



## **ABSTRACT**

Environment, Climate Change and Forest Department – Sanction of the “Tamil Nadu Sustainably Harnessing Ocean Resources and Blue Economy (TN-SHORE)” Project/Tamil Nadu Coastal Restoration Mission – With World Bank Assistance – Orders Issued.

### **ENVIRONMENT, CLIMATE CHANGE AND FOREST (EC.4) DEPARTMENT**

**G.O.(Ms) No.11**

**Dated: 10.01.2024**

**சோபகிருது, மார்கழி – 25**

**திருவள்ளூர் ஆண்டு -2054**

#### **Read:**

1. G.O.(Ms).No.101, Environment, Climate Change & Forests (EC.2) Department, Dated. 03.11.2021.
2. Budget Speech Announcement for the year 2023-2024.

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#### **ORDER:**

The Hon'ble Minister (Finance & Human Resources Management), in his Budget Speech in the year 2023-2024, made the following announcement on the floor of the assembly: -

“Due to increasing vagaries of climate change and pressure caused by the burgeoning population, the coastal ecosystem and the livelihood of coastal population are likely to be severely affected in the near future. The Government will implement the “Tamil Nadu Coastal Restoration Mission” with the objective of preventing sea erosion, reducing marine pollution and conserving marine biodiversity. The mission will be implemented with World Bank assistance at an estimated cost of Rs.2,000 crore in the next 5 years.”

2. In accordance with this announcement, this department approached the World Bank and submitted a concept note which was discussed by the World Bank team during their visit in August 2022. The concept note was agreed to by the World Bank and Government of Tamil Nadu was advised to prepare a Preliminary Project Report (PPR) which was prepared and uploaded.

3. The Ministry of Finance, Department of Economic Affairs reviewed this project in their meeting held on 28<sup>th</sup> April 2023. The Ministry of Finance, Department of Economic Affairs through their letter dated 18<sup>th</sup> May 2023 approved the project and posed the project proposal of Government of Tamil Nadu to World Bank for funding. The World Bank has provided approval to the project proposal. Details of the project are as below;-

#### **Project Objectives**

The “Tamil Nadu Sustainably Harnessing Ocean Resources and Blue Economy (TN-SHORE)” project aims to enhance the resilience and sustainable utilization of coastal resources through a multi-pronged

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approach. It envisions a holistic integration of various sectors to drive a resilient and circular blue economy, enhance local livelihoods, and capacities for a greener future. To achieve these objectives, the project identifies five thematic prioritized investment areas;-

### **Component 1: Enhance Coastal Biodiversity**

This component focuses on strengthening institutional capabilities for comprehensive Conservation of Coastal and Marine Biodiversity. Key activities include;-

1. Biodiversity Conservation Park at Kadambur, Chengalpattu District
2. Sea Turtle Conservation Centre at Nagapattinam and Chennai
3. International Dugong Conservation Centre at Manora, Thanjavur District
4. Coastal Wetlands (including Pallikaranai) Conservation and Restoration

### **Component 2: Coastal Protection**

This component focuses on establishing a comprehensive coastal protection strategy, with a strong emphasis on the pivotal role of adopting an Ecosystem-based Approach (EbA) and promoting the development of green infrastructure (living shorelines). The strategic implementation of initiatives within this framework encompasses mangrove and seagrass plantation and restoration, coral reef restoration, all directed to effectively mitigate erosion concerns along the entire coastline.

To specifically address erosion, the component advocates for adoption of Green or Hybrid erosion control measures, prioritizing an Ecosystem-based Approach (EbA) that places emphasis on safeguarding coastal wetlands and estuaries. Identified erosion hotspots will receive particular attention for mangrove and seagrass plantation and restoration activities. A Special Purpose Vehicle viz., the “**Tamil Nadu Blue Carbon Agency**” (TNBCA) shall be set up under the project to ensure a dedicated and focused attention on overseeing the preservation and restoration of targeted coastal ecosystems, including mangroves, seagrass, and salt marshes. This initiative will not only enhance ecosystem services but will also create a framework for trading of carbon credits. Key activities under this component will include;-

1. Enhancing Coastal Resilience: Mangroves, Seagrass, and Blue Carbon solutions
2. Erosion control and Coral restoration at Kariyachalli Islands, Gulf of Mannar ecosystems
3. Strengthening Coastal Management through Integrated Coastal Zonal Management (ICZM), Marine Spatial Planning (MSP), Coastal Management Plan (CMP) for Critically Vulnerable Coastal Areas (CVCA), Integrated Management Plan (IMP) and Valuing Ecosystem Services with Capacity Building and Outreach Initiatives.

### **Component 3: Improving livelihoods**

This component centers around enhancing livelihoods by endorsing

initiatives that promote alternative and sustainable means of living for coastal communities. These initiatives encompass strategic investments in the establishment of blue flag beaches, eco-tourism centres, preservation of heritage sites and creation of mangrove boardwalk etc. Key activities within this component involve:

1. Blue Flag Beaches
2. Sustainable Tourism
3. Diversified livelihoods for a thriving Blue Economy

#### **Component 4: Pollution Abatement**

This component is meant for Pollution Abatement, with a primary focus on the management and reduction of plastic waste in coastal and marine environment. The approach emphasizes the promotion of plastic circularity through an ecosystem-centered strategy. Key activities within this component involve:

- a) Identification of plastic waste hotspots** including identifying and installing plastics capture booms in areas characterized by high levels of plastic waste pollution along the river and coastal ecosystems. Implementation of awareness and incentive programs for communities, to effectively manage discarded plastic and Abandoned, Lost and Discarded Fishing Gears (ALDFG).
- b) River System Investments:** Undertaking strategic initiatives to prevent and combat marine pollution by investing in river systems. This encompasses the enhancement and establishment of Material Collection Facilities (MCF) and Material Recycling Facilities (MRF) to facilitate proper segregation and storage of plastic waste.
- c) Digital Waste Exchange Platform:** Development of a digital waste exchange platform aimed at connecting collection facilities. This platform will promote the upcycling and reuse of collected materials while exploring alternative solutions for effective plastic waste management.
- d) Climate Smart Coastal Villages:** Facilitating development of climate-smart coastal villages involve implementing a comprehensive strategy that integrates sustainable practices to mitigate the impact of climate change. This includes enhancing the resilience of coastal communities through the adoption of eco-friendly infrastructure, such as resilient housing and energy-efficient systems. Additionally, promoting climate-smart agricultural practices, such as drought-resistant crops and efficient water management, contributes to the overall sustainability of these villages. Engaging local communities through awareness programs and skill-building initiatives ensures a holistic approach to climate-smart development, fostering long-term resilience and well-being. The integration of renewable energy sources, such as solar and wind, further positions these coastal villages as model for environmentally conscious living. Key activities include:
  1. Advancing Meendum Manjappai - Strengthening Plastic Circularity
  2. Climate Smart Coastal Villages

3. Ennore Creek Restoration

**Component 5: Project Management:**

This segment will address the operational needs of the project. This involves engagement of consultancy technical and management services, analytical studies, and administrative matters. This system aims to track ecosystem health effectively. A third-party evaluation will be conducted to ensure accountability and transparency. The project execution and management cost is Rs 100 crore.

**A summary of the project components along with financial allocation is provided in the Table I below ;-**

(Table - I)

<b>Components</b>	<b>Key Activities</b>	<b>Total Allocation (Rs in Crores)</b>	<b>Implementing Agency</b>
<b>Component 1</b>  <b>Enhance Coastal Biodiversity</b>	1. Biodiversity Conservation Park at Kadambur, Chengalpattu District	345.00	Principal Chief Conservator of Forests (Head of Forest Force)
	2. Sea Turtle Conservation Centre at Nagapattinam and Chennai	60.00	Principal Chief Conservator of Forests, Chief Wild Life Warden
	3. International Dugong Conservation Centre at Manora, Thanjavur District	90.00	Principal Chief Conservator of Forests, Chief Wild Life Warden
	4. Coastal Wetlands (Including Pallikaranai) Conservation and Restoration	275.00	Principal Chief Conservator of Forests, Tamil Nadu Wetland Mission  Principal Chief Conservator of Forests, Chief Wild Life Warden
<b>Total</b>		<b>770.00</b>	

<b>Component 2 Coastal Protection</b>	1. Enhancing Coastal Resilience: Mangroves, Seagrass, and Blue Carbon solutions	240.00	Principal Chief Conservator of Forests, Green Tamil Nadu Mission  Principal Chief Conservator of Forests, Chief Wild Life Warden  Department of Environment and Climate Change
	2. Erosion control and Coral restoration at Kriyachalli Islands. Gulf of Mannar Ecosystems	50.00	Principal Chief Conservator of Forests, Chief Wild Life Warden
	3. Strengthening Coastal Management through ICZM, MSP, CMP for CVCA, IMP plans, and valuing Ecosystem Services with Capacity Building and Outreach Initiatives	50.00	Department of Environment and Climate Change  Principal Chief Conservator of Forests, Tamil Nadu Wetland Mission  State Project Management Unit
<b>Total</b>		<b>340.00</b>	
<b>Component 3 Improving Livelihoods</b>	1. Blue flag Beaches, Sustainable Tourism, and Diversified Livelihoods for a thriving Blue Economy	250.00	Department of Environment and Climate Change  Principal Chief Conservator of Forests, Chief Wild Life Warden
<b>Total</b>		<b>250.00</b>	

<b>Component 4 Pollution Abatement</b>	1. Advancing Meendum Majappai-Strengthening Plastic Circularity	100.00	Chairperson, Tamil Nadu Pollution Control Board
	2. Climate Smart Coastal Villages	75.00	Department of Environment and Climate Change
	3. Ennore Creek Restoration	40.00	Chairperson, Tamil Nadu Pollution Control Board  Principal Chief Conservator of Forests, Green Tamil Nadu Mission
<b>Total</b>		<b>215.00</b>	
<b>Component 5 Project Management</b>	1. Enabling project execution and Management	100.00	Administrative Unit, Tamil Nadu Coastal Restoration Mission
<b>Total</b>		<b>100.00</b>	
<b>Grand Total</b>		<b>1675.00</b>	

**Table II details the financial arrangement**

**(Table-II)  
(Rs in Crores)**

Tranche	World Bank	State Government	Total Cost
Tranche-1	700	300	1000
Tranche-2	472.5	202.5	675
Total	1172.5	502.5	1675
Percentage	70	30	100

**Table III, indicates the Year wise financial projection of allocation – Share of the World Bank and the Government of Tamil Nadu**

**(Table – III)  
(Rs in Crores)**

TRANCHE I						TRANCHE II			
2024-25		2025-26		2026-27		2027-28		2028-29	
World Bank	State	World Bank	State	World Bank	State	World Bank	State	World Bank	State
178.5	76.5	297.5	127.5	224	96	280	120	192.5	82.5
<b>255</b>		<b>425</b>		<b>320</b>		<b>400</b>		<b>275</b>	

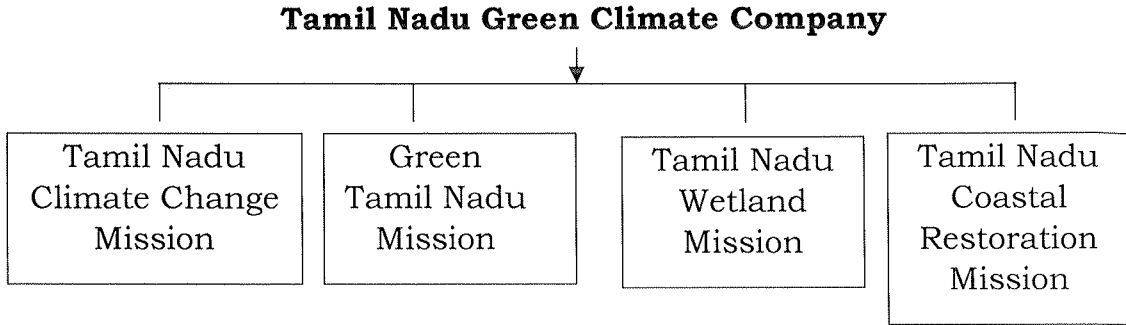
This project will have a multi-disciplinary approach integrating activities from different line departments, which will help to make the coastline more resilient so as to increase its adaptive capacity.

4. In the Government Order 1<sup>st</sup> read above, the Government has already set up the Tamil Nadu Green Climate Company under section 8 of the Companies Act 2013 to implement the three key missions of the Government viz. Tamil Nadu Climate Change Mission, Green Tamil Nadu Mission and the Tamil Nadu Wetland Mission. It is a not-for-profit Company and a unique platform to respond to Climate Change in the State and it will act as a Special Purpose Vehicle (SPV) to address the climate crisis in the State for creating purposeful and equitable long-term solutions. In order to strengthen the Government's climate response at the grassroots level, the Government has created a special organisational setup at the district level, in which the District Collectors have been designated as District Mission Directors and District Forest Officers (DFOs) have been designated as District Climate Officers. Further, the State has also constituted the Tamil Nadu Governing Council on Climate Change, in order to provide guidance on the implementation of various climate initiatives.

5. Tamil Nadu Green Climate Company has a strong monitoring platform which helps the State to implement climate action projects. A Project Management Unit has also been set up for the Tamil Nadu Green Climate Company. The "Tamil Nadu Coastal Restoration Mission" will be monitored by the Tamil Nadu Green Climate Company under the Environment, Climate Change and Forest Department. Chart – I shows Missions under the Tamil Nadu Green Climate Company including the "**Tamil Nadu Sustainably Harnessing Ocean Resources and Blue Economy (TN-SHORE)**" hereinafter referred to as "**Tamil Nadu Coastal Restoration Mission**" (நெய்தல் மீட்சி இயக்கம்).

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Chart - I



The Project fund shall be routed through the Tamil Nadu Green Climate Company and other concerned agencies.

6. The Government after careful examination hereby accord sanction for setting up of “Tamil Nadu Coastal Restoration Mission” with assistance from the World Bank. The estimated cost of the project is Rs.1675 Crores (World Bank assistance – Rs.1172.5 Crore (+) Tamil Nadu State Component Rs.502.5 Crores) including the State share with activities spread over Financial Years 2024-2029.

7. The Government also accord approval to the Tamil Nadu Green Climate Company and other concerned agencies to receive funds, manage, implement and monitor the Tamil Nadu Coastal Restoration Mission.

8. For effective implementation of the project, the Government also accord approval for an amount of Rs 100 crore earmarked towards establishment of Special Project Monitoring Unit (SPMU), manpower infrastructure and related cost for a period of 5 years i.e from 2024-2029. Following administrative unit shall be setup for effective implementation of the World Bank assisted “**Tamil Nadu Coastal Restoration Mission**” as below :-

1. Chief Mission Director from All India Service at the level of Super Time scale and above (on deputation basis).
2. Mission Director from All India Service at the level of Senior Time scale and above (on deputation basis).
3. Two posts of Assistant Mission Directors from Group-I Level Officers. (Deputy Collector / District Revenue Officer / Assistant Conservator of Forest Level) (on deputation basis)
4. The following three wings will be created for Tamil Nadu Coastal Restoration Mission : -



**Tamil Nadu Coastal Restoration Mission**

<u>Administration</u>	<u>Finance</u>	<u>Technical</u>
Administrative Officer - 1	Finance Officer - 1	Technical Officer - 1
Administrative Executives - 4	Finance Executives - 2	Engineering Consultant - 1
Multitasking Assistant - 1	Multitasking Assistant - 2	Environment Consultant - 1
		Multitasking Assistant - 2
<b>Total - 6</b>	<b>Total - 5</b>	<b>Total - 5</b>

All the above positions shall be deployed from an outsourcing agency on contract basis/ deputation for a period of 5 years. Tamil Nadu Green Climate Company Board shall determine the terms and conditions for deployment of such positions. The entire expenditure in connection with the functioning of administrative unit shall be met out from the Tamil Nadu Coastal Restoration Mission Project. This project does not envisage to create any new post.

9. The Government also order for constitution of a High Powered Steering Committee with the following composition for monitoring the Tamil Nadu Coastal Restoration Mission Project ;-

1	Chief Secretary to Government of Tamil Nadu	Chairman
2	Additional Chief Secretary to Government, Environment, Climate Change & Forest Department	Member
3	Principal Secretary to Government, Finance Department	Member
4	Additional Chief Secretary to Government, Planning, Development & Special Initiatives Department	Member
5	Additional Chief Secretary to Government, Water Resources Department	Member

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6	Additional Chief Secretary to Government, Fisheries and Fishermen Welfare Department	Member
7	Additional Chief Secretary to Government, Tourism, Culture and Religious Endowments Department	Member
8	Principal Secretary to Government, Municipal Administration and Water Supply Department	Member
9	Secretary to Government, Industries, Investment Promotion & Commerce Department	Member
10	Secretary to Government, Revenue & Disaster Management Department	Member
11	Principal Secretary to Government, Rural Development & Panchayat Raj Department	Member
12	Secretary to Government, Adi-Dravidar & Tribal Welfare Department	Member
13	Principal Secretary to Government, Agriculture & Farmers Welfare Department	Member
14	Principal Chief Conservator of Forests (Head of Forest Force)	Member
15	Principal Chief Conservator of Forests and Chief Wildlife Warden	Member
16	Chief Mission Director, Coastal Mission	Convenor

10. The Government have already setup the District Climate Change Mission in all the 38 Districts of the State to carry out climate change activities at the district level. Accordingly, the District Collector is the Mission Director of the Climate Change Mission and the District Forest Officer is the District Climate Officer for the Districts under their

jurisdiction. Therefore, at the District Level, the “Tamil Nadu Coastal Restoration Mission” project will be implemented by the District Climate Change Missions setup, with the help of line departments.

11. This order issues with the concurrence of Finance Department vide its U.O.No.3588/FS/P/2023, Dated.29.12.2023.

(BY ORDER OF THE GOVERNOR)

**SUPRIYA SAHU**  
**ADDITIONAL CHIEF SECRETARY TO GOVERNMENT**

To:

The Principal Chief Conservator of Forests (HoFF), Chennai-15.

The Principal Chief Conservator of Forests & Chief Wildlife Warden,  
Chennai-15.

The Principal Chief Conservator of Forests /Member Secretary,  
Tamil Nadu State Wetland Authority, Chennai-15.

The Director,

Department of Environment and Climate Change,  
Chennai-15.

The Chief Executive Officer,

Tamil Nadu Green Climate Company, Chennai – 9.

The Accountant General, Chennai-18.

The Pay and Accounts Officer, Chennai-9.

The Country Head, World Bank, New Delhi.

The Ministry of Environment, Forest and Climate Change,  
Government of India, New Delhi.

The Niti Aayog, New Delhi.

The Principal Secretary to Government,

Finance Department, Secretariat, Chennai-9.

The Additional Chief Secretary to Government,

Planning, Development & Special Initiatives Department,  
Secretariat, Chennai-9.

The Additional Chief Secretary to Government,

Water Resources Department, Secretariat, Chennai-9.

The Additional Chief Secretary to Government,

Animal Husbandry, Dairying, Fisheries

and Fishermen Welfare Department,

Secretariat, Chennai-9.

The Principal Secretary to Government,

Tourism, Culture and Religious Endowments Department,

Secretariat, Chennai-9.

The Principal Secretary to Government,

Municipal Administration and Water Supply Department,

Secretariat, Chennai-9.

The Secretary to Government,

Industries, Investment Promotion & Commerce Department,

Secretariat, Chennai-9.

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The Secretary to Government,  
Revenue & Disaster Management Department,  
Secretariat, Chennai-9.

The Principal Secretary to Government,  
Rural Development & Panchayat Raj Department,  
Secretariat, Chennai-9.

The Secretary to Government,  
Adi-Dravidar & Tribal Welfare Department,  
Secretariat, Chennai-9.

The Principal Secretary to Government,  
Agriculture & Farmers Welfare Department,  
Secretariat, Chennai-9.

The Chief Mission Director,  
Coastal Mission.

**Copy to:**

The Special Personal Assistant to Hon'ble Chief Minister,  
Chief Minister's Office, Chennai-9.

The Special/Senior Personal Assistant to the  
Hon'ble Minister (Finance & Human Resources Management),  
Chennai-9.

The Hon'ble Chief Minister's Office, Chennai-9.

The Private Secretary to Secretary-I to Hon'ble Chief Minister,  
Chennai-9.

The Special/Senior Personal Assistant to the  
Hon'ble Minister (Forests), Chennai-9.

The Special/Senior Personal Assistant to  
Hon'ble Minister (Environment, Climate Change), Chennai - 9.

The Private Secretary to Chief Secretary to Government, Chennai-9.

The Chairperson,  
Tamil Nadu Pollution Control Board, Chennai-32.

The Private Secretary to Additional Chief Secretary to Government,  
Environment, Climate Change and Forests Department, Chennai-9.

The Private Secretary to Special Secretary (Environment, Climate Change),  
Environment, Climate Change & Forest Department, Chennai-9.

The Private Secretary to Special Secretary (Forests),  
Environment, Climate Change & Forest Department, Chennai-9.

Finance (ECC&F/BPE) Department, Chennai-9.

All Sections in Environment, Climate Change & Forest Department,  
Chennai-9.

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