



## **ABSTRACT**

Forests - Tamil Nadu Innovation Initiatives ( TANII ) - To Implement the Schemes for Generation of molecular markers in *Terminalia Chebula* for genetic & phytochemical marker assisted selection of elite clones at a cost of Rs.39.00 lakh for two years under State Innovation Fund during 2018-19 and 2019-20 - Orders - Issued.

### **Environment and Forests (FR.6) Department**

G.O.(2D)No:04

Dated: 08.02.2019

விளம்பி, கை - 25

திருவள்ளூர் ஆண்டு - 2050

Read:

1. From the Principal Conservator of Forests Ref.No.J1/43976/2017, dated 31.05.2018.
2. From the Member Secretary, State Planning Commission letter No.1500/ PC/2018, Dated: 31.12.2018.

### **ORDER :**

The Principal Chief Conservator of Forests in his letter first read above, has sent a proposal to the State Planning Commission to, Implement the Schemes for Generation of molecular markers in *Terminalia Chebula* for genetic & phytochemical marker assisted selection of elite clones at a cost of Rs.39.00 lakh for two years under State Innovation Fund from the years 2018-19 and 2019-20.

2. The Principal Chief Conservator of Forests in the said proposal has stated that in the Director of WHO Traditional Medicine reported, 1993 it has been reported that 80% of the world population rely chiefly on traditional medicine, mainly plant based. In India, 70% of populations are reported using traditional medicine for primary health care. *Terminalia Chebula* is an important medicinal plant in Indian traditional medicine and it is most frequently used herb in Ayurveda. The fruit of *Terminalia Chebula* is consider as the "king of medicines" by Tibetans and second-to- none by ayurvedic apothecaries, and also held in high regard by other folk medicinal practitioners. *Terminalia Chebula* is routinely used as traditional medicine in the name of 'Kadukkaai' by tribal of Tamil Nadu in India to cure several ailments such as fever, cough, diarrhea, gastroenteritis, skin diseases, candidiasis, urinary tract infection and wound infections. From the survey it was found that, *Terminalia Chebula* has a strong effect on the wound healing, has antibacterial activity, and exhibits strong cardio protective in nature. It is extensively used in Indian System of Medicine, as anticancerous, radio-protective, anti-mutagenic, anti-diabetic and purgative. Though *Terminalia* species very important multipurpose trees (MPTs), their taxonomical

status has been very controversial as they exhibit various morphotypes scattered in various regions which may be distinct species, sub-species/varieties, ecotypes and natural hybrids. The concentration of the phytochemical contents varies among the different clones or ecotypes. Their cultivation will be benefited in Agro-Forestry sector. Large scale employment will be generated in the rural sector if it is adopted in the rural areas. Traders, exporters, farmers and self-help groups will be benefited. With the growing demand for herbal products in Indian market, this would fetch economic upliftment among the farmers. The Principal Chief Conservator of Forests has therefore proposed to implement the scheme of Generation of molecular markers in *Terminalia Chebula* for genetic & phytochemical marker assisted selection of elite clones at a cost of Rs.39.00 lakh for two years from 2018-19 and 2019-20.

3. The Member Secretary, State Planning Commission in the letter second read above has informed that after having discussion on the land availability, seedlings, the need of the outsourcing procurement rules etc, and considering the benefits to Agro Forestry Industry the proposal of the Principal Chief Conservator of Forests, Generation of molecular markers in *Terminalia chebula* for genetic & phytochemical marker assisted selection of elite clones at a cost of Rs.39.00 lakhs for two years from 2018-19 to 2019-20 has been recommended for assistance under TANIL.

4. The Government have carefully examined the proposal of the Principal Chief Conservator of Forests in detail and accord administrative sanction for a sum of Rs.39.00 lakhs (Rupees Thirty Nine Lakhs only) for Generation of molecular markers in *Terminalia Chebula* for genetic & phytochemical marker assisted selection of elite clones under State Innovation Fund for the year 2018-19 and 2019-20 and to release a sum of Rs.33.00 Lakhs (Rupees Thirty three lakhs only) for the year 2018-2019 as detailed below:-

Sl.No.	Year	Rs.Lakhs
1.	2018-19	33.00
2.	2019-20	6.00
	Total	39.00

5. (i) The expenditure sanctioned in para 4 above shall be debited to the following head of account:-

“2415 AGRICULTURAL RESEARCH AND EDUCATION - 06  
Forestry - 004 Research. State's Expenditure - JJ Generation of  
molecular markers in Terminalia Chebula and Selection of Elite  
clones under State Innovation Fund - 09 Grants-in-Aid - 03  
Grants for Specific Schemes  
(DPC - 2415 06 004 JJ 0933)”

(ii) The expenditure shall be met from the State Innovation Fund by debiting under the following head of account:-

“2415 AGRICULTURAL RESEARCH AND EDUCATION – 06  
Forestry – 902 Deduct – Amount met from State Innovation  
Fund. State’s Expenditure – JA Deduct – Amount met from  
State Innovation Fund. 30 Inter-Account Transfers  
(DPC – 2415 06 902 JA 3005)”

And Contra - debiting the following fund account:-

“J – Reserve Fund – (b) Reserve funds not bearing interest –  
8229- 00 Development Welfare Funds – 200. Other  
Development and Welfare Funds – BE State Innovation  
Fund.  
(DPC – 8229 00 200 BE 0006) (Outgo)

6. The Principal Chief Conservator of Forests is the Estimating, Reconciling and Controlling authority for the above Head of account indicated at para 5 above.

7. The Principal Chief Conservator of Forests is authorized to incur the expenditure sanctioned above. He is requested to ensure that the amount sanctioned above is utilized in full during 2018-2019 for the purpose approved by the State Planning Commission and send the Utilization Certificate as soon as the work is completed.

8. This order issues with the concurrence of Finance Department vide its U.O. No.3733/(AHD&F)/2015, dated : 05.02.2019.

**(BY ORDER OF THE GOVERNOR)**

**SHAMBU KALLOLIKAR  
PRINCIPAL SECRETARY TO GOVERNMENT**

To  
The Principal Chief Conservator of Forests (H.o.D.), Chennai-15.  
The Accountant General, Chennai-18.  
The Accountant General (Audit), Chennai-18.  
The Pay & Accounts Officer (South), Chennai-35.  
The Pay and Accountant Officer/Treasury Officers concerned  
through the Principal Chief Conservator of Forests, Chennai 15  
The Resident Audit Officer, Office of the Secretariat, Chennai-9

Copy to:-

The Member Secretary, State Planning Commission, Chennai-5.  
The Finance (AHD&F/BG-I/ BG-II ) Department, Chennai-9.  
The Planning Development & Special Initiative Department, Chennai-9.  
The Senior Private Secretary to the Principal Secretary to Government,  
Environment and Forests Department, Chennai-9.

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Environment and Forests (FR.7) Department, Chennai-9.  
The National Informatic Centre, Chennai-9.  
SF/SC

// FORWARDED BY ORDER //

S. Mangal  
11/02/14

Section Officer

Rk  
11/02/14