



# GOVERNMENT OF KERALA

## Abstract

Environment Department - Directorate of Environment & Climate Change-  
Annual Plan 2019-20 - Implementation of Plan Schemes - Administrative  
Sanction accorded - Orders issued.

## ENVIRONMENT (A) DEPARTMENT

G.O.(Rt)No.105/2019/Envr Dated, Thiruvananthapuram, 30/10/2019

Read: 1. Letter No.DoECC/A1/1080/2018 dated 25.09.2019 from the  
Director, Directorate of Environment & Climate Change.  
2. Minutes of the meeting of Departmental Working Group held  
on 30.09.2019.

## ORDER

As per the letter read above, the Director, Directorate of Environment  
& Climate Change has submitted various proposals for according  
Administrative Sanction under Annual Plan 2019-20 for implementation of  
Plan Schemes by utilizing current year's budget provision.

2) The Departmental Working Group of Environment Department held  
on 30.09.2019 scrutinized the proposals in detail and recommended the  
following schemes for Administrative Sanction as detailed in the minutes  
read above, subject to specific conditions. The details of the scheme and  
component wise break up are as follows :

### 1) Environmental Research & Development (New Research & Development Projects) Head of Account :3435-03-103-99(P)

Sl. No	Item under Scheme and Components	Period	Total Amount (in Rs)	Amount for this year ( in Rs)
1	Micro plastic pollution: Source characterization, transport modeling & assessment of impact on fish population in Kadambrayar river and Vembanad backwater region	2 years	13,09,000/-  (1 <sup>st</sup> year: 5,23,600/-)  (II <sup>nd</sup> year: 7,85,400/-)	5,23,600/-
ii)	Novel, cost effective and eco- friendly cellulose nanofiber (CNF)- based Polyelectrolyte microfiltration filter for small	2 years	21.984 Lakh  (1 <sup>st</sup> year: 11,54,200/-)	11,54,200/-

	scale waste water purification. Subject to the condition that the technology is commercially exploited in due course.		(II <sup>nd</sup> year: 10,44,200/-)	
iii)	Species inventory, distribution and exploitation pattern of fish faunal resources of kole wetlands.	2 years	13,32,000/-  (1 <sup>st</sup> year: 7,47,000/-)  (II <sup>nd</sup> year: 5,85,000/-)	7,47,000/-
iv)	Investigation of shoreline stability along the Kerala coast using geospatial technologies for sustainable coastal protection measures.	3 years	13.2 Lakh  (1 <sup>st</sup> year : 5,28,000/-)  (2 <sup>nd</sup> year: 5,28,000 /-) (3 <sup>rd</sup> year : 2,64,000/-)	5,28,000/-
v)	Sustainable green composites based on waste and natural resources. Subject to the condition that the technology is commercially exploited in due course.	2 years	16,76,000/-  (1 <sup>st</sup> year: 12,26,000/-)  (II <sup>nd</sup> year: 4,50,000/-)	12,26,000/-
vi)	Development of desalination system using selectively patterned absorber	2 years	13,75,000/-  (1 <sup>st</sup> year: 5,50,000/-)  (2 <sup>nd</sup> year: 8,25,000/-)	5,50,000/-
vii)	SubTerFish: Diversity, distribution and threads to Kerala's subterranean fishes.	2 years	25,00,000/-  (1 <sup>st</sup> year: 11,00,000/-)  (II <sup>nd</sup> year: 14,00,000/-)	11,00,000/-
viii)	Assessment, mapping and preparation of database on spacial distribution, status and baseline features of granite and	1 year	31,32,200/-  (Thiruvanantha puram-	18,79,320/-



	other crystalline rock quarries in Thiruvananthapuram, Kollam and Pathanamthitta districts.		10,82,400/-  Kollam- 9,67,400/- & Pathanamthitta - 10,82,400/-)	
ix)	Mapping the spacial distribution of rock quarries in Ernakulam, Kottayam & Idukki districts of Kerala.	1 year	30,17,200/-  (Ernakulam- 10,82,400/-)  (Kottayam & Idukki- 19,34,800/-)	18,10,320/-
x)	Mapping spacial distribution of quarries in Malappuram district.	1 year	10,82,400/-	6,49,440/-
xi)	Mapping spacial distribution of quarries in Thrissur, Palakkad & Kozhikode districts.	1 year	31,37,200/-	18,82,320/-
	<b>Total</b>			<b>1,20,50,200/-</b>

## II) Climate Change

Head of Account :3435-04-104-98(P)

Sl. No	Item under Scheme and Components	Period	Total Amount (in Rs)	Amount for this year ( in Rs)
i)	Studies on effect of climatic changes on the morphology, phenology and reproductive biology of some endemic ephemerals of south Western Ghats.	2 years	9,37,200/-  (1 <sup>st</sup> year : 4,91,000/- )  (2 <sup>nd</sup> year: 4,46,200/-)	4,91,000/-
✓ ii)	Exploration of harmful algal blooms (HABs) in the sacred rivers of Achankovil, Pamba & associated reservoirs with special reference to climate change and anthropogenic influences.	3 years	14,42,320/-  (1 <sup>st</sup> year : 5,33,940/-)  (2 <sup>nd</sup> year:- 4,73,440/-)  (3 <sup>rd</sup> year: 4,34,940/-)	5,33,940/-

iii)	Drought mitigation through enhanced water retention in ponds: a field experiment in Vadakarapathy Panchayath, Palakkad district.	1 year	14,50,000/ (as per G.O. (Rt)No.28/17/Envt dated 23-02-2017 AS had been accorded for Rs.34.50 Lakh for 2 years. Balance amount is 14.50 Lakh)	14,50,000
	<b>Total</b>			24,74,940/-
	<b>Grand Total (I + II)</b>			1,45,25,140

3) Having considered the above proposals with reference to the recommendations of the Working Group in detail, Government are pleased to accord Administrative Sanction to the Directorate of Environment & Climate Change for implementation of the above projects as recommended by the Working Group for a total amount of **Rs.145.25140 Lakh (Rupees One Hundred and Forty Five Lakh Twenty Five Thousand One Hundred and Forty only)** by debiting the expenditure from the respective head of accounts during the year 2019-20.

4) The Director of Environment & Climate Change will strictly monitor the implementation of plan schemes at each stage and they will furnish physical and financial progress reports to Government before 10<sup>th</sup> of every month.

5) The above sanction is subject to the following further conditions :

- (1)Tender/e-tender and other required formalities shall be followed wherever necessary.
- (2)Store Purchase Rules shall be strictly adhered to.
- (3) For civil works PWD schedule of rates shall be followed.
- (4)The funds releasing will be based on actual requirement.

(By order of the Governor)

**VALSA .V**

**ADDITIONAL SECRETARY**

To

✓ The Director, Directorate of Environment & Climate Change,  
Thiruvananthapuram.

The Director, Institute of Climate Change Studies, Kanjikuzhy, Kottayam

The Principal Accountant General (A&E/Audit) Kerala,  
Thiruvananthapuram.

The Finance Department.

The Planning and Economic Affairs Department.