PROCEEDINGS OF THE DIRECTOR OF AGRICULTURE,
DIRECTORATE OF AGRICULTURE DEVELOPMENT AND FARMERS' 
WELFARE, VIKAS BHAVAN, THIRUVANANTHAPURAM

(Present : Sunil Kumar A.M.)

Sub: Annual Plan 2018-19 – Scheme for Development of Pulses and Tubers-
Continuous Administrative sanction accorded – orders issued- reg:

Read: 1) G.O.(Rt)No. 378/2017/AD dated.04.04.2017
2) Annual Plan 2018-19

Order No. TP(2) 16286/2018

Dated: 11.04.2018

Government of Kerala, vide order read 1st above accorded Administrative
sanction for the implementation of the scheme Development of Pulses and
Tubers during the year 2017-18 for an amount of Rs.200.00 lakhs included in
Green Book.

As per the Annual Plan 2018-19 the scheme is proposed to be continued
during the current financial year with a budget allocation of Rs.250.00 lakhs
abiding by the norms and conditions of the Government Order read 1st above.

A) Development of Tubers

Objectives

➢ To improve production and productivity of tuber crops
➢ To popularise promising tuber crop varieties developed by CTCRI.
➢ To popularize cultivation of underutilized tuber crops.
➢ To increase farmers income through high returns per unit area.
➢ To make available starchy and calorific food items to the starving
  section of the society.
➢ To support the associated food processing industry.

The scheme will be implemented by the Agriculture Development and
Farmer's Welfare Department, in association with CTCRI, with the following
components.
1) Production and supply of source planting materials by CTCRI, Sreekaryam, Thiruvananthapuram (Rs.25.00 lakhs)

Planting materials of new and promising varieties of tuber crops such as tapioca, amorphophallus, greater yam, lesser yam, colocasia, sweet potato, arrow root etc will be procured from CTCRI and distributed to farmers for further multiplication through Seed Villages. Source Planting materials required by the Department will be produced and supplied by CTCRI for enabling time bound cultivation, based on indent placed by the Department. An amount of Rs.25.00 lakhs is earmarked for this purpose.

2) Seed Multiplication through Seed Villages (Rs.112.50 lakhs)

The source planting materials of promising varieties of tuber crops procured from CTCRI will be multiplied in a scientific manner in selected panchayats of the State through farmers’ collectives, viz. 'Tuber Clusters', with the technical guidance of CTCRI to produce adequate quantities of quality planting materials for further distribution for area expansion. Such panchayats will be designated as 'Seed Villages'. It is proposed to select around 22 Seed Villages across the State in appropriate locations for scientific multiplication of various tuber crops, utilising seed material procured from CTCRI. The seed multiplication will be carried out in appropriate locations as demonstration plots following all scientific management practices with the technical guidance of CTCRI. Necessary observations from planting to harvest will be taken and recorded by the agricultural officers concerned to evaluate the performance of different varieties and their suitability to various locations.

It is proposed to multiply the tuber crops in an area of 750 ha in appropriate locations across the State by providing assistance @ Rs.15000/- per ha, including free supply of planting materials. Preference will be given to traditional tuber growing areas. The cost of cultivation of tuber crops comes to around Rs. 50000/- per hectare and assistance will be provided to the farmers @ Rs.15000/- per hectare, which is 30% of the cost of cultivation. An amount of Rs.112.50 lakhs is set apart for this purpose.

3) Seed Multiplication in Tribal Areas (Rs. 25.00 lakhs)

The seed multiplication programme will also be carried out in various tribals areas of the State under the close supervision of department and CTCRI. Emphasis will be given to multiplication of less water requiring tuber crops. Eco friendly
crop management methods like Vrukshayurveda, PPFO technology, etc alone will be adopted in tune with tribal culture, after taking them into confidence. Necessary observations from planting to harvest will be taken and recorded by the agricultural officers concerned to evaluate the performance of different varieties and their suitability to various locations.

It is proposed to multiply the tuber crops in an area of 125 ha in tribal areas of the State by providing assistance @ Rs.20000/- per ha, including free supply of planting materials. An amount of Rs.25.00lakhs is set apart for this purpose.

The planting materials produced under this programme will be procured by the department for popularisation across the State through area expansion programme.

4) Training

In order to create awareness among farmers on the scientific management practices to be followed for seed multiplication of tuber crops, it is proposed to organise field oriented training programmes with the participation / guidance of CTCRI. Such training programmes will be organised as part of the Vegetable Development Programme 2018-19.

Mode of implementation

Seed villages will be finalised through mutual discussion between department and CTCRI. Beneficiaries will be identified and Tuber Clusters formed under the initiative of the Agricultural Officer of concerned panchayaths. Agricultural Officers and Agricultural Assistants will conduct field verification of farmer’s field and give necessary directions for successful cultivation of crops. They will also systematically maintain record of field observations ready for verification at any time. Awareness programme will be conducted to popularize the scheme and to make aware of the impact of scheme in co-ordination with CTCRI. Documentation of entire activities and yield data and other impact parameters will be recorded.

An abstract of the programme is furnished below.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Component</th>
<th>Physical Target</th>
<th>Amount (Rs. In lakhs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Production and supply of source planting materials by CTCRI, Sreekaryam, Thiruvananthapuram</td>
<td></td>
<td>25.00</td>
</tr>
<tr>
<td></td>
<td>Seed Multiplication through Seed Villages (Rs.15000/ha)</td>
<td>750 ha</td>
<td>112.50</td>
</tr>
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<td>------------------------------------------------------</td>
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</tr>
<tr>
<td>3</td>
<td>Seed Multiplication in Tribal Areas(Rs.20000/ha)</td>
<td>125 ha</td>
<td>25.00</td>
</tr>
<tr>
<td>4</td>
<td>Training (will be taken up under VDP 2018-19)</td>
<td></td>
<td>0.00</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>162.50</strong></td>
</tr>
</tbody>
</table>

(Rupees One Hundred and Sixty Two Lakhs and Fifty Thousand Only)

**B) Development of Pulses**

**Objectives:-**

The main objectives of the scheme are the following.

1. To promote pulses cultivation in the traditional pulse growing tracts of the state to bring back the original status of production
2. To increase the income from farming by way of utilising the rice fallows after first and second crop.
3. To serve as the catch crop in paddy fields after paddy cultivation.
4. To enrich the soil with rhizobium and organic matter by way of cultivating leguminous crops.
5. To promote fodder cowpea in summer rice fallows to ensure nutritive feed for the cattle utilizing residual soil moisture and also replenish soil fertility

**1. Crops proposed**

The crops proposed for the programme are black gram, cow pea, French bean, green gram, horse gram, Red gram and Soya Bean.

**2. Varieties suited for the programme**

The important varieties are listed below:

<table>
<thead>
<tr>
<th></th>
<th>Black Gram</th>
<th>Syama, Sumanjana, T-9, Co-2, S-1, TAU-2, TMV-1, KM-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Cowpea</td>
<td>Kanakamony, Krishnamony, Shubhra, Amba, Fodder Cowpea, etc</td>
</tr>
<tr>
<td>3</td>
<td>French Beans</td>
<td>Kentucky Wonder, Contender, Premier, Arka Komal etc.</td>
</tr>
</tbody>
</table>
3. Management of the crop

Suitable management practices as per the Package of Practices of Kerala Agricultural University would be followed for maximising yield and income. Seed treatment with Rhizobium shall also be carried out. The crop residue after harvest would be ploughed in to the field for nutrient enrichment.

4. Promotional incentives.

The crucial input regarding pulses cultivation is the seeds. It is estimated that about ₹ 20,000/- is required for cultivating an area of one hectare including the cost of seeds, fertilisers, manures and land preparation. About half of the estimated cost of cultivation amounting to ₹ 10,000/- per ha may be provided as subsidy. It is proposed to cover an area of 875 ha under pulses cultivation in Kerala, utilizing an amount of Rs. 87.50 lakhs.

Financial Outlay

During the current financial year, an amount of Rs.250.00 lakhs ((Rupees Two hundred and Fifty lakhs only) is earmarked for the scheme 'Development of Pulses and Tubers under head of account 2401-00-112-96 Plan. Component wise breakup is summarized as follows.

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Components</th>
<th>Physical Target</th>
<th>Amount (Rs. in lakhs)</th>
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<td>A)</td>
<td>Development Tuber crops</td>
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<tr>
<td></td>
<td><strong>Sub Total</strong></td>
<td></td>
<td>162.50</td>
</tr>
<tr>
<td>B)</td>
<td>Development of Pulses</td>
<td>875 ha</td>
<td>87.50</td>
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<td></td>
<td><strong>Grand Total</strong></td>
<td></td>
<td>250.00</td>
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</tbody>
</table>

(Rupees Two hundred fifty lakhs only)

In the above circumstances, Continuous Administrative Sanction is hereby accorded and orders issued for the implementation of the scheme 'Development of Pulses and Tubers during 2018-19 for an amount of **Rs.250.00 lakhs (Rupees Two hundred and Fifty lakhs only)**, debiting expenditure to head of account 2401-00-112-96 Plan. The scheme shall be implemented abiding by the terms and conditions stipulated in the Government Order read above.

Since agriculture is a season based activity, timely implementation of the scheme has to be ensured by arranging the required inputs in advance and this should be reflected in the monthly booking of expenditure from April 2018 onwards.

Monthly progress report should invariably contain component wise physical and financial targets and achievements and the stage of implementation of each component. Since the Government is giving emphasis to women participation and gender budgeting, maximum efforts have to be made to include women beneficiaries in the scheme. The number of women beneficiaries and the amount utilised for such beneficiaries (component wise) should also be separately shown in the monthly progress report.

Sd/-

Director of Agriculture

Deputy Director of Agriculture (Plg.)

To

TC section of the directorate for issue of detailed working instructions

Copy to

TA to Director of Agriculture,
CA to All Additional Directors of Agriculture of the HQ, State Agricultural Engineer, Senior Finance Officer for information
IT section of the directorate for posting on the website