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ABSTRACT

Tamil Nadu Forest Department – Forest Research – JA Research Annual Plan proposal for the year 2020-2021 – Sanction of Rs.390.00 lakhs – Orders – Issued.

ENVIRONMENT AND FORESTS (FR.7) DEPARTMENT

G.O. (D) No.177

Dated: 04.12.2020

சார்வரி, கார்த்திகை – 19

திருவள்ளூர் ஆண்டு – 2051

Read:-

From the Principal Chief Conservator of Forests Letter No.C2/16125/2020, Dated 28.07.2020.

ORDER:

In the letter read above, the Principal Chief Conservator of Forests has sent the annual plan proposal for 2020-2021 for Research Wing, to continue the Research Activities at a total cost of Rs.447.38 lakhs.

2. The new research activities proposed are based on the recommendation of 20th meeting of Research Advisory Committee held on 09.06.2020. The detailed chapter wise proposals are as follows:-

1. Research proposals from Research Divisions (New Research works) - 91.73 lakhs
2. Conducting scientific Research with various scientific organization / Institutes / Universities - 35.06 lakhs
3. Maintenance of older experimental plots raised various schemes and improvement of Genetic Resource Tree Park - 79.10 lakhs
4. Making payments for on-going Collaborative Research Projects - 31.22 lakhs

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5. Supporting works for research activities (Engaging protection Mazdoors, Security personnels, Skilled Assistants, JRFs and improvement of infrastructure etc.,) - 185.27 lakhs
6. Research documentation and Extension activities (documentation of research activities like Newsletters, and ARR publication, Conducting refresher course and purchase of research journals, books, bulletin etc.,) - 25.00 lakhs
- Total - 447.38 lakhs**

3. Hence the Principal Chief Conservator of Forests has requested to sanction Rs.447.38 lakhs for the above said Research activities for the year 2020-2021.

4. After careful consideration the Government has restricted the amount of Rs.447.38 lakhs to 390.00 lakhs and sanction the amount of Rs.3,90,00,000/- (Rupees Three Crore and Ninety Lakh only) as follows:-

Sl. No.	Item	Amount (Rs. in lakhs)
1.	(a) Research proposals from Research Divisions (New Research works) (b) Conducting collaborative scientific Research with various scientific organization / Institutes / Universities	100.00
2.	Maintenance of older Experimental plots raised various schemes and improvement of Genetic Resource Tree Park	68.78
3.	Making payments for on-going Collaborative Research Projects	31.22
4.	Supporting works for research activities (Engaging protection Mazdoors, Security personnels, Skilled Assistants, JRFs and improvement of infrastructure etc.,)	170.00

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5.	Research Documentation and Extension activities	20.00
	Total	390.00

The breakup details of the works and expenditure are furnished in the Annexure to this Government Order.

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

"4415 Capital Outlay on Agricultural Research and Education – 06 –
Forestry – 004 Research – State's Expenditure JA Forest Research
416 Major Works – 01 Major works
(IFHRMS D.P. Code: 4415 06 004 JA 41601)
(Old DPC: 4415 06 004 JA 1605)

6. This order issues with the concurrence of Finance Department vide its U.O. No. 46286/AHD&F/2020, Dated 04.12.2020.

(BY ORDER OF THE GOVERNOR)

SANDEEP SAXENA
ADDITIONAL CHIEF SECRETARY TO GOVERNMENT

To:-

- ✓ The Principal Chief Conservator of Forests
(Head of the Department), Chennai-15.
- The Accountant General, Chennai-18.
- The Accountant General (Audit), Chennai-18.
- The Accountant General (Audit-II), Chennai-18.
- The Pay and Accounts Office (South), Chennai-35.
- The Director of Treasuries and Accounts, Chennai-15.
- The Resident Audit Officer, Chennai-9.

Copy to:-

- The Principal Chief Conservator of Forests
(Research and Education), Chennai-127.
- The Finance (AH&F) Department, Chennai-9.
- The Planning, Development & Special Initiatives Department,
Chennai-9.
- SF / SCs.

// Forwarded by order //

G.R. Sundar
Section Officer
5/12/20

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Sl. No.	Unit/ Works Proposed	Unit	DCF, MND, DHARMAPURI		DCF (GENETICS), COIMBATORE		DCF, STRI, KOLAPAKKAM		DCF, IWRD, TRICHY		ACF, AFRD, MADURAI		CCF (Research)		TOTAL (RESEARCH WING)	
			Physical in Ha. / No.	Amount in lakhs	Physical in Ha. / No.	Amount in lakhs	Physical in Ha. / No.	Amount in lakhs	Physical in Ha. / No.	Amount in lakhs	Physical in Ha. / No.	Amount in lakhs	Physical in Ha. / No.	Amount in lakhs	Physical in Ha. / No.	Amount in lakhs
(iii)	Assessment of genetic variability and development of gender specific DNA marker studies in <i>Casuarina tozium</i> Rob- an economically important NTFP species by Dr Shanthy, IFCIR, Coimbatore (3 years Rs.10.00 lakhs) (First instalment)			3.66												3.66
(iv)	A data-driven approach to improve timber marketing of TCF in Tamil Nadu by Dr V N Murthian, Gobi Arts & Science College, Gobichettipalayam (Collaboration with IWRD, Trichy) (2 years - Rs.10 lakhs). (First instalment)	Study						5.50								5.50
(v)	Population ecology, distribution and propagation of an endangered medicinal plant <i>Justicia biddiana</i> (CL). Bennet of Pakkamalai Reserve Forest, Gingee Tamil Nadu, by Dr K P Girivassan, Government Arts College for Men, Nandanam, Chennai (Collaboration with SFRI) (2 years - 7.03 lakhs) (First instalment)						4.22									4.22
(vi)	Field evaluation of water use efficient growth promoting bacteria-plant association for increased biomass, by Dr Florida Tilton, Biozone Research Technologies and Dr Rex Arunaj, SRMIST (Collaboration with SFRI) (2 years - 8.74 lakhs) (First instalment)						5.24									5.24
(vii)	Economical and ecologically sustainable bio inoculant pellets for agroforestry presented by Dr Mujera Fathima, Government Arts College for Men, Nandanam (Collaboration with SFRI) (2 years - 7.30 lakhs) (First instalment)						4.38									4.38
TOTAL			5002	10.35	13	32.65	3	21.89	4	20.07	2	15.04	0	0	0	100.00
II Ongoing Research Works																
1	First year maintenance of 2019-20 plantation and second year maintenance 2018-19 and other older experimental plantations like Seed production area, SSO, CSO, SS etc. by ploughing, soil working, knife weeding, receding thinning and watering the plants @ 10000 per Ha.	Ha.	50.00	5.00	18.00	2.00	67.00	6.70	12.00	1.20	12.00	1.20			159.00	16.10

Sl. No.	Unit/Works Proposed	Unit	DCE ANDHRA PRADESH		DCE (GENETICS), COMBATORRE		DCE, SFRI, KOLAPAKKAM		DCE, IWARD, TRICHY		ACE, APWD, MADURAI		CCE (Research)		TOTAL (RESEARCH WING)	
			Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs
2	Silvicultural package for the older experiments such as ploughing, soil working, knif weeding, reekening, pruning, thinning, trenching etc. @ 20000 per Ha.	Ha.			4.00	□ 0.80	20.00	□ 4.00			10.00	□ 2.00			34.00	□ 6.80
3	Maintenance of seed production areas @ 10000 per Ha.	Ha.	17.00	□ 1.70		□ 3.00										□ 4.70
4	Improvement of water sources, Drilling of 6" borewell and providing water pipe line at Forest Genetic Resource Tree Park and various Research centres of IWARD, Tichy	No.					2.00	□ 5.50	2.00	□ 4.00						□ 9.50
5	Maintenance of lawns, palmatum, Bambusa and other plantations at Forest Genetic tree park	LS					□ 5.00								0.00	□ 5.00
6	Construction of overhead tank at Forest Genetic Resource Tree Park	LS					□ 6.00									□ 6.00
7	Formation of percolation pond at Forest Genetic Resource Tree Park	LS					□ 2.20									□ 2.20
8	Providing water irrigation through the sprinkler system at Forest Genetic Resource Tree Park	LS					□ 2.83									□ 2.83
9	Deepening and strengthening of water harvesting channels at Forest Genetic Resource Tree Park	LS					□ 2.30									□ 2.30
10	Creation of water harvesting structure at Forest Genetic Resource Tree Park	LS					□ 1.10									□ 1.10
11	Collection of superior quality seeds for research purposes and supply to our department, farmers and other agencies	LS		□ 3.50		□ 3.50										□ 7.00
12	Raising Tree stumps 150000 Nos. @ Rs.1/- each for supply to the public and Department	Nos.	75000	□ 2.25											75000	□ 2.25
13	Raising seedlings (Medicinal plants)	Nos.			10000	□ 1.00	10000	□ 1.00			10000	□ 1.00				□ 3.00
14	Collaborative studies (Ongoing) such as Germplasm assemblage of medicinal plants, Suitability of plantation grown timber species of Tamil Nadu, Conservation, Characterization and utilization of fatty acid liver curing medicinal plant, Quantifying resistance, Plant-microorganism association as a model to enhance drought tolerance in medicinal plants, Identification and promotion of secondary timber, Isolation and molecular characterization, Bacterial disease management etc.	Study				□ 16.22		□ 15.00								□ 31.22
Total			75067	□ 32.45	10022	□ 26.52	10089	□ 51.43	14	□ 5.20	10022	□ 4.20	0	□ 0.00	75193	□ 100.00

Sl. No.	Unit/Works Proposed	Unit	DCF, MND, DHARMAPURI		DCF (GENETICS), COIMBATORE		DCF, SFRI, KOLAPARKAM		DCF, IW/D, TRICHY		A/C/F, AFRD, MADURAI		CCF (Research)		TOTAL (RESEARCH WING)	
			Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs	Physical in Ha./No.	Amount in lakhs
III Supporting works for Research Activities																
1	Wages for Plot Mazdoors for day and Night Protection and upkeep maintenance of various Research centres including Pongal Bonus	No.	13.00	□ 16.29	13.00	□ 18.24	12.00	□ 17.28	4.00	□ 5.76	1.00	□ 1.38			43.00	□ 58.95
2	Utilization of security personnel for protection of red sanders / sandalwood etc. and engaging drivers (for tractors / other vehicles) / professional / other experts in different works, maintenance, etc. of research centres.	No.	8.00	□ 10.00	3.00	□ 5.70	6.00	□ 7.33	4.00	□ 5.76	6.00	□ 8.25			27.00	□ 37.04
3	Wages for lab technician, Lab assistant, Seed storage supervisor, Seed handling Mazdoors and Seed cleaning Mazdoors at Newly established Forest Tree Seed Centre, Trichy	No.		□ 5.00										0.00	□ 5.00	
4	Engaging Technical Assistant @ Rs.25000/- Per Month for 12 Months	No.			1.00	□ 3.00	1.00	□ 3.00					1.00	□ 3.00	3.00	□ 9.00
5	Engaging JRF @ 18000/- Per Month for 12 Months	No.	3.00	□ 6.48	2.00	□ 4.32	2.00	□ 4.32	2.00	□ 4.32	2.00	□ 4.32			11.00	□ 23.76
6	Purchase and annual maintenance of laboratory equipments, computers etc.	LS		□ 1.00		□ 1.00		□ 1.00		□ 1.00		□ 1.00			□ 1.00	□ 6.00
7	Procurement of lab chemicals and instruments	LS					□ 1.00									□ 1.00
8	Consultancy charges for research analysis and transfer of technology publications	No.												□ 1.00	□ 1.00	□ 1.00
9	Maintenance of Mist tents and Hardening chamber at various Research Centres including providing Humidifier, Hygrometer, tools, Canal multiplication chamber (mist chamber) and equipments etc.	LS		□ 2.00		□ 2.00		□ 2.00								□ 8.00
10	Providing and improvement of water facilities Research centres like, drip irrigation, rain water harvesting and digging borewell, laying pipelines Maintenance of existing motion and irrigation facilities in all Research Centre	LS		□ 1.00		□ 1.00		□ 1.00		□ 1.00		□ 1.00				□ 5.00
11	Mass Production of Verm compost from the biowastes like twigs, leaf litters generated in Research Centres	LS						□ 2.00								□ 2.00
12	Mass production of economically viable Liquid Bio fertilizers with microbes such as Azospirillum, Azotobacter, Rhizobium, etc.,	LS						□ 1.00								□ 1.00
13	Recognition of Exemplary contribution to forest research by research personal through cash prize and metal for 15 persons @ Rs. 5000/each	Nos.		□ 0.15		□ 0.15		□ 0.15		□ 0.15		□ 0.15			0	□ 0.75
14	Maintenance of tractors	LS		□ 1.00				□ 1.00								□ 2.00
15	Improvement of infrastructure in all Research centres	LS		□ 1.90		□ 1.90		□ 1.90		□ 1.90		□ 1.90				□ 9.50
Total			24.00	□ 44.82	19.00	□ 37.31	21.00	□ 42.98	10.00	□ 19.89	9.00	□ 20.00	2.00	□ 5.00	84.00	□ 170.00

Sl. No.	Unit/Works Proposed	Unit	DCF, MND, DHANBAPURI		DCF (GENETICS), COMBATTORE		DCF, SRM KOILAPAKKAM		DCF, IWRD, TRICHY		ACF, AFBD, MADURAI		CCF (Research)		TOTAL (RESEARCH WING)		
			Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.	Amount in Lakhs	Physical in Ha./No.
IV	Research, Documentation and Extension Activities																
1	Research communication and documentation of research activities like Newsletter, and ARK publication / Monograph etc.	LS		□ 1.00		□ 1.00		□ 1.00		□ 1.00		□ 1.00		□ 2.00			□ 2.00
2	Conducting one day training programme for potential tree growing farmers at Forest Tree Seed Centre, Trichy and conducting awareness programme for cultivating of afro forestry species and medicinal plants at Madurai	LS		□ 1.00								□ 1.00					□ 2.00
3	Conducting refresher course for field staff, exposure visits to other Institutions for learning latest trends in modern research techniques etc.	LS		□ 2.00						□ 1.00		□ 1.00					□ 6.00
4	Maintenance and erection of information/ Publicity boards in all Research centres	LS		□ 1.00		□ 1.00		□ 1.00		□ 1.00		□ 1.00					□ 5.00
Total			0.00	□ 5.00	□ 0.00	□ 2.00	□ 0.00	□ 4.00	□ 0.00	□ 3.00	□ 0.00	□ 4.00	□ 0.00	□ 3.00	□ 0.00	□ 20.00	
Grand Total			80993	□ 72.62	10054.00	□ 98.58	10113.00	□ 120.50	28.25	□ 48.16	10053.00	□ 43.24	2.00	□ 7.00	75277	□ 390.00	

//True Copy//

SANDEEP SAXENA
 ADDITIONAL CHIEF SECRETARY TO GOVERNMENT
 C. R. S. 
 Section Officer 1/12/10

