



ABSTRACT

Agriculture - Cotton - Administrative approval and financial sanction for Implementation of Tamil Nadu Cotton Cultivation Mission during 2020-2021 - Orders - Issued.

Agriculture (AP4) Department

G.O.(Ms) No.151

Dated: 22.07.2020

திருவள்ளூர் ஆண்டு -2051

சார்வாரி வருடம், ஆடி 7

1. G.O.(Ms)No.11, Agriculture (AP4) Department, Dated 13.01.2015.
2. G.O.(Ms)No.134, Agriculture (AP4) Department, Dated 04.7.2019.
3. From the Director of Agriculture Letter No.CDC2/57970/2019, dated 20.04.2020

ORDER:

In the Government Order 1st read above orders were issued to implement the Tamil Nadu Cotton Cultivation Mission at an outlay of Rs.50.00 crore during 2014-15 and and the scheme is continued upto 2019-20 with the objective of increasing the Cotton area to 6 lakh acres over a period of 5 years thereby increasing the Cotton production in order to bridge the gap between the demand and supply for the cotton spinning mills of the State.

2. Due to implementation of the Scheme, Cotton Area and Productivity is in increasing phase except during 2016-17 and 2018-19 due to poor rainfall during peak sowing season.

3. In the letter third read above, the Director of Agriculture has stated that Cotton crop is normally cultivated in an area of around 4.0 lakh acres with an average production of 3-4 lakh bales annually. For increasing the production and productivity of Cotton, interventions such as Production and distribution of quality varietal seeds, Micro irrigation, Mechanization, Improved agronomic practices, Integrated Irrigation, Nutrient, Weed and Pest management approaches were executed in the major cotton growing districts by the department.

4. Tamil Nadu is a pioneering State in producing Long and Extra Long Staple cotton in the country. Farmers are encouraged to grow

high-yielding cotton varieties with superior fibre quality like SVPR 4, SVPR 5, Co 14, Surabhi, and Suraj to get better price for cotton. The staple length constitutes the basic norm for evaluating quality of cotton in the trade by the consuming textile industry and fixation of Cotton procurement price.

5. Cotton crop not only provides fibre for the textile industry, but also plays a vital role in the cattle feed and oil industries with its seeds rich in oil and protein. Thus, cotton has been a premier agricultural crop, playing a major role in the national economy both in rural and urban sectors. Hence as a source of natural fibre, cattle feed, and oil, it is imperative to increase the Cotton production in the state.

6. The Director of Agriculture further stated that during the year 2019-20, the scheme was implemented with a financial outlay of Rs.11 Crores with an objective of increasing the area under Extra Long Staple Cotton to 30,000 Ha.

7. Cotton crop consumes 55% of total pesticide consumption share, accounting for 40% of total production costs. This fact signifies the impact of insect pests, diseases, and increased agrochemical usage in cotton cultivation. Hence, to sustain the cotton production in the State, it is imperative that the productivity is driven by Integrated Pest Management Approaches which can be adopted easily by farmers.

8. During the Budget session, the Hon'ble Minister (Agriculture) has, interalia made the following announcement on 24.03.2020:-

“பல்வேறு பயிர்ப்பாதுகாப்பு முறைகளை உள்ளடக்கிய ஒருங்கிணைந்த பூச்சி மேலாண்மை முறைகளை பருத்தி விவசாயிகளிடையே பிரபலப்படுத்துவதற்காக 2020-2021-ம் ஆண்டில் ரூ.8 கோடி நிதி ஒதுக்கீடு செய்யப்படும்.”

9. In order to increase the **high-quality cotton production** in Tamil Nadu, to give better remunerative price to farmers and to meet the growing demand of Cotton spinning mills, it is proposed to implement the Tamil Nadu Cotton Cultivation Mission with a special focus on **Integrated Pest Management** over 10,000 Ha during 2020-21 with the financial outlay of Rs. 11.00 Crore with the following components through Agriculture Department.

I. Promotion of ELS/variatal cotton

1. Promotion of Seed Production of Extra Long Staple (ELS)/other Varietal Cotton seeds

Considering the fact that 90% of the area is covered under Bt cotton hybrids and to maintain the 10% varietal cotton area, the State Department of Agriculture is implementing a Seed Multiplication Programme under which certified seeds of varieties are produced and distributed to the farmers to cover 10% of total cotton area. Quality seed is the vital input for **high-quality cotton production**. The varieties cultivated in Tamil Nadu are MCU.5, MCU 5 VT, SVPR.2, MCU.7, SVPR.3,

SVPR.4, SVPR 5, SVPR 6, Supriya, Surabhi, Suraj, MCU12, MCU 13, CO 14, CO 15, CO 17, and Suvin etc. Hence, it is proposed to provide assistance under seed component for the seeds of cotton varieties / hybrids, **irrespective of the year of release.**

It is proposed to provide assistance for the production of 20 MT of Foundation/certified seeds of **Extra Long Staple (ELS)/other Varietal Cotton seeds** through AEC from the seed farm in farmers holdings by the Department @ 25 % of procurement price limited to Rs.60/- per kg.

- a. Physical : 20 MT
- b. Fund required : Rs. 12.00 lakh
- c. Rate of subsidy : 25% of the procurement cost limited to Rs.60/ per Kg, whichever is less.

2. Distribution of Certified Extra Long Staple /other Varietal Cotton Seeds:-

It is proposed to provide assistance for the distribution of 20 MT of Foundation/Certified seeds of cotton varieties to farmers by the Department @ 50% of cost limited to Rs.110/- per kg, whichever is less.

- a. Physical : 20 MT
- b. Fund required : Rs. 22.00 lakh
- c. Rate of subsidy : 50% of the Sale price limited to Rs.110/ per Kg, whichever is less.

II. Assistance for Critical Inputs to Increase Productivity

1. Distribution of pulses seeds for intercropping:-

Cotton intercropped with pulses will maintain the productivity mainly by reducing the weed growth and adding organic matter besides saving Nitrogen requirement of 20 to 30 Kg/Ha. Pulses as intercrop gives an additional yield of 120 kg/ha than mono cropping. **Intercropping with pulses in cotton to cover 5700 Ha (seed rate 10 Kg/Ha) will be promoted by Distribution of certified pulses seeds to farmers by the department @ 50% subsidy limited to Rs. 50/- per Kg.**

- a. Physical : 57 MT
- b. Fund required : Rs. 28.50 lakh
- c. Rate of subsidy : 50% of the Sale price limited to Rs.50/ per Kg, whichever is less.

2. Distribution of MN mixture:-

The micronutrients essential to cotton are zinc, iron, manganese, copper, boron, molybdenum and chlorine. Widespread deficiencies of micronutrients are commonly observed in the intensive cropping zones of major cotton growing regions. Cotton being deep rooted removes large quantities of nutrients from the soil profile. For the long term sustainability of cotton and to increase the productivity of cotton, it is essential to replenish the soil with the balanced amount of nutrients. Hence it is programmed to distribute MN mixtures through AEC for **25,000 Hectares @ 50% subsidy amount limited to Rs. 500/- per ha.**

- a. Physical : 25,000 Ha
- b. Fund required : Rs. 125.00 lakh
- c. Rate of subsidy : 50% of the Sale price limited to Rs.500/ per Hectare, whichever is less.

3. Distribution of Liquid Bio fertilizers

Considering the escalating cost of fertilizers and the need to utilize all available nutrient sources, it is rational to use fertilizers in conjunction with appropriate biofertilizers and organic manures. **In cotton, application of biofertilizers such as nitrogen-fixing Azospirillum and phosphorus-solubilizing Phosphobacteria increases the yield by 25 per cent.** Hence, it is programmed to distribute liquid formulation of biofertilizers through AEC to farmers for **25,000 Hectares @ 50% subsidy amount limited to Rs. 150/- per ha.**

- a. Physical : 25,000 Ha
- b. Fund required : Rs. 37.50 lakh
- c. Rate of subsidy : 50% of the Sale price limited to Rs.150/ per Hectare, whichever is less.

4. Assistance for Spraying of Magnesium sulphate

Magnesium deficiency symptoms appear on the lower leaves of cotton at 25-30 days after sowing and leaves shed prematurely, showing purplish red leaves with green veins resulting in less productivity. Foliar application of 0.5% Magnesium sulphate will rectify the magnesium deficiency in cotton crop and sustain higher crop productivity and breaks crop yield barriers. Hence, it is proposed to provide assistance for 0.5% Foliar application of Magnesium sulphate in cotton at 50% of the total cost of nutrient including spraying cost limited to Rs. 300/- per Ha as back-ended subsidy.

- a. Physical : 25,000 Ha
 b. Fund required : Rs. 75.00 lakh
 c. Rate of subsidy : 50% of the total cost including spraying cost, limited to Rs.300/- per Ha, whichever is less as back-ended subsidy.

III. Integrated Pest Control Approaches

1. Integrated Pest Management (IPM) demonstration in cotton

The major constraint for productivity enhancement in cotton is attributed to indiscriminate usage of plant protection chemicals. To increase Cotton Production and Productivity in the State, the concepts of Integrated Pest Management involving various methods of crop protection like cultural, mechanical, biological and chemical control is essential for sustainable cotton production in the State.

Hence, it has been programmed to conduct Demonstration on Integrated Pest Management involving technologies like Deep ploughing, Bund cropping with pulses, Seed treatment with Bio-control agents, Yellow Sticky traps, Pheromone traps, Nuclear Polyhedrosis Virus, Neem-based botanicals, and Weedicides covering 10,000 Ha under Tamil Nadu Cotton Cultivation Mission during 2020-2021 with the financial outlay of Rs. 8.00 Crore.

Cafeteria of Interventions undertaken under IPM demonstrations per Hectare

S. No.	Interventions	Allocation Rs./ Ha	Source of Input
1	Deep Ploughing in summer at farmer's cost	-	
2	Bund cropping with Pulses @ 3 Kg/Ha.	300	Depot
3.	Seed Treatment and Soil Application of Trichoderma viride/Pseudomonas @ 2.5 Kg/Ha	500	Depot
4	Yellow sticky traps @ 25 Nos./ha – Rs. 50/No.	1250	DLPC
5	Pheromone traps @ 12 traps/ha – Rs. 144/No	1725	DLPC
6.	NPV @ 250 LE/ha (250 mL twice at 7th and 12th week after sowing) – Rs.500/250 mL	1000	Depot
7.	Neem-based botanicals - Neem oil @ 3.0 liters per Ha - Rs. 330/ltr + Teepol (500 ml per Ha).	1000	Back-ended

8.	Weedicides - Pendimethalin @ 3.3 liters per Ha - Rs.550/ltr	1725	Back- ended
9.	Contingencies, POL, Field day, Publicity materials, documentation etc.,	500	
	Total cost norm for One ha.	8000	

- a. Physical : 10,000 Ha**
b. Fund required : Rs. 800.00 lakh
c. Rate of subsidy : Rs. 8000/Hectare

10. The Director of Agriculture has, therefore, requested the Government to consider the proposal for implementing the Tamil Nadu Cotton Cultivation Mission with a budget allocation of Rs.1100.00 lakh during the year 2020-21 and to issue the financial approval. He has also requested to grant permission to utilize the savings in any of the proposed components by diverting to some other needy components in order to utilize the State Fund effectively.

11. In view of the announcement of Hon'ble Minister (Agriculture), the Government after careful examination of the proposal of the Director of Agriculture hereby accord administrative approval and sanction a sum of Rs.1100.00 lakh (Rupees eleven crore only) for implementing the Tamil Nadu Cotton Cultivation Mission during the year 2020-21 as detailed in the Annexure to this order through Agriculture Department, in Major cotton growing districts such as Cuddalore, Villupuram, Vellore, Thiruvannamalai, Salem, Namakkal, Dharmapuri, Krishnagiri, Coimbatore, Thiruppur, Erode, Tiruchirapalli, Perambalur, Ariyalur, Thanjavur, Thiruvarur, Nagapattinam, Madurai, Theni, Dindigul, Ramanathapuram, Virudhunagar, Sivagangai, Tirunelveli and Thoothukudi.

12. The expenditure sanctioned in para 10 above shall be debited under the following head of account:-

2401-00-Crop Husbandry-108 Commercial Crops - State's
expenditure - KZ Tamil Nadu Cotton Cultivation Mission - 309
Grants -in -aid - 03 Grants for Specific Schemes"

(IFHRMS DPC 2401-00-108-KZ-30903).
(DPC 2401-00-108-KZ 0932)

13. The Director of Agriculture is authorized to draw and disburse the amount sanctioned in para 10 above to the concerned.

14. The Director of Agriculture is directed to remit the savings in any of the component into Government account.

15. The Director of Agriculture is also directed to submit the Quarterly progress report of physical and financial achievements on Cotton production under Tamil Nadu Cotton Cultivation Mission to the Government without fail.

16. This order issues with the concurrence of Finance Department vide its U.O.No.21615/Finance (Agri)/2020, Dated 18.07.2020.

(BY ORDER OF THE GOVERNOR)

GAGANDEEP SINGH BEDI

Agricultural Production Commissioner and
Principal Secretary to Government

To

The Director of Agriculture, Chennai-5.

The Principal Accountant General (AAD), Chennai-18.

The Principal Accountant General (G&SSA), Chennai-18.

The Principal Accountant General (E&RSA), Chennai-18.

The Accountant General, Chennai -18.

The Accountant General (A&E), Chennai-18.

The Accountant General (Audit), Chennai-18.

The Residential Audit Officer, Office of the Principal Accountant General (Social Sector Audit), Chennai-9.

The Pay and Accounts Officer, Chennai-8.

The Treasury Officers concerned.

Copy to:-

The Secretary to Government of India, Ministry of Agriculture, Department of Agriculture and Co-operation, Krishi Bhavan, New Delhi.

The Director, Directorate of Cotton Development, Government of India, Bhoomi Sarvekshan Bhavan, Near Centre Point School, Seminary Hills, Katol Road, Nagpur-440 013.

The Senior Private Secretary to Agricultural Production Commissioner and Principal Secretary to Government, Agriculture Department, Chennai-9.

The Agriculture (OP3) Department, Chennai - 9.(2 Copies)

The Finance (Agri) Department, Chennai-9.

The Assistant Programmer, Agriculture Department, Chennai-9.

Stock File /Spare Copies.

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Section Officer 23/7/20

ABSTRACT**Tamil Nadu Cotton Cultivation Mission Proposal for 2020-2021**

SI. NO.	COMPONENTS	UNIT	ASSISTANCE PROPOSED/UNIT	TARGET	
				PHYSICAL	FINANCE (Rs. in Lakhs)
I	Promotion of ELS/variatal cotton				
1	Promotion of Seed Production of Extra Long Staple (ELS)/other Varietal Cotton seeds	MT	25% of Procurement cost or Rs. 60,000/MT, whichever is less	20	12.000
2	Distribution of Certified Extra Long Staple /other Varietal Cotton Seeds	MT	50% of Sale Price or Rs. 1,10,000/MT, whichever is less	20	22.000
II	Assistance for Critical Inputs to Increase Productivity				
1	Distribution of pulses seeds for intercropping	MT	50% of sale price or Rs. 50,000 per MT	57	28.500
2	Distribution of MN Mixture	Ha	50% of Sale Price or Rs. 500/Ha, whichever is less	25,000	125.000
3	Distribution of Liquid Biofertilizers	Ha	50% of Sale Price or Rs. 150/Ha, whichever is less	25,000	37.500
4	Assistance for Spraying of Magnesium Sulphate	Ha	50% of Chemical including Spraying cost or Rs. 300/Ha, whichever is less as back-ended subsidy	25,000	75.000
III	Integrated Pest Control Approaches				
1	IPM demonstration in cotton	Ha	Rs.8000/Ha	10,000	800.000
	TOTAL				1100.000

GAGANDEEP SINGH BEDI
Agricultural Production Commissioner
and Principal Secretary to Government.

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Section Officer 43/2020