);
3. Reduce the percentage of failure of seeds at field, unit as well as lab level;
4. Improve the infrastructure facilities of **KSSCA** for effective and timely certification activities.

#### **OBJECTIVES:**

The following are the main objectives of Seed Certification Agency:

- a) Certify seeds of any notified kinds or varieties (under Section-5 of Seeds Act 1966);
- b) Maintain a list of sources of Breeder & Foundation seeds approved by the Central Seed Certification Board;

- c) Outline the procedure for submission of application for growing, harvesting, processing, storage, labelling and tagging of seeds intended for certification till the end, so as to ensure that seed lots finally approved for certification are true to variety;
- d) Verify, upon receipt of an application for certification that variety is eligible for certification, that the seed used for planting is from approved source and the application has been submitted in accordance with the procedure prescribed for it;
- e) Inspect seed fields to ensure that the minimum standards for isolation, rouging (wherever applicable), use of male sterility (wherever applicable) and similar factors are maintained at all times, as well as to ensure that those provided in the standards for certification;
- f) Inspect seed processing plants to see that the admixtures of other kinds and varieties are not introduced;
- g) Take sample and inspect seed lots produced as per procedure and have such samples tested to ensure that the seed conforms to the prescribed standards for certification;
- h) Grant Certificates (including tags, seals etc.,) in accordance with the provisions of the Seeds Act;
- i) Ensure that action at all stages of seed certification is taken expeditiously;
- j) Undertake educational programmes designed to promote the use of certified seed, including a publication listing certified seed growers and sources of certified seed.

### **Aims and purpose of Organic Division.**

Karnataka State Organic Certification Agency is one of the NAB Accredited certification Body in India. It undertakes Certification of Organic produce as per the NSOP which is being regulated by APEDA, Government of India. To get assurance of the Organic produce, 3<sup>rd</sup> party Certification is needed. Due to conformity of the product, NAB (National Accreditation Body) is accredited the KSOCA to carry out the Organic Certification. As per the Government of India (APEDA) has find the standard for Organic Certification i.e., National standard for Organic product (NSOP). Certified Organic products can be sold in domestic and International market export to European countries. Consumer will conform the integrity of the products by certification and purchased the organic products based on certification.

### **Advantage of Organic Agriculture**

- Improve the soil health, increase the microbial activity in soil.
- Crops get more minerals/Nutrients.
- Maintain the ecological resources.
- Harmless Environment.
- Providing healthy food to human and animals.
- Timely guidance to Organic Farmers is available at KSOCA on Organic Certification

## **Certification Services available at KSOCA are**

- Individual farm certification.
- Group Certification (ICS)
- Wild Collection.

KSOCA is providing the service to Organic Operators at less cost.

## **Organizational Set up:**

The Governing Board is the Apex body of the Agency making decisions on the working of the institution periodically. Sri N.H.Shivashankara Reddy, Hon'ble Agriculture Minister, Govt of Karnataka is the Chairman of Governing Board with other official members from the departments such as Finance, Agriculture, Horticulture, UAS, Bengaluru, Dharwad, Raichur and the Department of Agriculture & Co-operation, Government of India. The Governing Board also consists of three non official members nominated by the State Government.

## **Administrative Set Up:**

The Head Office of the Agency is located at Bengaluru with three Zonal Offices located at Bengaluru, Dharwad and Raichur respectively. The Divisional Offices are located at Bengaluru, Mysore, Davangere, Bellary, Dharwad, Gadag, Raichur, Haveri, Bagalkot, Gulbarga, Bijapur and Bidar. The Agency also has three Seed Testing Laboratories at Bengaluru, Dharwad & Raichur and two Grow-out-Test Centers at R.K.Shala, Anekal Taluk, Bengaluru and Dharwad.

## **Employees Details:**

There are 203 sanctioned posts in the Agency. At present 78 posts are filled and remaining 125 posts are vacant of which 53 Technical and 25 Non-Technical posts pertain to Administrative & Accounts Sections are working. The Agency have also hired the services of 26 Technical and 48 Non-Technical staff on outsourcing to carry out day to day activities of Agency.

## **Physical Progress :**

During the year 2018-19, 44860.00. ha. of area was registered for Certification, and 505472.95 qtls. of Seeds are certified.

There are around 150 Government and Private Seed Producing firms registered in the Agency. 106 Seed Processing Units Registered in Karnataka for processing and grading of seed material produced. The Agency has been certifying seeds of over 25 Crops of 127 varieties in the State. The progress achieved in Certified area and Quantity of seed certified, samples tested in Seed Testing Laboratory and Grow-out-Test are detailed below :

(Area in Ha. Qty in Qtls.)

<b>Year</b>	<b>Regd. Area</b>	<b>Qty. Certified</b>	<b>No. of Seed Samples Analyzed</b>	<b>No. of Grow-out-Test conducted</b>
2018-19	44846.00	518339.68	20226	27868
2019-20	20125.60	4.75	11342	1783

\* Under Progress

#### **Organic Certification Division:**

KSSOCA is undertaking certification of 566 ICS groups under the Savayava Bhagya Yojana scheme which is a very important leading scheme of Government of Karnataka. During 2016-17 KSOCA got the Accreditation and a result of which 204 ICS groups were transferred to KSOCA from Uttaranchala Certification Agency & certification of 362 groups have been taken up through AOCA & ADITI.

#### **Financial Status :**

Service Charges collected for various services rendered by the Agency are the only source of Income for the Organisation. The Income & Expenditure details for the year 2017-18 & 2018-19 are as under.

(Rs. in Lakhs)

<b>Year</b>	<b>Income</b>	<b>Expenditure</b>	<b>Surplus</b>	<b>Deficit</b>
2017-18	911.83	676.45	235.37	-
2018-19	870.39	817.88	52.51	-

Seed Certification Diary 2019 of KSSOCA has been brought out for the benefit of field functionaries involved in Seed Certification activities was released 3<sup>rd</sup> week of January-2019

The Agency wishes to place on record the Co-operation and support extended by the Govt. of India, Government of Karnataka, Department of Agriculture, Horticulture, Finance, Public & private Seed Producers & Bankers in carrying out business of the Agency smoothly. The Agency extends its wishes to M/s. Sridhara & Shastry, Chartered Accountants for timely action in submission of Audit Report.

The Agency also appreciate, the valuable services rendered by all its Officers/Staff in carrying out activities of the Agency successfully under report.

**ANNEXURE-1**

**KARNATAKA STATE SEED AND ORGANIC CERTIFICATION AGENCY**

**Cadre-wise Strength & Vacancy Position**

(As on 31-03-2019)

Sl. No.	Designation	No. of posts Sanctioned	No. of posts filled		Vacant
			KSSOCA Recruitees	By Deputation	
1	Director (Rs. 90500-123300)	01	00	01	00
2	Joint Director (Rs. 74400-19600)	01	00	01	00
3	Deputy Director (Rs. 67550-104600)	04	03	00	01
4	Assistant Director (Rs. 52650-97100)	20	14	00	06
5	Senior Seed Analyst (Rs. 52650-97100)	02	00	00	02
6	Seed Certification Officer (Rs. 43100-83900)	51	10	00	41
7	Seed Officer (Rs. 40900-78200)	10	05	00	05
8	Senior Seed Processing Assistant (Rs. 37900-70850)	22	16	00	06
9	Seed Processing Assistant (Rs.23500-47650)	21	03	00	18
10	Administrative Officer (Rs.40900 -78200)	01	00	00	01
11	Accounts Officer (Rs. 40900-78200)	01	01	00	00
12	Superintendent (Rs.37900-70850)	06	00	00	06
13	Senior Office Assistant (Rs.27650-52650)	06	03	00	03
14	Stenographer (Rs.27650-52650)	01	01	00	00
15	Office Assistant (Rs.21400-42000)	13	07	00	06
16	Typist (Rs.21400-42000)	02	00	00	02
17	Receptionist/Telephone Operator (Rs.27650-52650)	01	00	00	01
18	Senior Driver (Rs.27650-52650)	02	01	00	01

Sl. No.	Designation	No. of posts Sanctioned	No. of posts filled		Vacant
			KSSOCA Recruitess	By Deputation	
19	Driver (Rs. 21400-42000)	11	03	00	08
20	Attender (Rs. 18600-32600)	15	06	00	09
21	Group "D" +Watchman (Rs. 17000-28950)	12	03	00	09
	<b>Total</b>	<b>203</b>	<b>76</b>	<b>02</b>	<b>125</b>

### **Abstract**

**a. By Deputation** - 02

**b. Agency Staff** - 76

- **78**      **Other Outsourced services through Security**

#### **Services Agencies**

Vacant Posts - 125

**Grand Total** - **203**      Computer Operator cum office Assistant - 16

Drivers - 12

Group 'D' - 16

Seed Certification Officer - 26

Administrative Officer - 01

Night Watchman - 03

**Total** - **74**

## **KARNATAKA STATE AGRICULTURAL PRODUCE PROCESSING AND EXPORT CORPORATION LIMITED (KAPPEC)**

**Karnataka State Agricultural Produce Processing and Export Corporation Limited (KAPPEC)** was established on 22<sup>nd</sup> April 1996 under the Companies Act, 1956. The Authorized Share Capital is Rs.500 lakhs and the Paid up Share Capital is Rs. 50 Lakhs. The Government of Karnataka has released an amount of Rs.1000 lakhs as one time grant to facilitate establishment of post harvest infrastructure facilities in the potential locations of the State.

### **Main Objectives:**

- ⇒ To develop and promote the production, processing and export of agriculture, horticulture, floriculture & allied products.
- ⇒ To create post-harvest infrastructures to facilitate the development and export of agricultural and allied products and also to promote private sector participation in this sector.
- ⇒ To conduct seminars & workshops involving farmers, scientists, exporters and related stakeholders to create awareness among farmers to grow export quality produce and also the potential benefits thereon.
- ⇒ To act as the nodal agency of the Government to operate schemes related to infrastructure facilities or any other activity assigned by the Government from time to time.
- ⇒ To guide farmers, budding entrepreneurs, farmers' associations and related stakeholders about starting export business and also setting up processing units in the State.

KAPPEC has been creating post harvest infrastructure facilities like Pack house, Pre-cooling unit, Cold Storage, Refrigerated Van, Warehouses etc., in different parts of the State for the benefit of farmers and exporters. Details of Post Harvest Infrastructure facilities established / being established are as under:-

- 1) Cold chain facility consisting of pack house, pre cooling unit, refrigerated van at Bijapur and Kushtagi to facilitate the export and storage of Grapes, Pomegranates, Lime and other horticulture commodities such as raisins, lime, grains and pulses. The facility is in operation.
- 2) Integrated cold chain facility at Hubballi and Bagalkot to facilitate the export & storage of Mango, Grapes, Pomegranates and other agriculture & horticulture produce. The facility is in operation.
- 3) Cold storage with a total capacity of 4000 Mts. at Vijayapura for the storage of Raisins. The facility is being utilized fully.
- 4) 1000 Mts. capacity cold storage facility at APMC Yard, Gadag to facilitate the storage of Chilly, Green Gram and other agriculture and horticulture produce. The facility is running.

- 5) 6300 Mts. capacity Warehouse facility at Hubballi APMC Yard as per WDRA standards to facilitate the storage of agriculture commodities ready for use. Additional warehouse of about 2500 Mts. capacity in the same premises is also ready for use.
- 6) Cold chain facility at Humnabad in Bidar District to facilitate the export & storage of Grapes, Pomegranates, Lime and other horticulture produce. The project has been completed and ready for use.
- 7) 2780 Mts. capacity Warehouse facility at KIADB Industrial Area, Humnabad in Bidar District to facilitate the storage of agriculture commodities. The project has been completed and ready for use.
- 8) 5420 Mts. capacity Warehouse facility at KIADB Industrial Area, Vijayapura to facilitate the storage of agriculture commodities. The project has been completed and ready for use.
- 9) Establishment of 3750 Mts. capacity Warehouse facility at KIADB Industrial Area, Bagalkot as per WDRA standards to facilitate the storage of agriculture commodities. The project has been completed and ready for use.
- 10) Cold chain facility in Kudachi (Belgaum District) for the benefit of M/s. The Raibag Taluka Grape Growers Processors and Exporters Co-operative Society Ltd., Kudachi with financial assistance of APEDA. KAPPEC has no financial stake in this project. The project has been completed and ready for use.
- 11) Participated in the equity to an extent of Rs.169 Lakhs for the establishment of Fruit and Vegetable Processing (Individual Quick Freezing) unit near Hubballi under Public Private Partnership in the name and style of M/s. Tropicool Foods Pvt. Ltd. The company is buying required horticulture produce from farmers directly for processing and exports.
- 12) Integrated Cold Chain Facility at Poojenahalli Horticulture Farm, Devanahalli near Bengaluru International Airport for the export of fresh fruits, flowers, vegetables and other horticulture produce. Tender process has been completed and work order has been issued for the establishment of Integrated Cold Chain Facility.
- 13) 2800 Mts. Multichamber Cold Storage Facility at APMC Yard, Gadag. Tender process is on.

The post harvest infrastructure facilities stated above are established / being established by availing financial assistance from Rashtriya Krishi Vikasa Yojana (RKVY), Agricultural & Processed Food Products Export Development Authority (APEDA), Assistance to States for Developing Export Infrastructure & other allied activities (ASIDE), National Horticulture Mission (NHM) and the Govt. of Karnataka and also the one time grant received from the Government of Karnataka.

\* \* \* \* \*

# **KARNATAKA STATE PULSES ABHIVRIDHI MANDALI LIMITED., KALABURGI.**

**(Formerly known as Karnataka Togari Abhivridhi Mandali Ltd..)**

## **Annual Report for the year 2018-19**

### **ESTABLISHMENT :**

The Karnataka Togari Abhivridhi Mandali Limited is established under Companies Act, 1956 on 13.05.2002 vide Government Order No. AHD 399 MS 99 Bangalore Dated 15.03.2002.

The name of the company has been changed from Karnataka Togari Abhivridhi Mandali Ltd. to '**Karnataka State Pulses Abhivridhi Mandali Ltd.**' with effect from 14-11-2018.

### **BUDGET :**

The Government of Karnataka released Rs. 5.00 crores as share amount during 2002., and further on 31.1.2007 State Government has released an amount of Rs. 285.00 lakhs for Market Intervention Program, Rs. 10.00 lakhs for Research and Development Activities, and Rs. 5.00 lakhs for Extension activities of the Board.

### **OBJECTIVES :**

1. Encourage to grow, different varieties of Tur, and other pulses seeds, procure, stock and market. further the objectives of Board is to finance, assist the farmers.
2. Tur and other pulses seeds, increase of their production and, assist, develop and to encourage marketing etc.
3. To encourage research activities conducted by Agriculture Universities. and to advise the farmers to adopt appropriate technology
4. To facilitate in increasing the production, productivity and quality of tur produce by conducting seasonal trainings at field, taluka and district levels involving farmers and scientists.
5. To promote research activities conducted by the Universities, National research centers and companies and assist farmers to adopt available appropriate technology.
6. To act an agent of Govt. of Karnataka in the exploitation of the potential of Togari and other pulses of crops.

### **ACTIVITIES :**

1. Conducting trainings to farmers.
2. The updated research on technology disseminated to the farmers.
3. To coordinate in Seed Production programmes.
4. Purchase tur directly from the farmers under Minimum Support Price Scheme.

5. During 2016-17 Govt. of India has accorded sanction under PSF for purchase of FAQ Tur by fixing minimum support price of Rs. 5050/- per quintal. on the same line Govt. of Karnataka has also announced incentive of Rs. 450/- per quintal for the farmers. Accordingly Karnataka Togari Abhivridhi Mandali has actively participated in purchase tur limited to Kalaburgi Dist. Jurisdiction on behalf of the National Agricultural Federation of India (NAFED). During the year 2016-17, Karnataka Togari Abhivridhi Mandali has procured the 3,68,251 quintals of Tur directly from the farmers in different places of village, hobli, taluka, as well as district level to help the needy rural farmers in particular.

The provision for payment of Rs. 2025380500.00 has been made to the farmers through RTGS.

### **STRUCTURE OF THE BOARD :**

As per Articles of Association under Article 13 there is a provision to induct a maximum of 17 Board of Directors of this organization comprising Official Directors (12), Non Official Directors - farmer representatives (5). The present structure is as under:

<b>Sl. No.</b>	<b>Designation</b>	<b>Name</b>	<b>Remarks</b>	<b>Remark</b>
1.	Chairman KTAML Kalaburgi	Sri. Bhagana Gouda Patil	Chairman	01-04-2018 to 26-07-2018
		Sri. Shivashankar Reddy	Minister for Agriculture and Chairmen	02-08-2018 to 31-03-2019
2.	Agriculture Commissioner Bangalore	Sri. G. Satish IFS	Director	
3.	Deputy Commissioner Kalaburgi	Sri. Venkateshkumar IAS	Director	01-04-2018 to 31-03-2019
4.	Project Director, ARS Kalaburgi	Dr. R.C. Gundappagol	Director	01-04-2018 to 31-03-2019
5.	Regional Manager, NABARD Kalaburgi	Sri. Ramesh Bhatt	Director	01-04-2018 to 31-03-2019
6.	Chief Manager - Lead Bank (SBI) Kalaburgi	Sri. C H Hawaladar	Director	01-04-2018 to 31-03-2019
7.	Divisional/Asst. General Manager, KSCMF Kalaburgi	Sri. Pradeep	Director	01-04-2018 to 31-03-2019
8.	Secretary, APMC Kalaburgi	Smt. Rajashree M S	Director	01-04-2018 to 31-03-2019
9.	Joint Director of Agriculture, Kalaburgi	Sri. . Retendranath Sugur	Director	01-04-2018 to 31-03-2019

<b>Sl. No.</b>	<b>Designation</b>	<b>Name</b>	<b>Remarks</b>	<b>Remark</b>
10.	Non Official Member	Sri. Vishwanath Beerappa Nillalli	Director	01-04-2018 to 26-07-2018
11.	Non Official Member	Smt. Kamalabai Chandappa	Director	01-04-2018 to 26-07-2018
12.	Non Official Member	Sri. Savirappa Jatteppa Pujari	Director	01-04-2018 to 26-07-2018
13.	Non Official Member	Sri. Moulappa Pakirappa	Director	01-04-2018 to 26-07-2018
14.	Non Official Member	Adeppa Kanakappa Naik	Director	01-04-2018 to 26-07-2018
15.	Managing Director Karnataka State Pulses Abhivridhi Mandali Ltd Kalaburgi	Sri. K Ramappa	Managing Director	05-04-2018 to 26-11-2018
		Sri. Retendranath Sugur	Managing Director (Incharge)	27-11-2018 to 31-03-2019

**PERSONNEL - Working strength :**

<b>Name of the Post</b>	<b>Present status</b>
Managing Director	1) Sri. K Ramappa 05-04-2018 to 26-11-2018 2) Sri. Retendranath Sugur 27-11-2018 to 31-03-2019
Marketing Officer / Agriculture officer	M.Sc. Agri Degree Holder has been taken temporarily on Contract Basis, paying consolidated salary.
Administrative Officer	Retired Administrative officer from Agriculture department has been taken by paying consolidated salary on temporary basis.
Superintendent/ Accountant	MBA (Finance & HR) graduate having a computer with Tally system experience, has been taken on consolidated salary on temporary basis.
Second Div Asst	Sri. Shivasharanappa a candidate appointed on compassionate grounds as SDA from Department of Agriculture. and deputed to the Tur board Kalaburgi on deputation basis.
Computer Operator (2)	Persons having knowledge of computer have been taken on consolidated salary on temporary basis.
Stenographer	Vacant
Group-D (2)	One person is working on contract basis on consolidated salary.
The above posts are approved in the Board Meetings of the Mandali.	

## **MARKET INTERVENTION PROGRAMME :**

The Karnataka Togari Abhivridhi Mandali was established to protect the interest of pulses growing farmers of Karnataka in general and tur growing farmers in particular. Under market intervention programme., the Mandali does direct purchase of tur from farmers to stabilize the market price on the produce. Depending on the financial assistance extended to the Mandali, hitherto the market intervention operations are being done only in Kalaburgi, Bidar and Yadgir districts.

The Market rate of the tur during the year 2014-15 was above the MSP hence no procurement of Tur was made during year 2014-15. Accordingly procurement of tur made during 2013-14 was 2,51,012 qtls. and the same were sold out during 2014-15 at the competitive rates and an amount of Rs. 127 crores released. amount released from revolving fund has already been refunded to Marketing Board from 2002-03 to 2014-15.

Due to increase in market prices tur procurement could not under taken during the year 2014-15 & 2015-16

Procurement details from 2002-03 is as under:

<b>Year</b>	<b>Releases</b>	<b>Quantity in qtls.</b>	<b>Cost of Tur (Loose value)(Rs)</b>
2002-03	50000000*	667.000	1043376.00
2004-05	150000000***	57489.690	103737640.00
2005-06	0	67685.340	114976746.20
2006-07	28500000**	0.000	0.00
2007-08	0	60.000	133004.00
2008-09	30000000***	0.000	0.00
2009-10	0	9745.000	40165311.00
2010-11	0	9248.000	37210540.00
2011-12	220000000****	55115.400	220461600.00
2012-13	250000000***	53484.000	240678000.00
2013-14	1370000000****	251012.000	1255060000.00
2014-15	0	0.000	0.00
2015-16	0	0.000	0.00
2016-17 *****	Central RS. 185,96,67,550 State Rs. 16,57,12,950.00	367555.50	2021555250.00

<b>Year</b>	<b>Releases</b>	<b>Quantity in qtls.</b>	<b>Cost of Tur (Loose value)(Rs)</b>
2017-18	Central @ 5450 & State & 550 = Rs. 6000/- qtl. Rs. 173,46,15,000.00	289102.50	173,46,15,000.00
2018-19	Central @ 5675& State & 425 = Rs. 6100/- qtl. Rs. 68,13,63,900.00	111699.00	68,13,63,900.00

\* Released as share capital money.

\*\* Released by Government for procurement operations.

\*\*\* Released from Revolving Fund for procurement operations.

\*\*\*\* Released from Revolving Fund as loan for procurement operations.

During 2016-17 Karnataka Togari Abhivridhi Mandali Limited has procured 368251 qtls. of Tur directly from the farmers on behalf of the NAFED Government of India accordingly Tur board has purchased and deposited 368251 qtls. Tur in the central/State warehouse as per their directions from this procurement activities Tur board has earned Rs. 1,27,73,707/- as commission at the rate of 0.75% as fixed by the NAFED and out of this, Tur board has also paid commission at Rs. 0.324% to the sub agencies. i.e., Primary Agriculture Co-operative Society.

#### **Karnataka Togari Abhivridhi Mandali procured Tur During 2016-17 Under Buffer Stock programme of FAQ Tur Under P.S.F. :**

During 2016-17 Govt. of India has accorded sanction under PSF for purchase of FAQ Tur by fixing minimum support price of Rs. 5050/- per qtl. on the same line Govt. of Karnataka has also announced incentive of Rs. 450/- per quintal for the farmers. Accordingly Karnataka Togari Abhivridhi Mandali has actively participated in purchase of tur limited to Kalaburgi Dist. on behalf of the National Agricultural Federation of India (NAFED). During the year 2016-17, Karnataka Togari Abhivridhi Mandali has procured the 3,68,251 quintals of Tur directly from farmers in different places of village, hobli, taluka, as well as dist. level in helping to be needy rural farmers in particular.

The provision for payment of Rs. 2025380500.00 has been made to the farmers through RTGS.

This Tur procurement programme has been carried out sincerely, efficiently, and successfully without any hindrance.

#### **Karnataka Togari Abhivridhi Mandali procured Tur During 2017-18 Under PSS of FAQ Tur. :**

During 2017-18 Govt. of India has accorded sanction under PSS for purchase of FAQ Tur by fixing minimum support price of Rs. 5450/- per quintal. Vide govt. order dated. 21-

12-2017. on the same line, Govt. of Karnataka has also announced for payment of incentive to farmers at Rs. 550/- per quintal for the farmers . Accordingly Karnataka Togari Abhivridhi Mandali has actively participated purchase tur from Kalaburgi dist. as well as in Yadgiri dist. on behalf of National Agricultural Federation of India (NAFED)

As per the direction and guidance of the Deputy commissioner of Kalaburgi and Chairman of Dist. Taskforce committee Kalaburgi, in Kalaburgi dist. 24 Tur purchase centers has been established and tur procurement started through Primary Agriculture Co-operative Societies. as per the direction of the NAFED registration of farmers commenced from 1-1-2018 and ended 14-01-2018, accordingly tur purchased started from 15-1-2018 in 24 tur procurement centers and ended on 28-03-2018. In Kalaburgi dist. total 246895.50 qtls. of Tur purchased to extent of Rs. 148,13,73,000/- and made the payment to the farmers through the online.

On the same line in the Yadgiri dist. also 42207 qtls. of tur purchased from the farmers directly and made the payment through online to the extent of Rs. 24,32,42,000/. In this way Karnataka Togari Abhivridhi Mandali has carried out the tur procurement activities on behalf of the NAFED honestly, sincerely and efficiently.

As per the proceedings of the Government dated :28-11-2018 has accorded permission for change of name as “Karnataka State Pulses Abhivridhi Mandali Ltd” Accordingly the Board in its 15<sup>th</sup> Annual General Meeting Held on 11-09-2018, discussed in length for Amendment of AOA and MOA and submitted the proposal to the Registrar of Companies for change of name as **“Karnataka State Pulses Abhivridhi Mandali Limited”** Kalaburgi. Accordingly, registrar of companies in his E-mail [MCAADM@mca.gov.in](mailto:MCAADM@mca.gov.in) dated : 14-11-2018 issued certificate by changing the name **“Karnataka State Pulses Abhivridhi Mandali Limited”** with effect from 14-11-2018.

During 2018-19 Government of India has accorded sanction under PSS for purchase FAQ Tur by fixing minimum support of rupees 5,675/- per qtl vide Government order 22-12-2018, on the same line government of Karnataka has also announced for payment of incentive to farmers at the Rate of 425/- per qtl in the interest of the farmers as a whole. Accordingly Karnataka State Pulses Abhivridhi Mandali Ltd has actively participated for purchase of Tur in Kalaburgi District as well as in Yadgiri District on behalf the National Agriculture Federation of India (NAFED) and Food Corporation of India (FCI) respectively. As per direction and guidance of the Deputy Commissioner and Chairmen of District taskforce committee Kalaburgi and Yadgir. In Kalaburgi District 22 Tur purchase centers and 3 tur procurement centers at Yadgir District has been established and Tur procurement started and done. Through Primary Agriculture Co-operative Societies. As per direction of Nafed, the registration of farmers commenced from 1-1-2019 and ended 10-04-2019. Accordingly Tur purchase started from 16-01-2019 in 22 tur procurement centers in kalaburgi district and 3 procurement centers in yadgir district and procured tur the directly from 18,788 farmers from kalaburgi district and 1,298 farmers from yadgir district respectively. In Kalaburgi, 1,05,855 qtls and in Yadgir District 5,843.50 qtls of tur purchased. In all tur Board has purchased total 1,11,698.5 qtls of tur and made payment to

the farmers to the extent of Rs. 68,13,60,850.00 and stock have been deposited in the Central/ State Warehouses as per the directions of NAFED.

The payment made to the farmers through Aadhar linked online payment NeML Portal.

#### **Other Activities :**

- Trainings were conducted during 2005-06 (27), 2006-07 (13), 2007-08 (41) and 2008-09 (Field demonstration in 13000 ha).
- During 2003-04 initiated research oriented work with UAS Scientists.
- During 2007-08 and 2008-09 Seed Production programme was done.
- Due to Scarcity of funds and unavailability of man power in the Mandali these programmes could not be continued.

#### **Benefits to Farmers :**

1. Due to implementation of one of the prime objective i.e. ‘Market Intervention’ the market price of tur was stagnated at each instance, and as such, the farmers were able to get considerable increase in the market price to the tur grown by them.
2. By imparting training to the farmers they have been benefited with new techniques of farming.
3. During 2008-09, the Mandali conducted demonstrations under selected villages. This operation had increased yield of 2-3 qtls of tur per acre. The participants were able to get considerable benefit out of demonstrations.
4. Under publication programme the Mandali got printed and made available to the farmers - Improved Agricultural Practices in Tur cultivation, major insect pest and their control measures in Tur cultivation, major diseases and their control measures in tur cultivation, seed production technology of Tur, and low cost yield technology in growing tur - have improved the knowledge of Tur growing farmers.
5. Payment made directly to the farmers Bank accounts through RTGS during 2016-17. In 2017-18 also online payment made through NeML Portal. During 2018-19 payment was done through Aadhar Enabled Payment System (AEPS). In this way procurement operations have taken place to avoid interference of middle men and to reach the actual beneficiaries, directly.

**Budget provision made for the year 2019-20 for Maintenance  
of Salary of officer / Staff and office expenditure for the  
Karnataka State Pulses Abhivridhi Mandali Ltd. Kalaburgi**

<b>Sl.No.</b>	<b>Particular</b>	<b>For One Year</b>	<b>Amount</b>
1)	Pay of officer (MD)	1,33,236x12	15,98,832-00
2)	Pay of establishment	27,322x12	3,27,864-00
3)	Salary of Staff working on contract basis	99,000x12	11,88,000-00
4)	Pay and other allowance of Chairman	55000x12	6,60,000-00
5)	Pay of Chairman's establishment	40,000x12	4,80,000-00
6)	Fuel charges of Chairman's car		4,60,000-00
7)	Maintenance of Chairman's car		4,00,000-00
8)	Maintenance and Fuel Charges of MD Car		4,60,000-00
9)	Office Expenses		4,00,000-00
10)	Office Building Rent		3,00,000-00
11)	Office Phone Expenses		1,00,000-00
12)	Tour Expenses of Chairman's		6,00,000-00
13)	Tour Expenses of Managing Director		3,00,000-00
14)	Board of Director's meeting Expenses	4 Meeting's	2,00,000-00
15)	Director's meeting Sitting Fees, Tour, and accommodation Expenses	4 Meeting's	8,00,000-00
16)	Auditor Fee		2,50,000-00
17)	Company Secretary Salary		5,00,000-00
	<b>Total</b>		<b>90,24,696-00</b>

## **KARNATAKA AGRO INDUSTRIES CORPORATION LIMITED**

### **1. Establishment, capital holding and establishment purpose of KAIC:**

Karnataka Agro Industries Corporation Limited (KAIC) was established in 1967 with equity participation of 51% by Government of Karnataka (GoK) and 49% from Government of India (GoI) to promote agriculture in the State in consonance with the national policy on the development of agriculture in the country, aimed at providing the entire agriculture related supplies and services to the farming community to assist them in taking up agriculture on a more systematic, scientific and cost effective manner. KAIC is fully owned by the GoK with effect from 15-03-2001 on transfer of 49% GoI shares to GoK.

### **2. Financial assistance extended by GoK for settlement of VRS benefits to VRS optees:**

As per G.O. No.DDPER 55 ARU 2003 dated 03-09-2003, GoK has accorded approval for closure of KAIC and to offer VRS 2003 to all its 656 employees with immediate effect. Accordingly, all the employees have opted for VRS 2003 and they were relieved from the services in batches from September 2003 to July 2004. All the activities of KAIC have been stopped and all the unit/branches have been closed with effect from 15-07-2004. The GoK released financial assistance of Rs.49,39,34,883-00 towards settlement of VRS, retirement benefits and PF contributions in nine separate G. Os issued from 26-12-2003 to 31-12-2007 over a period of 4 years as against settlement of VRS benefits within 30 days from the date of relief of the employees as stipulated in VRS scheme designed by GoK although such amount released to other State Government undertakings has been treated as grant. As such, when the ex-employees approached courts to direct KAIC to pay interest for the period of delayed payment, the court ordered for payment of interest at different rates. However, KAIC settled interest uniformly @ 6% p.a. with administrative approval. KAIC has requested the GoK to set off the above amount released as loan, interest and penal interest towards the guidance value Rs.685 crores of 21 immovable properties of KAIC transferred / to be transferred to GoK and physical possession handed over / to be handed over.

### **3. Closure processes of KAIC:**

The Commissioner for Agriculture, Department of Agriculture, is the ex-officio Managing Director, who, with the assistance of only four persons engaged on temporary basis, is carrying out further process of closure under the guidance of the Board of Directors.

## **THE MYSORE TOBACCO COMPANY LIMITED**

### **Annual Report to Government**

The Mysore Tobacco Company is a Government of Karnataka Enterprise coming under the Ministry of Agriculture. It was established in 1937.

Tobacco Board was established in 1980 and started its activities in Karnataka in 1983. All activities of MTC were shifted to Tobacco Board. Hence, the Government in 1984 directed MTC to stop all commercial activities

The Company is having 95.15% Government Shares and 4.85% Private Shares. The Company is getting rent from the godown rented to Karnataka State Beverages Corporation. A portion of Head Office is rented to M/s KAPPEC Ltd.,

The Secretary to Government, Agriculture Department, is the Chairman of the company.

The State Government has purchased Company's shares held by Private Shareholders at the rate of Rs. 1,479/- per share for making the Company a 100% Government Company. M/s KAPPEC was authorized to purchase shares from Private Shareholders on behalf of Government. 20,543 private shares were purchased and transferred to Government of Karnataka on 16.08.2017.

The State Government vide Order No. Kru E 146 Vu E 2014 dated 16.01.2015 has approved transfer of MTC's properties at Bangalore (Head Office) and factory at Kadugodi to M/s KAPPEC for making use of the same in the best interest of public. M/s Karnataka Agro Industries Corporation has transferred 1,10,515 shares they were holding in MTC in favour of M/s KAPPEC. MTC has taken steps for D-Mat of Shares. Soon after the process is completed, the Shareholding of KAIC will be transferred to KAPPEC.

## **FOOD KARNATAKA LIMITED**

### **Economic Survey 2018-19 (Ready reference)**

#### **9.8.1. Status of Implementation of Food parks:**

##### **I. Status of Implementation of Food parks:**

Food Karnataka Ltd., has been nominated as the nodal agency to look after the implementation at the following Food Parks in the State. Ministry of Food Processing Industries, Govt of India, under the 10<sup>th</sup> five year plan had approved the establishment of food parks in Malur (Kolar District) Hiriyur (Chitradurga District) Bagalkot (Bagalkot District) and Jewargi (Gulbarga District) to give impetus to value addition to agriculture and horticulture produce. The status of implementation of these food parks are as detailed below:

- 1. M/s. Innova Agri Bio Tech Park Limited, Malur:** This Food Park is being developed in an area of 87 acres of land in KIADB Industrial Area Malur, Kolar District. Development of land and laying of roads, drains etc, have been completed Common infrastructure facilities such as cold storage, ware house, sorting, grading, dal processing, packaging plant have been developed. To compliment the activities a gamma irradiation facility has been installed and the same is in the process of getting accreditation from USFDA. 50.48 acres in the park has been allotted/earmarked to 13 food processing units. The balance land available for allotment is 3.08 acres. The total project cost reported by the company as on 09.08.2016 is Rs. 2315 lakhs. The Government of India and Government of Karnataka have sanctioned and disbursed grant of Rs. 400 lakhs each respectively (Total Rs. 800 Lakhs) given.
- 2. M/s. Green Food Park Limited, Bagalkot:** This Food Park is being developed in an area of 100 acres of land at Navnagar KIADB Industrial Area, Bagalkot. Land development, laying of roads, drains, etc. Completed a common infrastructure facilities such as cold storage grading, sorting, packaging machines, weigh bridge facilities have been installed and completed. The civil works for the buildings ware house, administrative block and R&D centre have been completed. The implementing agency has allotted 52.5 acres of land for 18 food processing units/ companies and the balance land available for allotment is 2.25 acres. The total project cost reported by the company as on 08.09.2014 is Rs. 2241.05 lakhs. The Government of Karnataka has released an amount of Rs 400 Lakhs and Government of India has released an amount of Rs. 300 Lakhs so far as against the total sanctioned amount of Rs. 800 lakhs. (Rs. 400 Lakhs Government of Karnataka and Rs.400 Lakhs Government of India) subsidy was given.
- 3. M/s. Akshaya Food Park Limited, Hiriyur:** This Food Park is being developed in an area of 106 acres and 37 guntas of land at Huchavanahally village, HiriyurTaluk, Chitradurga District. Land development and laying of roads, drains etc, have been completed. Common facilities such as cold storage, warehouse, sorting, grading, Dal processing and two lines of packaging machines for food-grains, oilseeds and spices been

installed. The total project cost is reported by the company as on 23.2.2011 Rs. 1886.89 lakh. The Governments of India and Government of Karnataka have, sanctioned and disbursed grant/un-secured loan of Rs. 400 lakhs. each respectively

**4. M/s. Jewargi Agro Food Park Limited, Jewargi:** This Food Park is being developed in an area of 105 acres of land. Land development laying of roads, drains is completed. The warehouse is under construction. The total project cost reported by the company as on 21.09.2016 is Rs. 2507 lakh. So far the Government of Karnataka has released Rs. 300 Lakhs and Government of India has released Rs. 200 lakh each as against Rs 400 lakhs from Government of Karnataka and Rs 400 Lakhs from Government of India. The balance amount has been mobilized by the implementing agency. The developer has stated that they have allotted land to 113 entrepreneur to start food processing units.

**II. Food Parks under the State Scheme:** As part of the State Budget 2008-09, the Government of Karnataka had approved the establishment of food parks in six districts i.e., Bangalore (Rural), Tumkur, Shimoga, Davanagere, Bijapur and Belgaum.

The present status is as under:-

1. **Shimoga Food Park:** M/s. LMJ International Limited has been selected as the developer for establishing the food park in an area of 100 acres of land at Sogane Village in NidhigeHobli, Shimoga District. In view of the very slow progress of the earlier food parks, the Government is examining the handing over of land to the developer
2. **Bijapur Food Park:** 75 acres of land acquired by the Deputy Commissioner, Bijapur at Ittangihala in Bijapur District has been allotted to Food Karnataka Limited for the proposed food park. The Government is yet to decide on whether to call for bids for the selection of developers in view of Luke worm progress of other food parks.
3. **Spice Park at Byadagi Haveri District:** The State Government has approved the establishment of a Spice Park at Byadagi in Haveri district. Food Karnataka Ltd has invited twice calling expression of interest from the private developers. However, there was no response. An amount of Rs.100 lakhs has been given to KIADB for acquiring land to set up the Park.

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# **UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE**

## **Annual Report : 2019-20 (till February, 2020)**

### **I. Education**

The University has six teaching campuses, with a territorial jurisdiction of 10 Southern districts of Karnataka to carry out the mandates activities of the University viz., teaching, research and extension in the areas of agriculture and allied sciences. Presently, the University offers six Bachelor degree programmes viz., B.Sc. (Agriculture), B.Sc. (Sericulture), B.Sc. (Agricultural Marketing & Cooperation), B.Tech. (Biotechnology), B.Tech. (Agri. Engineering) and B.Tech. (Food Science & Technology). University also offers Masters' degree programme in 22 disciplines and Ph.D. programme in 15 disciplines.

#### **Salient Achievements:**

- UAS-B secured first position in JRF examination conducted by ICAR, New Delhi in Agriculture Sciences and Engineering & Technology streams for PG admissions during 2019
- International Centre (IC) has been established at the Directorate of Student Welfare, GVKV, Bengaluru to coordinate all the international activities of the University
- Students of UAS participated in the 20<sup>th</sup> All India Inter Agricultural University Youth Festival held at Indira Gandhi Krishi Vigyana, Raipur and secured 1<sup>st</sup> place in Folk Dance and Mono acting
- Prof. Nanjundaswamy Research Chair has been established to undertake need based research and outreach activities to address emerging issues in agriculture
- University of Agricultural Sciences, Bangalore was awarded FIVE STAR institution by the Department of Higher Education, GoK in the category of Specialist University
- AICRP on Agro-meteorology, Bengaluru centre was conferred with an Award of Excellence for the year 2019 for outstanding dissemination and outreach of Agromet Advisories by the Indian Meteorological Department, GoI
- University has developed UGAM App, for online payment of fees and paperless semester registration by the UG students
- 107<sup>th</sup> Indian Science Congress was organised at University of Agricultural Sciences, GVKV, Bengaluru from 3-7 January, 2020 inaugurated by Shri Narendra Modi Ji, Hon'ble Prime Minister of India on 3<sup>rd</sup> January, 2020 in the august presence of Shri B.S. Yediyurappa, Hon'ble Chief Minister, GoK and Dr. Harsh Vardhan, Hon'ble Union Minister of Science & Technology, Earth Sciences and Family Health & Welfare, GoI

**Admissions during the Academic Year 2019-20:** During 2019-20, 956 Candidates were admitted to Bachelor's Degree Programme of which 107 were ICAR students and 51 were NRI students. 319 candidates were admitted to Master's Degree Programmes of which 77 were ICAR/JNU, four NRI students and two foreign students. For the Doctoral Degree Programmes 125 candidates were admitted including 23 from ICAR and three foreign

students. For the two year Diploma course offered at College of Agriculture, Mandya, 50 candidates were admitted.

**Scholarships Awarded:** UAS-B has Awarded 80 UAS Resident Merit Scholarships, 406 General Merit Scholarships and 08 Donors Scholarships to students pursuing Under Graduate Degree Programme. For students pursuing Master's Degree programmes, 78 University Resident Merit Scholarships and 04 Donor Scholarships were awarded. For students Pursuing Ph.D. Degree Programmes, 24 University Resident Merit Scholarships were awarded.

**Degrees to be Awarded:** During 2019-20, 638 Under Graduates, 280 Post Graduates and 68 Ph.D. students have passed out and the degrees would be awarded during the ensuing 54<sup>th</sup> Convocation scheduled to be held during last week of March, 2020.

## II RESEARCH

**Commercialization of Technologies:** Sixteen technologies have been approved for commercialization.

- ✓ Five Food based products (High Fibre Nutri Mix, Coconut flour cookies, Coconut Masala Biscuit, Coconut Cake and Coconut Rusk), Three Equipment's (High Capacity Tamarind Fruit Dehuller, Pongamia Decorticator and Sunflower Dehuller) and One Crop based technology (KRH-4:Rice Hybrid) have been commercialized through NRDC, GOI, New Delhi.
- ✓ Six Food based products (Finger Millet Vermicelli, Finger Millet Vermicelli With Ashwagandha Root Powder, Finger Millet Vermicelli With Madhunasin Leaves Powder, Finger Millet Vermicelli With Jamun Fruit Seeds Powder, Finger Millet Vermicelli With Germinated Fenugreek Seeds Powder, Finger Millet Vermicelli With Amruthballi Leaves Powder), One Crop based technology (Maize Hybrid: MAH 14-5) have been sold directly by UAS, Bangalore.
- ✓ High Fibre Nutri Mix and Coconut flour cookies have been commercialized through NRDC, GOI, New Delhi and also have been sold directly by UAS, Bangalore.

**Seed production:** National Seed Project, UAS, Bengaluru has undertaken breeder and quality seed production in an area of about 1,242 ha with a target of 19,042 quintals during 2019-20 in different crops. A total of 868.5 quintals of breeder seed and 15,500 quintals of quality seeds have been produced during 2019-20.

## III. EXTENSION

The Directorate of Extension is vested with the responsibility to carry out the extension services in 10 districts of Southern Karnataka as complementary and supplementary to the extension activities of developmental departments. During 2019-20, the Directorate through its different units conducted 308 training programmes and trained 13934 farmers/farm women / Rural youth. In 22 batches 841 extension functionaries and 1156 officials of different line departments have been trained. In 12 batches, 478 Agriculture Input Dealers have been trained through DAESI programme. In addition, 16 On-farm Testing in 22 acres, 58 Front Line Demonstrations in 195.70 hectares, 113 method demonstrations, 37 field

days, 699 field visits, 16 Bi-monthly workshops, 21 exhibitions were conducted. 490 short messages were sent to 203510 farmers by all the KVKS. Put together all the KVKS have analyzed 3494 soil samples and 1532 water samples. ATIC and KVK's provided consultancy to 18464 farmers, produced and sold 36.41 quintals of seeds and 76680 saplings. Skill Development programmes of 25 days sponsored by ASCI and 6 days duration training programmes sponsored by MANAGE were also conducted at KVKS. One year Diploma in Agriculture (214 students), Certificate Course on Organic Farming (30 students), Integrated Farming System (31 students), Post Graduate Diploma in Agriculture (14 students), Post Graduate Diploma in Agricultural Extension (103 students) were organized by Distance Education Unit. Six Bakery Technology /Product Commercial Baking Course, 05 Certificate course, 04 Summer Special course and 39 orientation programmes were organised by Bakery Training Unit. The University of Agricultural Sciences, Bangalore organized Krishimela from 24-27 October, 2019 at GKV, Bangalore with the theme 'Precision Farming for Sustainable Development' in collaboration with Development Departments of GoK, Farm Universities, ICAR Institutes and Private & Public Sector Organizations wherein nearly 14.5 lakhs of people participated

#### **Photographs depicting activities:**



Hon'ble Prime Minister inaugurating I-STEM portal during 107<sup>th</sup> ISC at GKV



Hon'ble Chief Minister releasing technologies at GKV during Krishimela-2019



Cowpea variety PGCP 6 released during 2019



Sugarcane variety COVC 16062 released during 2019

# **UNIVERSITY OF AGRICULTURE SCIENCES, DHARWAD**

## **BRIEF ANNUAL REPORT FOR THE YEAR 2019-20**

### **TEACHING ACHIEVEMENTS:**

During the year 2019-20, University has admitted 1228 under graduate, post graduates, Ph.D and diploma students in different colleges during 2019-20 academic year. 20 Foreign students also have been taken admission. Totally 3844 students are studying in the university.

### **RESEARCH ACHIEVEMENTS:**

- University has developed during the year 2018-19, totally 7 varieties, 40 crop production, crop protection and other related technologies for the benefit of farming community.
- Seven varieties Groundnut (Dh-256), Soybean (DSb-31), Bajra (DHN-15 & VPMH-7), Maize (BRMH-1), Chickpea (DBGV-204) and Sugarcane (SNK-09211) have been released. In addition 40 production, protection and other technologies have been released for the farming community.
- The University has produced a total of 41,700 qtls of seeds in cereals, pulses and oil seeds and distributed to the farmers.
- Four RKVY research and development projects with project outlay of Rs. 520.00 lakhs were sanctioned and are in progress. Further, 5 new externally funded projects has been sanctioned and implemented with a budget outlay of Rs. 211.44 lakhs.
- University has signed a total of 21 Memorandum of Understanding with various research and development organizations during the year 2019-20.

**Newly developed 07 crop varieties and 40 plant production, protection and other related technologies for adoption by the farming community**

<b>1 Groundnut Dh 256</b>		
Zone	:	3, 8, 9 and 10
Duration	:	105-110 days
Average yield	:	25-30 q/ha
Potential yield	:	35-40 q/ha
Special features	:	High yielding Spanish bunch variety compared to checks, suitable for <i>kharif</i> and <i>rabi</i> / summer season.



<b>2</b>	<b>Soybean DSb 31</b>		
	Zone	:	3 and 8
	Duration	:	80-85 days
	Average yield	:	25-30 q/ha
	Potential yield	:	38-40 q/ha
	Special features	:	<ul style="list-style-type: none"> <li>1) A unique genotype with more number of four seeded pods (upto 25%) and quadri / pentafoliate leaves</li> <li>2) Highly resistant to rust</li> <li>3) Early maturity &amp; high yield</li> </ul>
<b>3</b>	<b>Napier Bajra DHN-15</b>		
	Zone	:	8
	Duration	:	Perennial
	Average yield	:	2500 q/ha/yr
	Potential yield	:	3000 q/ha/yr
	Special features	:	<ul style="list-style-type: none"> <li>Highly palatable, Suitable for High Temperature conditions</li> <li>Crude protein content ranges from 8-9%</li> </ul>
<b>4</b>	<b>Maize BRMH-1</b>		
	Zone	:	3 & 8
	Duration	:	118-120 days
	Average yield	:	70-72 q/ha
	Potential yield	:	84 q/ha
	Special features	:	<ul style="list-style-type: none"> <li>Moderately resistant to TLB and grain color is Orange</li> </ul>
<b>5</b>	<b>Bajra hybrid VPMH 7</b>		
	Zone	:	3
	Duration	:	80-85 days



Average yield	:	30-32 q/ha	
Potential yield	:	40 q/ha	
Special features	:	Suitable for late planting intercropping and multiple cropping situations under changing climatic scenario	
<b>6 Chickpea DBGV 204</b>			
Zone	:	3 & 8	
Duration	:	95-98 days	
Average yield	:	18-20 q/ha	
Potential yield	:	22 q/ha	
Special features	:	Suitable for mechanical harvesting. It has golden brown medium bold seeds and moderate resistance to wilt and dry root rot	
<b>7 Sugarcane SNK 09211</b>			
Zone	:	3 & 8	
Duration	:	8-10 months	
Average yield	:	130-140 t/ha	
Potential yield	:	200 t/ha	
Special features	:	Late sparse flowering, non spiny suitable for early harvesting. Cane are medium thick, light pinkish yellow color with easy detrashability	

#### **EXTENSION ACHIEVEMENT:**

- World Soil Health Day and National Farmers Day were celebrated by all the six KVKS'.
- Krishi Mela: A mega event of University of Agricultural Sciences, Dharwad was organized from 18-20, January 2020 with “Per Drop-More Crop” theme. More than

five lakh farmers and farm women, extension workers, industrialists, NGO's representatives participated in the Krishi Mela.

- 920 input dealers at 23 centers were trained under DAESI programme.
- Raith Chetan helpline has responded to 1760 calls on agriculture and related issues raised by farmers. Rural youths are trained through various skill training programmes.

### **FINANCE:**

During the year 2019-20, the block grants of Rs. 18958.00 lakhs, ICAR Developoment grants of Rs. 807.75 lakhs, Government of India grants of Rs. 395.45 lakhs, ICAR Regular Projects grants of Rs. 1510.75 lakhs, ICAR Adhoc and other Projects grants of Rs. 334.94 lakhs, Krishi Vigyan Kendra grants of Rs. 707.35 lakhs, Government of Karnataka Adhoc grants of Rs. 196.04 and grants from other agencies of Rs. 152.06, altogether a sum Rs. 23062.34 lakhs have been received.

#### **Plan Grants:**

(Rs. in lakhs)

<b>Sl. No.</b>	<b>Year</b>	<b>Proposed grants</b>	<b>Budget released</b>	<b>Expenditure</b>	<b>Saving</b>
01.	2019-20	19343.01	18958.00	18406.30	-385.0

### **PERFORMANCE BUDGET 2020-21**

College of Agriculture, Dharwad established in 1947 was elevated to the status University to cater to the needs of farming community of northern Karnataka covering 28% of the geographical area, 27% of total cultivated area and 14% of the irrigated area in the State. UASD has been adjudged as the best Agricultural University in the country and conferred with the "Sardar Patel Outstanding ICAR Institution Award for the year 2000" by the Indian Council of Agricultural Research (ICAR), New Delhi. A leader in the field of Agricultural Education, the University of Agricultural Sciences, Dharwad is among India's most respected names in Agricultural Education, Research And Extension. An ICAR accredited (Grade A) University, UAS, Dharwad offers quality Under Graduate, Post Graduate and Diploma programs with constantly updated syllabi to meet the ever expanding needs of the various stake holders. The University has 5 Colleges, 25 Research Stations, 24 AICRP schemes, 6 Extension Education Units, 6 Krishi Vigyan Kendra and an ATIC.

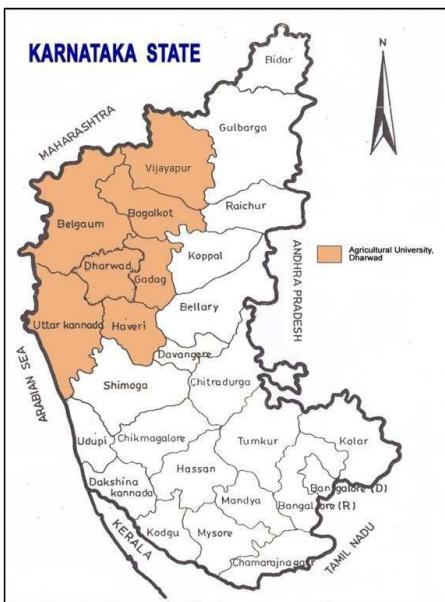
### **MISSION:**

The mission of the University is to provide leadership in teaching, research and extension related to agriculture and allied sciences. The University has been making efforts to keep pace with new frontiers of science and contemporary developments to be socially, economically and technically relevant. The University is strongly committed to develop the needed excellent manpower and useful technologies and their dissemination to serve the farming community of the State, in general, and the University jurisdiction, in particular.

## Institutions under UASD

1. College of Agriculture, Dharwad
2. College of Agriculture, Vijayapur
3. College of Agriculture, Hanumanamatti
4. College of Forestry, Sirsi
5. College of Community Science, Dharwad
6. Diploma Colleges- Dharwad, Kumata, Vijayapur, Hanumanamatti, Jamakhandi, Konnur, Nippani
7. All India Co-ordinated Research Projects (24)
8. Agricultural Research Stations (25)
9. Krushi Vigyan Kendra (6)
10. Agricultural Extension Units (6)
11. Agriculture Information Technology Centre (1)
12. Staff Training Unit (1)

## Districts under UASD Jurisdiction





## PROPOSED AGRICULTURE EDUCATION, RESEARCH AND EXTENSION PROGRAMMES 2020-21

Rs. in lakhs

<b>A. Continued Programmes under Agricultural Education</b>		<b>Budget</b>
<b>SL</b>	<b>Education and Extension Programmes (2415-80-277-2-01-103)</b>	
1	Support to education activities of colleges and Diploma centres	125.00
2	Support for IABT, Food Technology & ICAD	25.00
3	Support for Extension Activities and extension education units	50.00
4	Infrastructure development for education and extension activities	250.00
5	Support for library and sports/cultural activities etc	100.00
	<b>Sub Total (A)</b>	<b>550.00</b>
<b>B. Continued Programmes under Agricultural Research</b>		
	<b>Research Programmes (2415-80-004-2-01-103)</b>	
1	Research support for major crops and research stations	200.00

2	Research Support to Organic Farming, IFS, ABEKC, Pesticide Lab etc	50.00
3	Research support for Innovative programmes & popularisation new varieties	50.00
4	Infrastructure development for research activities	100.00
5	State share of 25% for AICRP SCHEME Expenditure	450.00
6	Security for research plots and research stations	150.00
	<b>Sub Total (B)</b>	<b>1000.00</b>
	<b>TOTAL (A+B)</b>	<b>1550.00</b>

### **TEACHING :**

Proposed students intake to Under-Graduate and Post-Graduate degree programme and Diploma (Agri.) courses during the academic year 2020-21 in UAS, Dharwad are as below:

Sl. No.	Degree Programme	Proposed intake Total
1.	Under Graduates	630
2.	Masters Degree	249
3.	Ph.D.	61
4.	Diploma	200

### **EXTENSION ACTIVITIES:**

#### **Krushi Vijnan Kendra**

- Farm Trials (40) and Front line demonstrations (50)
- Training of farmers (19,080)
- Capacity building programmes of the participants in Extension Activities (38,000)
- Production of Seeds and distribution for farmers (2,500 quintals)
- Planting materials of fruits, vegetables and other seeds (1.92 lakhs)
- Kisan Mobile Advisory Service in 5 districts (40,000)
- Soil and Water Testing samples (23,000)

#### **Agricultural Extension Education Centers:**

- To introduce new technologies to the farmers by conducting demonstrations

- To conduct training programmes on new technologies
- To conduct Front line demonstrations
- To conduct training programmes on Integrated Farming Systems
- To conduct farm trials of the new technologies in the pipe line

### **Staff Training Unit**

- officers of Agricultural and Line Departments
- farmers and farm women
- Rural youths (men & women)
- Shreshta Krishika and Shreshta Krishi Mahile
- Shreshta Yuva Krishika /Krishi Mahile
- Ex. Army involved in agriculture
- officers of NGOs

### **ATMA activities under SAMETI (N)**

- Capacity building for extension functionaries - 10 Nos
- Skill Training programmes for rural youth and input dealers - 15 Nos
- Exposure visits : 1. Extension functionaries of Dept. of Agriculture - 10  
2. Scientists of UAS, Dharwad - 02
- Documentation of farmers' innovations (Success stories / CDs)

### **Krishi Community Radio Station**

- Broadcasting research related activities of agriculture and allied enterprises involving in specialist /scientists
- Broadcasting the agricultural experiences of the farmers through “farmers to farmers”
- Documenting and broadcasting the local agricultural traditions
- Broadcasting farmers innovations to farmers
- Broadcasting the programmes on Health, Clean environment and value addition
- Broadcasting the programmes on human health
- Broadcasting the programmes on Animal Health through “Varad Basanna”
- Broadcasting the technologies released by UASD through Drama programme
- Broadcasting science and nutrition related programmes for women
- Broadcasting the advertisements on agricultural activities /programmes of UASD and dept. of Agriculture.

### **Diploma in Agricultural Extension Services for input dealers**

- DAESI ( Diploma in Agricultural Extension Services for input dealers) – The Agri input dealers are trained on Agriculture and allied sectors to give proper guidance to the farming community

### **Raita Chetan Helpline (1800-425-1150) :**

- To give free service to the farmers regarding technical matters/technology from the concerned scientists.
- To build confidence among the farmers who are suspected for suicidal tendency
- The problems pertaining to different Departments of the Government will be communicated to them through email under intimation to Deputy Commissioners of different districts

### **FINANCE:**

#### **Proposed budget for the year 2020-21**

**Rs. in lakhs**

<b>Sl. No.</b>	<b>Year</b>	<b>Budget</b>	<b>Budget released</b>	<b>Expenditure</b>
1.	2020-21	25293.81	-	-

**UNIVERSITY OF AGRICULTURAL SCIENCES, RAICHUR**  
**BRIEF ANNUAL REPORT FOR THE YEAR 2018-19 AND 2019-20 PERFORMANCE**  
**REPORT**

**University Vision, Mission and Mandate**

**Vision:** Transforming University of Agricultural Sciences, Raichur into World Class Farm University.

**Mission:** Generate quality human resource in the area of agriculture and allied disciplines, generate cutting - edge competitive technologies and evolve efficient disseminating mechanism so as to serve the farming community of the State and the country.

**Mandates:** The mandates of the University of Agricultural Sciences, Raichur as specified in the University Act are:

- a) Making provision for imparting education towards development of quality human resource in different branches of agriculture and allied sciences
- b) Furthering the advancement of learning and conducting research, particularly in agriculture and other allied sciences
- c) Undertaking the extension education of such science and technologies, specially for the rural people of the State
- d) Promoting partnership and linkages with national and international educational, industries, research and other institutions
- e) Such other purposes specified by the State Government from time to time and notified in the official gazette.

**Education**

- The total students on roll were 1262 comprising of 790 boys and 472 girls. Out of 343 students admitted during 2018-19, 209 were boys and 134 were girls.
- Out of 342 students were admitted for different courses during the academic year 2018-19. 259 students were admitted to B.Sc. Hons. (Agri.) and 65 B.Tech (Agril Eng.) courses, whereas 116 and 38 students were admitted to Master's and Doctoral degrees respectively. The number of students admitted to Diploma was 130.
- During the year 2018-19, students comprising of 168 boys and 116 girls in B.Sc. Hons. (Agri.) and 35 boys and 23 girls for B.Tech (Agri. Eng.) were admitted as new entrants.
- In PG Research, 24 Ph.D. thesis and 152 Masters thesis have been submitted . during the year 2018-19
- In RAWE programme a total of 256 students of have undergone RAWE training in different village of University jurisdiction. 18 hands on training courses we offered for the final year students to gain more practical experience.

- The publication unit has published 52 technical bulletins in different subjects for the benefit of the farmers.
- During the year, in Under Graduate programme, 63 students have been awarded UASR merit scholarship and 43 students received general scholarship where as in Masters degree programme, 43 students have received UASR merit scholarship and 158 students received incentive awards. 17 Doctoral students received UASR merit scholarship and 5 students incentive scholarship
- In Inter University youth festival held at SardarKrushinagarDantiwada Agricultural University, UAS Raichur secured Gold Medal in Mime and Bronze Mead in Quiz and 4th place in Group song completion
- The students' counseling and placement cell at all the constituent colleges are acting as liaison between the University, colleges and organizations / institutes, which are in need of graduates. During this year, 45 students were placed in different public and private organizations.
- During the 8<sup>th</sup> convocation, 6 Ph.D. students, 10 Master degree students and 2 undergraduate students received UAS Gold medals.
- NSS has been introduced in the University as compulsory course for II year B.Sc. Hons. (Hort.) students and I year diploma students. It includes day-to-day activities in social service, special camps and evaluation of volunteers.
- UAS Raichur has organized Five Board of Management meetings, one Academic council, one Research council, one Extension council and one Sports council meetings during 2018-19.
- During this year 3011 books, 176 Research Theses, were added to the main and sub campus libraries.
- The University had deposited 800 academic testimonials of the students in National Academic Depository portal under the Ministry of Human Resource and Development

## **Research**

- The Research activities of the University mainly focused on crop improvement, crop production and crop protection aspects for adoption by the farming community for overall increase in productivity and horticultural production, besides solving location specific problems.
- The University has undertaken testing 122 new varieties / chemicals/ molecules and generated revenue of 168 lakhs.
- A total of 8 MOUs have signed with different institutions for conducting collaborative research of Mutual interest.
- The University has carried 17 break through research works in crop production, one in crop protection and 5 in agricultural engineering, post harvest technology and value addition and engineering.

- UAS Raichur has identified Paddy RBP10-226, Bajra MBP-2 and Cotton BDGHH – 697 for release and for adoption.
- Totally 37 technologies were accepted for package of practice comprising 13 in crop production, 8 in crop protection and 16 Horticulture, Agricultural Engineering and one RCRMH-2 maize hybrids commercialization with Maharashtra Hybrids Seeds Company ,Mumbai.
- A total of 189 new farm trials have been recommended for the year 2018-19 which included 9 in Genetics and Plant breeding, 9 in Agronomy,16 in Entomology, 3 in plant pathology, three in Seed Science and Technology, Three in Agril. Microbiology and one each in Crop Physiology and Soil and water conservation engineering.
- During the year 2018-19 a total of 11145 qtls of seeds have produced/ procured (1047.65 Red gram seeds, 216.71 qtls of Green Gram, 5 qtls of Black Gram seeds, 3680 qtls Paddy seeds 35 qtls of Maize, 150.1 qtls of Soybean, 73 qtls of Groundnut, 2 qtls of Sunflower, 14 qtls of Millets, 4934 qtls of Bengal gram, 250 qtls of Sorghum by the Seed Unit of UAS Raichur.
- A Total of 27 externally funded projects( ICAR/RKVV) 15 Testing Projects and 04 UAS projects are in operation during the year 2018-19.

## **Extension**

- The Directorate of Extension, UAS, Raichur is playing a key role in transferring of technology in the field of Agriculture and allied technology interventions developed at the Research Stations to the farmers' field. At present the University has seven KrishiVigyanKendras and four Agricultural Extension Education Centres which are working at the grassroots level for transfer of technologies of farming community.
- University has organized “RaithaSammelana (Krishimela)” with the theme of “Impact of Climate Change on Agriculture and Strategies to Overcome Drought Situation” for two days during 27th and 28th January, 2019 at UAS, Raichur campus. There was Farmer - Farmer, Farmer – Scientists interactive sessions extended over two days involving experts of international (Sri. Rajendra Singh and Sri. AyyappaMasagi) and national fame, over twenty experts are participated and delivered talks.
- Agriculture Skill Development Training Programme was conducted in Agriculture & Allied sector for period of 25 days for 20 members in each batch on Quality seed growers, Diary Enterprises, Mushroom growers, Vermi-composting for young farmers in association with Agriculture Skill Council of India (ASCI) by the KVks of Gangavati, Raichur,
- Diploma in Agricultural Extension Services for Input Dealers (DAESI)', one year course offeredby UAS, Raichur under Department of Agriculture & Cooperation Ministry of Agriculture Government of India to impart agricultural education to equip input dealers with sufficient knowledge to transform them into para-extension professionals.Till now 450 input dealers have been benefitted by the DAESI programme and 270 input dealers are currently undergoing through this course.

- The extension activities KVKS and AEECs resulted in spread of Direct Seeded Rice (DSR) technology over an area of 79,500 ha and transplanting technology in Redgram in an area of 38000 ha.
- Horizontal spread of Pulse Magic in an area of 65000 ha and Nipping technology in Redgram in an area of 4700 ha in Kalaburagi district and also, popularization and spread of Greengram variety BGS-9 in an area of 2500 ha in Bidar district
- KVKS/AEECs conducted frontline demonstrations (FLD) on different crops in 935 ha, and thereby motivated about 2341 farmers to adopt leading farm technologies.
- Soil Testing Laboratories of KVKS has analyzed 7000 soil samples and 3000 water samples from the farmers' field.
- The Farmers approach to the nearby KVKS/ AEECs to get information from the scientists and registered themselves were 9732. The registered farmers are also updated with the farm technology through Mobile SMS by the KVKS/AEECs
- Crop production, protection and value addition related information has been delivered by scientists of KVKS and AEECs through Radio talks (90), training programmes (900), and television programmes (70), through Mobile SMS (36748), Whats App (135000) and also, 125 farm exhibitions, 78 group discussions have been organised.
- The University is providing technology backstop to all 162 RaithaSamparkaKendras (RSKs) of Karnataka State Department of Agriculture under "One RSK- One Scientist" programme by deputing one Scientist to one RSK as "Contact Scientist".

#### **Finance and Budget**

- The State Government provided maintenance grants under plan grants to continue the ongoing commitments under establishment. Indian Council of Agricultural Research, New Delhi provided funds for the continuation of the existing schemes and to start new teaching, research and extension education programmes. Grants were also provided under All India Co-ordinated Research Schemes and Ad-hoc Research programmes. Revenue is also generated by utilizing the internal resources through crop cultivation, seed production and student's fee, etc. The budget and expenditure details are given below

#### **Details of budget and expenditure of the University during 2018-19**

<b>Sl. No.</b>	<b>Grants</b>	<b>Sanctioned</b>	<b>Released</b>	<b>Utilized</b>
I	<b>State Govt.</b>			
	i. Non Plan Grants	-	-	
	ii. Plan Grants	8826.73	8826.73	9153.11
	iii. RAWE	-	-	
	iv. Ad-Hoc Schemes	842.62	842.62	571.58
	<b>Total-I</b>	<b>9669.35</b>	<b>9669.35</b>	<b>9724.69</b>

<b>Sl. No.</b>	<b>Grants</b>	<b>Sanctioned</b>	<b>Released</b>	<b>Utilized</b>
<b>II</b>	<b>ICAR</b>			
	KVK	807.81	807.81	927.54
	Co-ordinated Projetc	781.63	781.63	656.05
	Development Grants	0	0	0
	<b>Total -II</b>	<b>1589.44</b>	<b>1589.44</b>	<b>1583.59</b>
<b>III</b>	<b>Govt. of India / Others</b>			
	Government of India	701.31	701.31	535.85
	Other agencies	572.55	572.55	274.60
	Internal Receipts	2479.54	2479.54	
	RKVV	500.00	500.00	112.76
	NABARD	--	--	220.64
	SCPS/TSP	430.00	430.00	143.05
	<b>Total-III</b>	<b>4683.40</b>	<b>4683.40</b>	<b>1286.90</b>
	<b>Grand Total (I+II+III)</b>	<b>15942.19</b>	<b>15942.19</b>	<b>12595.18</b>

### **Infrastructure Development and Maintenance**

- In order to develop and maintain the infrastructure in all the campuses and at the Head quarters, the University has Executive Engineer and supported by Assistant Executive Engineers and Assistant engineers. Seven Infrastructure projects (1669.53 lakhs) have been completed with the financial assistance from RIDF and GOI and UASR grants and 16 new projects (104.82 lakhs) have been taken up in campuses of the University.

### **Civil Works Completed During Financial Year-2018-19**

<b>Sl No</b>	<b>Name of works</b>	<b>Cost of Project in lakhs</b>	<b>Budget Head</b>
<b>MAIN CAMPUS RAICHUR</b>			
1	Construction of Rear Wing (Ground floor) of Agri. College at UAS, Raichur.	330.28	RIDF Grants
2	Construction of Agriculture Engineering College (Second floor) at UAS, Raichur.	234.30	RIDF Grants
3	Construction of Farm Machinery Testing Centre at UAS, Raichur.	109.34	D.O.A.C. (GOI) Grant
4	Construction of University Main Entrance Gate at UAS, Campus Raichur.	37.36	UAS

<b>Sl No</b>	<b>Name of works</b>	<b>Cost of Project in lakhs</b>	<b>Budget Head</b>
	<b>A.R.S. GANGAVATHI.</b>		
5	Construction of Agricultural Research Centre at A.R.S. Gangavathi.	352.26	UAS
	<b>COLLEGE OF AGRICULTURE, KALABURGI.</b>		
6	Construciton of Agri College Building Second floor (Phase-I) at Kalaburgi Campus.	280.71	UAS
	<b>A.R.S. JANAWADA (BIDAR)</b>		
7	Construction of Diploma College (Ground Floor) at A.R.S. Bidar.	325.28	RIDF Grants
	<b>Total Rupees in Lakhs</b>	<b>1669.53</b>	

**Table 43 : NEW CIVIL WORKS TAKEN UP DURING FINANCIAL YEAR-2018-19**

<b>Sl. No.</b>	<b>Name of works</b>	<b>Cost of Project in lakhs</b>	<b>Budget Head</b>
	<b>MAIN CAMPUS RAICHUR</b>		
1	Construction of Field lab in new area at MARS, Raichur.	8.06	UAS
2	Providing pavers to Pathway infront of Organic farming Research Institute at UAS, Raichur.	5.34	UAS
3	Construction of two wheeler parking shed and laying pavers to pathway to Agro-climate studies centre at UAS, Raichur.	7.74	UAS
4	Providing CC flooring for Multi-Gym workstation at old Auditorium of College of Agricultural Engineering, Raichur	4.27	UAS
5	Renovation of Bullock shed at UAS, Raichur campus.	5.13	UAS
6	Providing 62.5KVA/50KW DG set to Agri. Engineering college at C.A.E, Raichur.	7.40	UAS
7	Providing & Fixing Aluminium window with Mosquito mesh in old Krishna Boys Hostel @ UAS, Raichur	9.38	UAS
8	Providing Spreading Murrum for Sports track at UAS Raichur	5.25	UAS
9	Repair / Renovation of Electrical works to A2, C1, C2, C3, C4, C5, C6, D3, D4, D5, D6, D7, D8, D11, D12 qtrs at UAS, Raichur	8.97	UAS

<b>Sl No</b>	<b>Name of works</b>	<b>Cost of Project in lakhs</b>	<b>Budget Head</b>
	<b>A.R.S. GANGAVATHI.</b>		
10	Providing chain link fencing to old and new Farm ponds at ARS, Gangavathi.	9.36	UAS
	<b>A.R.S. HAGARI CAMPUS.</b>		
11	Construction of Implement shed at A.R.S. Hagari	9.08	UAS
12	Providing HT & LT line and 63 KVA transformer to Diploma College at ARS, Hagari	3.74	UAS
13	Providing Electrifiction Air-Conditioner to Guest House at ARS, Hagari.	3.52	UAS
	<b>COLLEGE OF AGRICULTURE, BHEEMARAYANAGUDI.</b>		
14	Providing 62.5KVA/50KW DG Set to Seed Processing Unit at College of Agriculture Bheemarayanagudi.	7.39	UAS
15	Providing 25KVA/20KW Diesel Generator Set to Tissu Culture Lab at College of Agriculture Bheemarayanagudi.	5.40	UAS
16	Providing HT & LT Line and 63 KVA Transformer to Diploma College at ARS, Bidar	4.79	UAS
	<b>Total Rs.</b>	<b>104.82</b>	

### **Performance Budget for the Year 2019-20**

#### **1) Agriculture Education- 2415-80-277-3-01**

An amount of Rs. 1945.00 lakh is provided for this scheme, out of which an amount of Rs. 395 laks for salaries, Rs. 1163 lakhs grant in aid generalL, 245.00 lakh and Rs. 142.00 lakh is provided under SCP and TSP respectively. The following activities will be taken up in Agricultural Education:

<b>Sl. No.</b>	<b>PROGRAMME</b>
<b>I</b>	<b>Maintenance and Support to Education Activities of Colleges &amp; Diploma Centers</b>
1	Infrastructure development for teaching
2	Diploma/certificate course ,student stipend and contingency
3	Graduateteachingfaculty for diploma
4	Documentation and publication
5	Infra structure development(lab, hostels) in the college
6	Maintenance of vehicles
7	Purchase of scientific Equipment

8	Députation of scientists for national and international level
9	University Library
10	Student READY Programme
11	Studentwelfare/Sports and cultural activities/Educationalstudy tours
12	StudentScholorships/Fellowships
13	Contractual labour/appointments
14	Stregnthening of Post graduate and Ph.D programmes
II	New Educational programmes
1	<b>Stregnthening of Teaching and Learning capabilités</b>

## 2) Agricultural Research- 2415-80-004-3-00

An amount of Rs. 8085.00 lakh is provided for this scheme, out of which an amount of Rs 458 lakhs towards daily wages, Rs.5539 towards salaries Rs.1100.00 lakh is provided for Grants in Aid General, Rs.195.00 lakhs for GIA for out sourcing Rs.793.00 lakhs Grants in Aid for Pension etc. has been allocated for the year 2019-20 Following research activities will be taken up:

Sl. No.	Particulars
I	<b>Continued Research Programmes</b>
A)	<b>Maintenance and Development</b>
1	Land development and Infrastructure development in all Research Stations
2	Purchase of Scientific Equipments/Implements
3	Farm Facilities and Development
4	Purchase of Agri-inputs
5	Strengthening of Agricultural Extension Education Centres
6	Contractual Labour / Appointments
7	Purchase of Vehicles (Tractor, Jeep etc.)
B)	<b>Research Programmes</b>
1	Water management research programme in irrigation commands, water harvesting, bore well recharge, drip and sprinkler irrigation in different crops in research stations
2	Research on water requirement, pest and disease management in DSR at Gangavati area
3	Research on climate change and agro-meteorology
4	Research on Nano science and technology in enhancing the quality of agricultural produce
5	Organic farming research institute
6	Reducing the cost of cultivation and increasing the productivity of groundnut

# **UNIVERSITY OF AGRICULTURAL AND HORTICULTURAL SCIENCES, SHIVAMOGGA**

## **BRIEF ANNUAL REPORT: 2018-19 AND PERFORMANCE BUDGET-2019-20**

### **INTRODUCTION**

University of Agricultural and Horticultural Sciences, Shivamogga is the first Integrated University in the state of Karnataka which has both agricultural and horticultural sciences under its purview. The University is functioning from 21<sup>st</sup> September, 2012 through a Special Gazette notification of Karnataka Act No. 38 of 2012 and has come into independent existence with effect from 1<sup>st</sup> April, 2013. It has the operational jurisdiction in seven districts viz. Shivamogga, Davanagere, Chikkamagaluru, Udupi, Dakshina Kannada, Kodagu and Chitradurga. The present Vice-Chancellor, Dr. M.K. Naik has assumed the charge on 31<sup>st</sup> March, 2018.

The University has four UG/PG Colleges at Shivamogga, Mudigere, Ponnampet and Hiriyur and two Diploma (Agri.) College at Kathalagere and Brahmavar.

### **A. EDUCATION**

#### **1. Students strength in different programmes in constituent Colleges**

Totally 426 students have been admitted for the Under Graduate Degree Programmes at different campuses viz., Shivamogga, Hiriyur, Mudigere and Ponnampet, 133 students for PG programmes at Shivamogga, Mudigere and Ponnampet, and 70 for Diploma (Agri.) at Kathalagere and Brahmavar.

#### **2. Students undergoing READY (Rural Entrepreneurship Awareness Development Yojana) 251 students.**

#### **3. Important Activities/Achievements**

- a. 241 UG Students (B.Sc. Agri., Hort & Forestry), 92 M.Sc. Students and 11 Ph.D. students in Agriculture, Horticulture and Forestry were awarded degree in the 3<sup>rd</sup> convocation of the University held on 09-03-2019. Out of these, 22 merit students got 30 gold medals in this occasion.
- b. 48 students of this University have got ICAR JRF/NTS. Out of which 20 students have got ICAR JRF and 28 students got NTS. Ms. Chaithra T. S. Student of CoH, Hiriyur secured 2<sup>nd</sup> rank and Mr. Dayanada Patil student of CoA, Shivamogga secured 5<sup>th</sup> Rank in ICAR JRF.
- c. The University of Agricultural and Horticultural Sciences, Shivamogga, Karnataka has secured 2<sup>nd</sup> highest position in Post graduate Scholarship in Horticulture and Forestry at All India Level and for which University has been awarded ICAR-PG-Scholarship Award by Shri Radha Mohan Singh, Hon'ble Union Minister for Agriculture, New Delhi in an award function held on 30-01-2019 at New Delhi. The award was received by the Hon'ble Vice Chancellor, Dr. M.K. Naik.

- d. **Students of UAHS have secured overall runners up champion in the 18<sup>th</sup> All India Inter Agricultural Universities Youth Festival** which was held from 12<sup>th</sup>-16<sup>th</sup> February 2018 at Sri Venkateswara Veterinary University, Tirupati, Chittoor District, Andhra Pradesh.
- e. Mr. Lingaraja S., 4<sup>th</sup> B.Sc.(For), COF, Ponnampet won **Bronze Medal in 800mts**, Ms. Nidhi C.N Jr M.Sc.(Hort), COH, Mudigere bagged **Gold Medal in Women Discuss throw and** Ms. Divya S B.Sc.(Hort), COH, Mudigere got **Silver Medal in Women 400mts** during the 19<sup>th</sup> All India Inter Agricultural Sports and Games meet.
- f. Ms. Kshama Koparde 3<sup>rd</sup> B.Sc (For) COF, Ponnampet **represented Karnataka at the National Women Boxing Championship** in Bellary and reached **quarter finals** from 4<sup>th</sup>-6<sup>th</sup> January 2019. College of Forestry, Ponnampet, was selected for state level Yuvajanothsava competition in Tumkuru. Mr. Darshan H.M., 4<sup>th</sup> B.Sc. (Forestry) student secured first place at State level Debate competition and selected for National Level Yuvajanothsava competition held at New Delhi.
- g. Ms. Namitha S. B.Sc (Hort.) COH, Mudigere and Ms Shwetha B.Sc (For), COF, Ponnampet **represented Karnataka at Republic Day Pared** in New Delhi from NSS cell.
- h. University has PG Programmes in Agriculture, Horticulture and Forestry in which fifteen M.Sc. and five Ph.D. programmes are being offered. At present 265 students are pursuing Post Graduate Programme.
  - i. A new Post Graduate degree programme M.Sc. (Agri.) in Horticulture has been started from the academic year 2018-19 at CoA, Shivamogga.
  - j. The newly introduced PG study Tour (0+1), course is being organised systematically.
  - k. MoU has been made with National Institutes like IWST Bengaluru, CFTRI Mysore and with other Universities such as UAS Bengaluru, Dharwad, Raichur and UHS Bagalkote for quality research.
  - l. The National Conference on PG Research in Farm Universities was organised at University of Agricultural and Horticultural Sciences, Shivamogga on 8<sup>th</sup> and 9<sup>th</sup> May 2018. Ph.D. & M.Sc. students of UAHS, Shivamogga participated in the competition for best research paper award. Best Ph.D. thesis award competition was organized for Ph.D Students of Agricultural Universities from different states.
  - m. A separate PG research block at Bavikerewas started with all the required facilities for conducting research in the fields and laboratory. Separate hostels for boys and girls have been established.
  - n. Regular campus interviews, students counseling, sports facilities such as basketball court, Indoor stadium, flood light to kho-kho, basket ball and kabbaddi counts have provided along with International standard long jump pit and high jump pit.

- o. Libraries in the University are well equipped with good number of collection (24,089 books, 509 e-books, 260 thesis, 66 periodical, 268 bound journals, 91 educational compact disk ) to provide a gate way for student and faculty to access various resources both in print/physical and digital forms. In addition to the above facilities, all the libraries have digital facilities with CeRA connectivity. Further, the University Library located at Shivamogga is fully digitalized by establishing RFID & Koha software for library management in the libraries of different campuses under UAHS.
- p. University organised National Conference on 'Biodiversity and Plant Genetic Resources Conservation for Future' on 15<sup>th</sup> and 16<sup>th</sup> March, 2019. Dr. Ashok Dalwai, IAS, CEO, National Rainfed Area Authority, New Delhi and Dr. Krishnakumar, N.K., Regional Representative, South and Central Asia, Bioversity were present. 150 participants from different states *viz.*, Karnataka, Tamilnadu, Kerala, New Delhi, Madhya Pradesh, Maharashtra and Bihar. In total there were 30 oral presentations and 80 posters by the delegates and 6 best papers were awarded.
- q. University has organized five days training programme on "Advances in climate resilient agro-techniques for enhancing crop productivity and sustainability" from 21st to 25th January, 2019 at Shivamogga.
- r. University organized "Faculty development programme for increasing efficiency and effectiveness in teaching research and extension" for five days from 4th to 8th February, 2019 in collaboration with ICAR-NAARM, Hyderabad for the faculty of the University. Dr. Mruthyunjaya, Former National Director NAIP-ICAR, New Delhi inaugurated the programme and gave the key note address and the Dr. M.K. Naik, Hon'ble Vice Chancellor offered presidential address.
- s. Refresher course on "Integrated farming systems for sustainable production under changing climatic scenario" was organised by the University from 11<sup>th</sup> to 20<sup>th</sup> March, 2019 at UAHS campus, Shivamogga.

#### **4. PG Centers and PG Programmes in the University**

- a) Post graduate education in the University commenced from 2002 with the starting of M.Sc. (Agri.) Programmes in soil science and Agricultural Chemistry and Agricultural Entomology at College of Agriculture, Shivamogga. Over the years the PG activities of the campus got fill up both in respect of the diversity of PG programme and PG student's intake. M.Sc. (Agri.) programmes in Genetics & Plant breeding, Agronomy and Plant Pathology were started in the year 2012. In the year 2013 Ph.D. programme in five disciplines namely Agricultural Entomology, Agronomy, Genetics & Plant Breeding, Plant Pathology and Soil sciences were started along with addition of Agril. Extension to the master's degree programme. M.Sc. (Agri.) in Horticulture degree programme was started from 2018, and M.Sc. (Forestry) in NRM and Ph.D. in Silviculture and Agroforestry will be commencing from current academic year 2019-20.

- b) Presently M.Sc. Programs are running in 16 various disciplines and Ph.D. in 6 different disciplines. During the 14 years period 331 M.Sc. theses have been brought out on various aspects.

## 5. New College Proposals

Proposals for starting of New Colleges of Agriculture at Brahmavar of Udupi District and Kathalagere/Tyavanagi of Davanagere District have been submitted to the Government of Karnataka during 2017-18.

## 6. Awards/ Recognition

- a) Dr. Gangaprasad. S. Professor of Genetic and Plant Breeding awarded with NUFFIC Fellowship by government of Netherland.
- b) Dr. T.H.Gowda was bestowed with Fellow of ISEE award by Indian Society of Extension Education, Kolkata
- c) Dr. Hemla Naik, University Librarian has been awarded as Fellow of Indian Ornamental Society, New Delhi.
- d) Dr. M.K. Naik, Vice Chancellor of UAHS, Shivamogga has been bestowed with Life Time Achievement Award by Society for Advancement in Agricultural Sciences and Technology, Meerut and also on the occasion of International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2018) at Rajasthan Agricultural Research Institute, Durgapura, Jaipur, Rajasthan for his outstanding contribution to plant pathology.
- e) Dr. R Basavarajappa, Professor of Agronomy and Dean, College of Horticulture, Hiriyur was recognized as "**Fellow-Society for Development of Subtropical Horticulture**" (**FSDSH**) from, Lucknow, ICAR Complex.
- f) During 6<sup>th</sup> Foundation Day of University, Best Teacher Award to Dr. Ramakrishna Hegde, Best Researcher Award to Dr. H.D. Mohankumar, Best Extension Scientist Award to Dr. B.C. Hanumanthaswamy, Best Farm Superintendent Award to Sri. A.V. Swamy, Best Employ Award to (A-B category) Sri S.C. Maradagi, Best C categary Employ Award to Sri.B. Kumar, and Best D category Award to Sri Nataraj were given away.

## B. RESEARCH

### 1. Technologies developed (Recommended/Released)

#### 1) Variety release proposals

- ❖ **SAHYADRI MEGHA:** High Yielding, medium plant stature with dark green foliage without any pigmentation rice variety suitable for kharif and summer is recommended for southern transitional zone. It is of short duration (120 days) with bold & red grains, without awn and pigmentation. It contains high protein (12.4%) with a grain yield of 70 q/ha. It is moderately resistant to blast and udbatta diseases

- ❖ **Tobios-6 FCV tobacco variety:** Flue cured tobacco variety Tobios -6 has been approved for release for Karnataka light soils. It yields 15 per cent higher cured leaf yield over the check variety Sahyadri and also 18 per cent over another check variety Kanchan. It is relatively drought tolerant, moderately resistant to black shank, frog eye leaf spot and root knot nematode along with good quality characters
- ❖ **Cowpea UAHS-28 :**This Variety is suitable for late Kharif and Summer season and recommended for southern transitional zone. It is a medium bold and early vigour and having short stature and grown well in limited moisture conditions. It matures in 80-85 days and gives an yield of 12-13 q/h
- ❖ **Sahydri Panchamuki(IRGA-318-11-6-9-2B):** High yielding flood tolerantred rice varietyrecommended for *Kharif* is suitable for lowland in the coastal zone. It is of Midduration (130-135 days) medium bold red variety with the grain yield of 50-55 q/ha. It is highly tolerant to blastand helminthosporium spot and resistant to gallmidge.
- ❖ **Sunflower-KBSH-78 :**A sunflower early hybrid KBSH-78 is endorsed to release for central dry zone and southern transitional zone. It matures in about 85 days and gives an yield of 10-12 q/h (under rainfed) and 20-25 q/ha under irrigation. The oil yield is 900-950 kg/ha, The crop is having a medium plant height, sturdy and erect plant type with very good appearance

## 2) Proposals for Package of Practices

- ❖ -Application of NPK (24:12:24 kgs/acre) + lime equivalent 50% exchangeable acidity along with 12 kg/acre of magnesium sulphate + 1 kg/acre borax (once in 3 years borax application) applied at the time of transplanting recorded significantly higher paddy yield and is recommended for coastal zone of Karnataka.
- ❖ During evening hours between June and September, emerging females are to be collected and placed in a plastic container having small holes. Prepare a indigenous female baited trap using a bucket (10 lt capacity) and a funnel and hang in the field at the height of 5 ft to attract male beetles. The trapped beetles can be collected and destroyed. If attraction stops, freshly emerged females need to placed
- ❖ **Effect of Integrated Nutrient Management on growth and yield of Arecanut var. Thirthahalli tall :**Application of PSB @ 10 gm/palm to the areca plants leads to increase in yield, attributing to the solubulisation of phosphorous (available Phosphorous) in the active root zone of the plant. The required quantity of PSB is mixed with FYM one month prior of application to the plants.
- ❖ Soaking of gladiolous corms in under PPM Benzyl adenin (One gram in 10 ltrs of water) for 12 hours resulted in increasing the yield of gladiolous corms

- ❖ **Improved castor productivity through sowing schedule:** The large scale demonstration revealed that sowing during 2<sup>nd</sup> fortnight of August recorded higher yield to the tune of 7.6% (1074 kg/ha) than the Farmer's Practice (15<sup>th</sup> June Sowing).
- ❖ **UAHS Designed Hydraulic Cashew juice extractor:** The machine capacity of UAHS Designed Hydraulic Cashew juice extractor and Electric Screw Jack Cashew juice extractor was found to be 60.00 and 35.25 litre per hour respectively with the Juice recovery of 0.70 litre per kilogram, Whereas the machine capacity of existing Hydraulic press and Traditional method (Hand press) was found to be 15.00 and 8.25 litre per hour respectively. The cost of operation was found to be Rs. 2.12 per litre of juice extraction using UAHS Designed Hydraulic Cashew juiceextractor and Electric Screw Jack Cashew juice extractor respectively, whereas the cost of operation in existing Hydraulic press and Traditional method (Hand press) was found to be Rs. 10.42 and Rs. 15.15 per litre respectively.
- ❖ **Design and modification of onion seed drill:** The per cent of saving of labor in Modified Tractor Drawn Seed Drill (2 Labour/acre) compared to broadcasting (8 Labour/Acre) was 36. Area coverage was 66 per cent more than the broadcasting. Seed requirement was 47 per cent less than the broadcasting method. Total cost for broadcasting and tractor operated onion seed drill was Rs.5,400/acre and Rs. 3800/acre, respectively. The percentage of cost saving was 29.62 percent compared to broadcasting method

### 3) Farm Trials

- ❖ Red rice variety BMR-MS-1-2-1 was recommended for coastal zone
- ❖ Three splits of compost treated dose of potash fertilizer has been recommended for paddy in coastal zone.
- ❖ Rice variety IET-24451 was recommended for hill zone
- ❖ Application of Trifloxystrobin 25% + Tebuconazole 50% WG @ 0.4 gm/L for the management of leaf and neck blast in paddy has been recommended for hill zone.
- ❖ Rice variety Sahydri Kempumukti was recommended for hill zone.
- ❖ Chrysanthemum variety Kolar Local was recommended for hill zone.
- ❖ For the management of the Jasmine bud borers, application of Chlorantraniliprole 18.5 SC @0.1ml/lt is recommended in jasmine.
- ❖ To manage the Aphids, *Aphis craccivora* in field bean, application of Thiomethoxam 25WG @0.25 g/l is recommended.
- ❖ Application of lambda cyhalothrin 2.5 EC (@ 1.00 ml/lt is recommended for the management of tea mosquito bug in cocoa.

- ❖ To manage the fruit fly in cucumber, application of Spinosad 45 SC @ 0.15ml/lit is recommended.

#### **4) Production of Seeds / Quality Planting Material / Bio-agents :**

##### **✓ Seed Production Achievement**

Particulars	2018-19 (q)	Targets (q) 2019-20
Cereals	10016.57	13125
Pulses	86.96	2100
Oil seeds	168.50	1100
Total Seed	10272.03	16325

##### **✓ Seed And Planting Material Production Achievement In Horticultural Crops**

Particulars	2018-19	2019-20 Targets
Seed (q) (Bhendi, Onion, Bottle guard, vegetable redgram, chilli, brinjal)	25.47	125.75
Seed nut production (nos.) (Areacanut & Coconut)	19000	20000
Planting materials (lakhs) (Vegetables, spices, fruits & trees)	446744	1661500

##### **✓ Honey Processed :**

During the year under report 1,270 Kgs of Honey was processed and Distributed to the farmers.

##### **✓ Mass Production and sale of Bio-fertilizes and Bio-control agents for 2018-19**

Name of the Biofertilizer / Biocontrol agents	2018-19 Qty. sold in Kg	Amount per Kg	Amount (Rs.)
<i>Trichoderma</i>	7545	100/-	754500
<i>Pseudomonas</i>	3280	100/-	328000
<i>PSB</i>	1420	100/-	142000
<i>Rhizobium</i>	-	100/-	-

Name of the Biofertilizer / Biocontrol agents	2018-19 Qty. sold in Kg	Amount per Kg	Amount (Rs.)
<i>Azotobacter</i>	1325	100/-	132500
<i>Azospirillum</i>	365	100/-	36500
<i>VAM</i>	125	120/-	15000
<i>Pochonia</i>	-	100/-	-
<i>Paceliomyces</i>	-	100/-	-
<i>Compost culture</i>	365	100/-	36500
<i>Metarhizium</i>	85	100/-	8500
<i>Bacillus subtilis</i>	54	100/-	5400
TOTAL	14564		
TOTAL Amount (Rs.)			1458900

✓ **Evaluation of Products**

During the 2018-19, the university has undertaken testing of thirty five New chemicals/molecules for control of Pests/Diseases/Weeds, growth regulators and agricultural equipments and generated a revenue of Rs.41.82 lakhs

**5) Three Centres of Excellence have been initiated in the University campus at Shivamogga.**

1. **Centre of Excellence on Pesticide Residue Testing Laboratory for Monitoring and Assuring Quality of Soil, Water and Food** is established under the financial assistance of Rs. 250.00 lakhs by RKVY and GoK Plan Grants.
  2. **Centre of Excellence for Diagnosis of Plant Diseases and Pests** to create awareness among the farmers, extension workers, developmental departmental staff and students about the pests, diseases and abiotic stresses of agricultural and horticultural crops with a budget outlay of Rs.80.00 lakhs from Rashtriya Krishi Vikas Yojana.
  3. **Center for Climate Resilience** through Demonstration of Climate Smart Farming Practices is established to strengthen the research on Climate Resilient Agriculture with a budget of Rs.132.00 lakhs by RKVY and GoK Plan Grants.
- ❖ The project funded by GoK on Zero Budget Natural Farming (ZBNF) which is a low-input, climate-resilient type of farming that encourages farmers to use low cost locally-sourced inputs, eliminating the use of artificial fertilizers, and synthetic pesticides is initiated through collaboration between Karnataka State Department of Agriculture and State Agricultural Universities. This project is being operated by the university in about

6000 ha farmers field covering three zones of Karnataka (*viz.*, Central dry zone, Southern transition zone and Coastal zone) with total budget outlay of 335.69 lakhs.

- ❖ Another ambitious project of GoK on implementation of Israel technology in association with the Consul General of State of Israel in Bangalore has been approved and to be initiated.
- ❖ Seed production activities of the University are carried out by the Seed Unit, UAHS, Shivamogga in all the research stations and also in progressive farmer's fields under participatory seed production programme. During the year about 10074.12 q. seed production has been taken up which includes seeds of 7338.29 q of cereals, 2403.02 q of Pulses and 332.80q of Oil seed crops. The university is having seed production target of 29,375 quintals during the year 2018-19.

## **6) Research Projects**

### **AICRP projects**

All India Coordinated Research Projects on AICRP on Rice at Ponnampet and Brahmavar, AICRP on Farming Systems Research at Kathalagere, AICRP on Cardamom at Mudigere, AICRP on Palms (Arecaanut) at Bavikere, AINRP on Tobacco at Shivamogga, AINRP on Onion and Garlic at Hiriyur , AICRP on Nematodes at Shivamogga, AICRP on Groundnut at Hiriyur, AICRP on Agro-Forestry at Ponnampet and AICRP on Oil Palm at Bavikere.

## **7) Externally funded projects (including ICAR)**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Year</b>	<b>Nos.</b>	<b>Budget (₹ in lakhs)</b>
1.	Rashtriya Krishi Vikasa Yojana	2017-18	06	493.00
2.	Rashtriya Krishi Vikasa Yojana	2018-19	02	145.00
3.	Government of Karnataka (Continued)	2017-18	06	135.00
4.	Government of Karnataka (New)	2017-18	18	300.00
5.	Government of Karnataka (Continued)	2018-19	15	148.00
6.	Government of Karnataka (New)	2018-19	21	207.00
7.	UAHS Staff Research Projects (Continued)	2017-18	21	14.20
8.	UAHS Staff Research Projects (New)	2017-18	57	45.80
9.	UAHS Staff Research Projects (Continued)	2018-19	28	13.40
10.	UAHS Staff Research Projects (New)	2018-19	76	56.60
11.	KSDA, Bangalore	2018-19	01	5.50
12.	Godrej Agrovet Limited	2018-19	01	3.83

<b>Sl. No.</b>	<b>Particulars</b>	<b>Year</b>	<b>Nos.</b>	<b>Budget (₹ in lakhs)</b>
13.	Foe Excel Crop Care Limited, Mumbai	2018-19	02	6.72
14.	Crystal Crop Protection Limited, New Delhi	2018-19	01	6.66
15.	M/s. Syngenta India Limited, Pune	2018-19	01	5.28
16.	BASF India Limited Mumbai	2018-19	03	24.49
17.	Excel Crop Care Limited, Mumbai	2018-19	01	1.75
18.	Dow Agro Sciences India, Pvt. Ltd.,	2018-19	01	4.00
19.	E.I. Dupont India Pvt. Ltd	2018-19	01	1.48
20.	M/s Rallis India Limited	2018-19	01	4.00
21.	Sirius Minerals India Pvt. Ltd. New Delhi (Foreign funded)	2018-19	01	8.13
22.	IMD (FASAL)	2018-19	01	2.86
23.	PPV & FRA, New Delhi	2018-19	01	9.00
24.	KWDP-II (Sujala-III) Watershed Project	2018-19	01	185.00
25.	DASD Calicut	2018-19	01	46.70
<b>Total</b>			<b>268</b>	<b>1873.4</b>

## C. EXTENSION

### 1. Training Programmes organized for Farmers/Department Staffs/Other

**On campus and off campus training programmes:** totally 133 On campus training covered 4,338 farmers/farm womens and 129 Off campus training covered **4,071** farmers/farm women with a total 261 trainings are conducted and 8,419 farmers/farm womens are benefited from the programme. This trainings were conducted based on the problems faced by the farmers and needs of the farmers. The training covered mainly on entrepreneurship activities to self help groups viz., dairy, sheep rearing, poultry, Organic farming, Integrated Crop Management in tuberose, hydroponics, vermi-composting, areca husk composting, composting by using coconut dry fronds, Bee keeping, bio-fertilizers production, establishment and maintenance of Terrace Garden and Kitchen garden, Use and importance of bio-fertilizers, feed and disease management in livestock and value addition in milk, composite fish culture, forage crop production, food security and health etc. introduction of rice variety KPR-1, Integrated farming system for doubling of income, integrated pest, disease and nutrient management in major agricultural (paddy, maize, sugarcane, groundnut, sunflower, pulses etc.)and horticultural crops (areca nut, banana, coconut, onion, ginger, coffee, pepper, cashew, turmeric, mango, pineapple, etc.). Entrepreneurship development programme viz. mushroom cultivation,

## **2. Vocational, sponsored, skill oriented and extension personnel:**

**Trainings** were conducted on Scientific sheep and Poultry farming, Bakery Products preparation-entrepreneurship development programme, Bee keeping, Progressive Farmers to Farmers training - Use of bio-fertilizers and bio-fungicides in vegetables, Nutritional management to enhance the productivity and fertility in cross bred cows, vermicomposting, Income generation activities in Horticulture for rural youths, Gardener-skill development training, arecanut palm climbing, high tech horticulture, mushroom cultivation, kitchen garden, dairy, poultry, bee-keeping, value addition, sheep farming involving farmers and extension personnel.

## **3. Soil and Water samples analyzed**

<b>Sample Details</b>	<b>No. of Samples analyzed</b>	<b>No. of Farmers benefited</b>	<b>Amount realized (Rs.)</b>
Soil	8,277	8,134	4,13,850
Water	2,129	1,499	2,12,900
<b>Total</b>	<b>11,742</b>	<b>9,633</b>	<b>6,26,750</b>

## **4. Krishi Mela 2018**

Krishimela was organized with the theme “**Integrated Farming for Doubling Income**” from 12-15<sup>th</sup> October- 2018. This was a unique Krishimela which attracted more than 4 to 5 lakhs farmer/farm women and extension workers. During this event 13 best district level farmer/farm women coming under UAHS, jurisdiction were awarded.

## **5. Skill development Programmes:**

The National Institute of Agricultural Extension Management (MANAGE), Hyderabad, has sponsored **5 skill training programmes** to organize for Rural Youth for six days. Following Skill development programmes are implemented and 75 trainees are benefited the training programme

1. Nursery Management
2. Agricultural apprenticeship training under Mechanization and Technology
3. Vermi-composting
4. Mushroom cultivation
5. Bee Keeping

## **6. Negila Miditha and Krushi Sampada All India Radio programme(AIR):**

A Special programme “**Negila Miditha**” & “**Krushi Sampada**” were broadcasted through **All India Radio programme** (AIR) Bhadravathi and Chitradurga every day from the Scientists of UAHS, Shivamogga for the benefit of the farmers.

## **7. On farm testings**

The following 21 OFT's were conducted in different districts of University Jurisdiction viz., evaluation of high yielding red rice varieties PRATYASA (MO-21& MO-22), evaluation of bhendi varieties, onion varieties, sesamum varieties, Management of sucking pests in Tomato, areca husk compost on growth and yield of French bean, different concentrate Feed formulations in cross bred cows during peak production, nutrients assessment to increase the maize yield, management of wilt (slow & quick ) in black pepper, pruning time in Udupi Jasmine and Fall (Off Season) Management in Bee Keepinginvolving in 124 farmers.

## **8. Front line demonstrations**

Front line demonstrations (48 nos) were conducted in ICM in Sunflower, French Bean, tuberose, pepper Groundnut, Banana, arecanut, green gram Demonstration of Bhima Super onion variety for late *Kharif* season,Demonstration of Nutri-Farms For Year Round Nutrition Security Among Farm Families, introduction of rice variety KPR-1, Management of tomato leaf miner, Intercropping onion and Chilly for higher income, Introduction of Tilapia under feed based aquaculture, Demonstration on Black Gram variety Rashmi (LBG – 625), Silage preparation in plastic drums, Soil acidity management in paddy, Estrous synchronization inCrossbred cows, Culture of Amur Common carp in Polyculture system, Establishment of Fodder Cafeteria, Popularization of groundnut variety G-2-52 in paddy fallows, Production and management of carps in farm ponds, and IPDM in watermelon involving 486 farmers and one SHG's.

## **9. Technical Workshops/Bi-monthly/Tri monthly meetings/Seminars**

Organized 35 workshops/seminar 18 bi-monthly meetings, 12 tri-monthly meetings for 104 extension workers, 57 farmers scientist interaction, 31 filed days, 13 farmer's filed schools, 42 exposure visits, 2376 diagnostic filed visits, 06 Krishimela, 04 technology weeks and 37 celebration of important days, like world food day, women in agriculture day, farmers day benefitted more than 18 thousand farmers 195 SMS were sent to 6,33,077 farmers, 46 radio talks and 16 TV prorammes and 08 skill Training programme for Rural youth were conducted for 105 rural youths.

**10. Farm trails:** 15Farm trails were conducted on evaluation of Red rice varieties, Sunflower Hybrid KBSH-78 V/s KBSH-53, Redgram varieties BRG-2 and BRG-5 for higher yield,Plant geometry and growth regulators on growth, yield and seed production of radish Cv. Pusa Chetki, Varietal trial of Cow pea C-152 Vs. UAHS-28 for late *kharif* or residual moisture, Evaluation of different fungicides against inflorescence die back of arecanut,Modification of spacing and RDF recommendation for Paddy,Evaluation of insecticides against mango leaf hoppers,Evaluation of Ridge Gourd hybridsand standardization of date of sowing in castorinvolving 91 farmers.

#### **D. HUMAN RESOURCES**

Out of 967 sanctioned posts, 407 posts have been filled and 561 are vacant. Proposal to fill-up 109 posts has been submitted to Government for Creation of new posts in the University Administration.

**E. CIVIL WORKS**, have been undertaken for 63.15 crores, Rs. 28.98 crores works are completed and Rs. 34.17 crores on going works at different campus of the University during the present year.

#### **PERFORMANCE BUDGET -2018-19**

#### **BUDGET ALLOCATION AND EXPENDITURE INCURRED DURING 2018-19**

(Rs.in lakhs)

Sl No.	Particulars	2018-19		
		Budget 2018-19	Grant released 2018-19	Expenditure upto March 2019
1	Grant-in Aid - Daily Wages 2415-80-277-5-01-033	100.00	122.43	122.43
2	Grant-in Aid - Pay and Allowances 2415-80-277-05-01-101	3059.00	3139.45	3139.45
3	Grant-in Aid - General 2415-80-277-05-01-103	2295.00	2295.00	2295.00
4	Grant-in Aid – Contract / Outsource 2415-80-277-05-01-115	513.00	513.00	513.00
5	Grant-in Aid – Pensions 2415-8-277-05-01-118	724.00	724.00	724.00
6	Grant-in Aid – Schedule Caste Sub Plan 2415-80-277-05-01-422	271.00	271.00	152.56
7	Grant-in Aid – Tribal Sub Plan 2415-80-277-05-01-423	158.00	158.00	89.66
<b>Total Amount</b>		<b>7120.00</b>	<b>7222.88</b>	<b>7036.10</b>

#### **2019-20 Budget allocation, Grants released and Expenditure up to May-2019-20**

(Rs.in lakhs)

Sl No.	Particulars	2019-20		
		Budget 2019-20	Grant released 2019-20	Expenditure upto May 2019
1	Grant-in Aid - Daily Wages 2415-80-277-5-01-033	133.00	33.25	17.19

Sl No.	Particulars	2019-20		
		Budget 2019-20	Grant released 2019-20	Expenditure upto May 2019
2	Grant-in Aid - Pay and Allowances 2415-80-277-05-01-101	3099.00	774.75	512.20
3	Grant-in Aid - General 2415-80-277-05-01-103	2232.00	558.00	180.28
4	Grant-in Aid – Contract / Outsource 2415-80-277-05-01-115	504.00	126.00	55.12
5	Grant-in Aid – Pensions 2415-8-277-05-01-118	922.00	230.50	224.56
6	Grant-in Aid – Schedule Caste Sub Plan 2415-80-277-05-01-422	264.00	66.00	1.61
7	Grant-in Aid – Tribal Sub Plan 2415-80-277-05-01-423	154.00	38.50	0.81
	<b>Total Amount</b>	<b>7308.00</b>	<b>1827.00</b>	<b>991.77</b>

#### PROGRAMMES FOR THE YEAR 2017-18 AND 2018-19

(Rs.in lakhs)

Sl No.	Particulars	Revised Budget 2017-18	Budget 2018-19
(1)	(2)	(3)	(4)
<b>I. Daily Wages(Head of A/c - 2415-80-277-05-01-033)</b>			
1	Pay and Allowances to the Daily Rated Employees	0.00	100.00
	<b>Total-I</b>	<b>0.00</b>	<b>100.00</b>
<b>II. Pay and Allowance (Head of A/c - 2415-80-277-05-01-101)</b>			
1	Pay and allowances for filled up posts <ul style="list-style-type: none"> <li>➤ There are 863 sanctioned posts under different categories out of which 354 posts are filled up and rest 509 posts are vacant.</li> <li>➤ Pay &amp; Allowances required for filled up posts and payment towards contract teachers and service personnel engaged against the vacant posts.</li> <li>➤ including 11% Leave Salary Contribution on Basic pay</li> </ul>	2840.88	3059.00

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
2	Pay and Allowances for AICRP scheme posts 25% (State Share)	43.36	
3	<b>Medical Allowances:</b> Reimbursement claims for major diseases like Kidney Transplantation, Cancer, bypass surgery etc.	50.00	
4	<b>Travelling Allowance:</b> Travelling allowance for college staff, Research stations and Extension Units are spread over 7 districts of Karnataka and they are far away from the head quarter. Frequently the teachers /Scientists have to travel to attending meetings, seminars and to demonstration fields of the farmers etc.	50.00	
5	<b>Arrears due to promotion of teachers under CAS 2006</b> As per ICAR/UGC guidelines there is provision for promotion of teachers under CAS Schemes.	80.00	
6	43 Nos. Regularized DRE Salary	63.76	
<b>Total-II</b>		<b>3128.00</b>	<b>3059.00</b>
<b>III. Creation of Assets (Head of A/c - 2415-80-277-05-01-102)</b>			
1	For new civil works.	2000.00	0.00
2	Establishment of University New Campus at Iruvakki, Sagara Taluk	9767.00	0.00
	<b>Total-III</b>	<b>11767.00</b>	<b>0.00</b>
<b>IV. General</b>			
<b>IV.A.Agricultural Education(General) (Head of A/c - 2415-80-277-05-01-103)</b>			
<b>1.On Going Programmes</b>			
1	Strengthening of PG Research Centre at AHRS, Bavikere	30.00	0.00
2	Strengthening of lab facilities for Biotechnology work in the university	100.00	55.00
3	Proposal for starting of certificate course on protected cultivation at College of Horticulture, Mudigere	25.00	0.00
4	Capacity building of Teachers/ Scientists for agriculture research in frontier areas of science	20.00	25.00
5	e-management and digitalization of the libraries in different campuses of the university	40.00	0.00

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
6	<b>Infrastructural Development in the existing college campuses:</b> Purchase of Furniture, Lab, Farm, Office equipments and implements and Maintenance of building.	470.00	300.00
7	<b>Contingency expenditure of existing colleges</b>	300.00	300.50
	<b>Total-IV A (1)</b>	<b>985.00</b>	<b>680.50</b>
<b>2.New Programmes</b>			
1	Strengthening and Up gradation of UG & PG Class Rooms of different Colleges under UAHS, Shivamogga	0.00	15.00
2	Strengthening and Up gradation of Seminar Halls of different Colleges under UAHS, Shivamogga	0.00	10.00
3	Installation of CCTV to different Colleges under UAHS, Shivamogga	0.00	6.00
4	Up gradation of Computers & Accessories/UPS, Software and Internet connection to the different Colleges of UAHS, Shivamogga	0.00	30.00
5	Starting of new Certificate Courses in Education at different Colleges of UAHS, Shivamogga	0.00	20.00
6	Strengthening and Improvement of Nursery facilities of different Colleges of UAHS, Shivamogga	0.00	10.00
7	Establishment of Different Demonstration Units of all Colleges under UAHS, Shivamogga.	0.00	40.00
8	Upgradation and Extending Computer facilities/Internet/UPS/ CCTV/TV for Hostels of UG & PG of different College campuses of UAHS, Shivamogga	0.00	10.50
9	Upgradation of Staff rooms & Offices of different Colleges of UAHS, Shivamogga	0.00	5.00
	<b>Total-IV A (2)</b>	<b>0.00</b>	<b>146.50</b>
<b>IV.B. Agricultural Research (General) (Head of A/c - 2415-80-277-05-01-103)</b>			
<b>1. On Going Programmes</b>			
1	Cashew improvement programmes at AHRS, Bavikere	40.00	0.00
2	Research studies on soil fertility management for yield maximization in paddy and maize in malnad region	10.00	0.00
3	Establishment of value addition centre on agricultural and horticultural crops at Shivamogga	40.00	0.00

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
4	Establishment of Honey development and processing unit at Shivamogga Research Station	20.00	0.00
5	Establishment of Mother Block Units for the production of quality planting material at four Research Stations of the University	20.00	0.00
6	Establishment of Centre of Excellence in Maize at AHRS, Kathalagere	5.00	0.00
7	Strengthening of Infrastructural Facilities for Production and distribution of quality seed and planting material at UAHS, Shivamogga	75.00	0.00
8	Centre for Climate Resilient Agriculture	25.00	10.00
9	Development of rice hybrids suitable for command area (zone-7) of Karnataka	15.00	10.00
10	Development of high yielding varieties of Horsegram and Field bean suitable to southern transitional zone of Karnataka	8.00	10.00
11	Identification and popularization of elite high yielding genotypes of Bengalgram suitable for <i>kharif</i> and <i>rabi</i> season cultivation in the central dry zone of Karnataka	5.00	10.00
12	Establishment of Pesticide Residue Laboratory	50.00	10.00
13	Crop Improvement cum Demonstration of Anthurium under hill zone of Karnataka (Mudigere and Madikeri)	20.00	10.00
14	Seasonal Incidence and management of tea mosquito bug, <i>Helopeltis antonii</i> in cocoa in Malanad region	10.00	10.00
15	Problems of nutritional imbalance, uptake and interaction of inorganic elements on severity of yellow leaf disease of arecanut	8.00	5.00
16	Land Resource Inventory of UAHS research stations for sustainable land use	10.00	10.00
17	Investigation on the ecological aspects and eco-friendly management of Areca nut white grub ( <i>Leucopholis</i> spp.) in malnad and costal Karnataka	8.00	10.00
18	Development of Agriculture University Farms for increasing Research productivity at ZAHS, (Shivamogga and Brahamavar) Mudigere and Hiriyur	20.00	25.00
19	Investigations on newly emerging nematode diseases of maize and their eco-friendly management in Shivamogga and Davanagere districts	8.00	10.00

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
20	Development and utilisation of Organic Matter Decomposing Microbial Consortia for effective decomposition of Areca husk and Banana Pseudostem in Malnad region of Karnataka	8.00	5.00
21	Collection, characterization and maintenance of germplasm of bird's eye chilli ( <i>capsicum frutescens</i> L.) – an under exploited spice crop	5.00	5.00
22	Standardization of water soluble fertilizers on yield maximization of important pulse crops of southern transitional zone of Karnataka	5.00	8.00
23	Re Design and Development of multipurpose power tiller for Crop production-Special Reference to paddy	10.00	0.00
24	Standardizing the use of robotics for spraying in high value plantation crops	10.00	0.00
25	Research and development support for Staff Research Project for addressing time bound regional specific issues giving due importance for PG research	60.00	70.00
26	<b>Infra-structural development in existing 14 Agricultural &amp; Horticultural Research Stations and Extension Education Units :</b> Purchase of Furniture, Lab, Farm, Office equipments and implements and Maintenance of building.	165.00	300.00
27	Office contingencies; Water and Electrical charges, telephone charges, maintenance of vehicles, chemicals & Glassware, Sports, Library Books, Labour charges, Seeds & Manures Extra Boarding chares and equipments etc., in different Colleges and Research Stations.	200.00	400.00
<b>Total-IV-B(1)</b>		<b>860.00</b>	<b>918.00</b>
<b>2. New Programmes</b>			
1	Identification of regional specific Pearl millet varieties/hybrids for dry land situation	0.00	10.00
2	Genome Wide Association Study (GWAS) for submergence tolerance in Rice ( <i>Oryza sativa</i> L)	0.00	15.00
3	Identification of indeterminate, productive and photoinsensitive types of Dolichus suitable for kitchen gardens of Karnataka	0.00	10.00
4	Development and utilization of silicate solubilizing microbial consortia for quality rice production of Rice in Malnad region of Karnataka	0.00	7.50

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
5	Development of small machineries for small farmers at Shivamogga	0.00	10.00
6	Improved Agro techniques for yield maximization of Direct Seeded Rice (DSR) under limited water conditions at UAHS Shivamogga	0.00	7.50
7	Surveying of Resistant Cashew Varieties/Predator against Cashew Stem borer	0.00	7.50
8	Dissemination of good agricultural practices and post harvest management in Ginger with special reference to small and marginal farmers	0.00	7.00
9	Population dynamics and eco friendly management of Rugose Spiralling Whitefly ( <i>Aleurodicus rugioperculatus</i> , Martin) menace in coastal Karnataka	0.00	7.50
10	Development of Yellow Leaf resistant Areca nut through biotechnological approaches	0.00	10.00
11	Conservation and promotion of cultivation of endangered medicinal plants of Karnataka among farmers to improve livelihood and sustainability	0.00	7.50
12	Influence of water soluble fertilizers on yield maximization of oilseed crops	0.00	7.50
13	Effect of feeds on production performance of (Gift) tilapia in water storage tanks	0.00	7.50
14	Species Diversity of Mealybugs in Major Plantation crops and their effective management	0.00	7.50
15	Development and Assessment of Mobile App (ICT Tool) on Areca nut Improved Management Practices	0.00	5.00
16	Development of high yielding dwarf and semi tall hybrids in Areca nut for Malnad and Maidan regions of Karnataka	0.00	10.00
17	The study of suitability and economic analysis of aromatic crops in hill zone of Karnataka	0.00	7.50
18	Study on use of Grey water irrigation in agriculture and its effects on soil properties and plant growth	0.00	10.00
19	Standardisation of water and nutrient requirement of aerobic rice STZ situation	0.00	10.00

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
20	Processing and value addition centre at Hiriyur, Shivamogga, Brahmavar and Kathalagere	0.00	40.00
21	Climatic resilient crop management practices for higher productivity in chilli under farmers participatory mode approach	0.00	7.50
	<b>Total-IV-B (2)</b>	<b>0.00</b>	<b>212.00</b>
<b>IV.C. Agricultural Extension(General) (Head of A/c - 2415-80-277-05-01-103)</b>			
<b>1. On Going Programmes</b>			
	<b>Innovative Extension Activities :</b>		
1	<ul style="list-style-type: none"> <li>• Production technology in Ginger</li> <li>• Pest &amp; Diseases of coconut &amp; Pepper:</li> </ul>	8.00	0.00
2	WILT MANAGEMENT IN BLACK PEPPER:	4.00	4.00
3	Demonstration of managing the Pests/diseases of pomegranate through crop management practices	10.00	20.00
	<b>Short term certificate Courses</b>		
4	<ul style="list-style-type: none"> <li>• Value addition on Food (Agri./Hort.) crops</li> <li>• Micro Irrigation</li> <li>• Bee keeping</li> </ul>	10.00 0.00 10.00	0.00 0.00 10.00
5	Demonstration on Soil acidity Management in coastal acid soils	5.00	5.00
6	Demonstrations on drought tolerant Groundnut variety for coastal district	5.00	5.00
7	Intercropping system demonstrations on Areca nut in Malnad and maiden areas	10.00	12.00
8	Pest and Disease management in vegetable crops using Bio agents and bio fertilizers	10.00	5.00
9	Ready to serve (RTS)-Mushroom Bags: An entrepreneurship for Rural Women	5.00	5.00
10	Integrated disease management in Betel vine	5.00	0.00
11	Demonstrations on High tech Horticulture in Farmers fields	5.00	0.00
12	Onion Seed Village/ Onion seed production in seed village concept	5.00	5.00
13	Large Scale Demonstration of Fodder varieties	3.00	5.00

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
14	Hydroponics for green fodder production	20.00	0.00
15	Establishment of Agricultural & Technology Information centres in different zones: (ATIC)	0.00	0.00
16	Establishment of crop technology and IFS demonstrations units in farmers fields in participatory mode	80.00	40.00
	<b>Infrastructural Development in the existing Extension Unit</b>	200.00	100.00
	<b>Contingency expenditure of existing Extension Unit</b>	77.00	100.00
	<b>Total-IV-C(1)</b>	<b>472.00</b>	<b>316.00</b>
<b>2. New Programmes</b>			
	Demonstration cum Training for Farmers of Coastal District on Coconut dried fronds for Compost and Vermi-compost Production	0.00	5.00
	Demonstration of multi-storied cropping system in Rubber	0.00	4.00
	Nutritional Security Through Intensive Millets Promotion In Shivamogga District Of Karnataka State	0.00	7.00
	ICM in Areca nut	0.00	6.00
	<b>Total-IV-C.2</b>	<b>0.00</b>	<b>22.00</b>
	<b>Total-IV=[IV(A1+A2)+IV(B1+B2)+IV(C1+C2)]</b>	<b>2317.00</b>	<b>2295.00</b>
<b>V. Contract / Outsource (Head of A/c - 2415-80-277-05-01-115)</b>			
	Contractual staff salary	0.00	513.00
	<b>Total – V</b>	<b>0.00</b>	<b>513.00</b>
<b>VI</b>	<b>Pensions (Head of A/c - 2415-80-277-05-01-118)</b>		

<b>Sl No.</b>	<b>Particulars</b>	<b>Revised Budget 2017-18</b>	<b>Budget 2018-19</b>
1	<b>Retiring staff for the year 2018-19</b> Leave encashment for teaching and non teaching staff	185.00	114.58
2	Pension fund for payment of pension to pensioners and family pensioners.	500.00	450.00
3	12.50% Pension Contribution of Regular employees on Basic and 10% NPS for regular employees on Basic Pay + DA	135.00	159.42
	<b>Total-IV</b>	<b>820.00</b>	<b>724.00</b>
<b>VII</b>	<b>Schedule caste Sub Plan (Head of A/c - 2415-80-277-05-01-422)</b> Contingent grants payable to the SC students of UAHS Shivamogga	0.00	271.00
	<b>Total-VII</b>	<b>0.00</b>	<b>271.00</b>
<b>VIII</b>	<b>Tribal Sub Plan (Head of A/c - 2415-80-277-05-01-423)</b> Contingent grants payable to the SC students of UAHS Shivamogga	0.00	158.00
	<b>Total-VIII</b>	<b>0.00</b>	<b>158.00</b>
<b>VIX</b>	<b>NABARD (RIDF) (Head of A/c – 4401-00-800-1-02-436)</b> <b>Total-VIX</b>	<b>401.00</b>	<b>0.00</b>
	<b>GRAND TOTAL(I+II+III+IV+V+VI+VII+VIII+VIX)</b>	<b>18433.00</b>	<b>7120.00</b>