

F.No.11-26/2019-IA-III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi-3
Dated: 22nd October, 2019

To,

M/s Chennai River Restoration Trust,
6/103, Adyar Poonga,
Dr. D.G.S. Dinakaran Salai,
Raja Annamalai Puram, Chennai - 28, Tamil Nadu

Sub: CRZ Clearance for Eco-Restoration of Adyar River (2000-4800m) Chainage from Thiru. Vi.Ka. Bridge to 400 m upstream of Kottupuram Bridge, Chennai - reg.

Sir,

This has reference to your online proposal No. IA/TN/CRZ/112212/2019 received in this Ministry for CRZ Clearance of the above mentioned project proposal, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 221st meeting held on 19.08.2019. The details of the project as per the documents submitted and presented during the aforesaid meeting are as under:

(i) The proposed project pertains to restoration of the entire stretch of Adyar River in a phase-wise manner, where the first two phases includes the development of eco-park (Adyar Poonga) & the estuarine region which extends from the River mouth to the Thiru Vi Ka Bridge and the Phase-III eco-restoration comprises of the remaining 40 Km from Thiru Vi Ka Bridge to Adanur Tank. Of the 40 Km, the 2.8 Km stretch from Thiru Vi Ka Bridge to 400m upstream of Kotturpuram Bridge fall under the Coastal Regulation Zone IVB with the salinity of 5 ppt.

(ii) The tidal influenced CRZ stretch of the river has been proposed with an array of interventions along with ecological restoration work with flora. Thirteen different activities have been proposed on either banks of the Adyar River for the entire 4.8 km.

(iii) The 13 proposed activities can be broadly grouped as sewage management, river channel improvement, riverfront development, river mouth management and other associated facilities. The list of activities that have been proposed under each of the category are presented in the table below:

Category	Description of the Project	Chainage (in m) (L - Left & R - Right)
Sewage Management	Two interception mains in Adyar and Kotturpuram diverting the raw sewage to a new in- situ treatment facility located d/s of the MRTS Bridge	R 2000 - 4000
	Laying of a new network to collect the sewage in the houses and connect to the existing network in Greenways Road	L 3500



River Channel Improvement	Lowering the river bed from Thiru. Vi. Ka Bridge to Kotturpuram MRTS Bridge	2000 - 3200
	Lowering the river bed from Kotturpuram MRTS Bridge to Kotturpuram Bridge	3200 - 4350
	Lowering the river bed from Kotturpuram Bridge to 400m upstream	4350 - 4800
Riverfront Development	Maintenance way on the right bank from Thiru. Vi. Ka Bridge to MRTS Bridge	R 2000 - 3050
	Maintenance way on the right bank from MRTS Bridge to Kotturpuram Bridge	R 3220 - 4380
	Maintenance way on the right bank from Kotturpuram Bridge to Suriya Nagar Slum	R 4380 - 5480
	Park near Kotturpuram downstream of MRTS Bridge on the right bank	R 2880 - 3200
	Installation of floating docks in 2 locations (Kotturpuram & Dr. Radhakrishna Puram)	-
	Parking lots in 2 locations (Thiru. Vi. Ka Bridge and Kotturpuram)	-
Plantation	Plantation of trees, shrubs, creepers, reeds and mangrove and grass all along the river bank	-
River Mouth Management	Continuous opening of the mouth for 2 years / Mouth Opening and Maintenance in the 4th & 5th Year	0 - 100

(iv) The proposed project activities fall under CRZ I (B), CRZ II and CRZ IV(B) as per CRZ Notification 2011. The Buckingham canal joins the Adyar River at Kotturpuram.

Activity	Identification	CRZ Classification
Parking Lot	P1	CRZ II
	P2	CRZ II and little outside CRZ
Park	Park	CRZ IB, II, IVB and outside CRZ
Floating Dock	FD1	CRZ IB, II and IVB
	FD2	CRZ IB, II and IVB
Plantation		CRZ IB, II, IVB and outside CRZ
Mangrove		CRZ IB, II and IVB
Maintenance Ways		CRZ IB, II, IVB and outside CRZ
Modular STP		CRZ II
Desilting		CRZ IB, II, IVB
River Mouth Opening		CRZ IB, IVB
Proposed Sewage pipeline with manhole		CRZ IB, II, IVB and outside CRZ
Sewage Pumping Station		CRZ II

(v) The existing STP within Chennai limit where the sewage can be treated is located at Perungudi with a capacity of 114 MLD. The two interception mains and diversion systems proposed in Adyar and Kotturpuram have been designed to route the outfalls to the current sewers or the proposed modular STPs and reduce the pollution in the Adyar River.

(vi) Total effluent generated is 395 KLD, which will be treated in the Sewage Treatment Plant of capacity 600 KLD (2x0.3 MLD). Treated wastewater of 336 KLD

will be used for plantation in parks, vegetation along the river banks and maintenance ways proposed in this project.

(vii) Solar Panels will be provided as the source of power for Modular STP and the total quantity of power required will be 13.00 KWh. In addition, one DG set will be provided as a stand-by arrangement

(viii) Native Vegetation is proposed all along the river banks as part of the eco-restoration project.

(ix) The desilted soil of quantity 291968 m³ will be used for earth filling for the proposed riverfront developmental activities such as parks and maintenance ways etc. The remaining desilted soil will be taken to the perungudi landfill maintained by Greater Chennai Corporation.

(x) The cost of the project is Rs. 121.17 crores

(xi) Total employment generated will be 120 Numbers (20 permanent employees during operation phase, 50 temporary employees during construction phase and 50 temporary employees during operation phase).

(xii) The Tamil Nadu Coastal Zone Management Authority has recommended the above proposal for clearance vide their letter No. 9444/EC.3/2019-1, dated 20.06.2019.

3. Based on the recommendation of the Tamil Nadu Coastal Zone Management Authority issued vide its letter No. 9444/EC.3/2019-1, dated 20.06.2019, and information submitted as at para no. 2 above and information provided during the presentation before the Expert Appraisal Committee and others, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendation of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance to the above project viz '*Eco-Restoration of Adyar River (2000-4800m) Chainage from Thiru. Vi.Ka. Bridge to 400 m upstream of Kottupuram Bridge, Chennai*, under the provision of CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to compliance of the following specific and general conditions as under:

PART A – SPECIFIC CONDITIONS:

- (i) Proposed opening of river mouth and sand bars removal shall not be carried out and proposal to this effect shall be submitted at a later date once a detail study spanning multi-season, with specific focus on riverine/estuarine ecology and biodiversity and Besant Nagar Turtle Nesting Site by an institute of repute like NIOT, Chennai, is carried out and its findings are positive.
- (ii) A robust conservation, plantation of native mangroves and management plan shall be immediately implemented in consultation with the concerned agency in the State government.
- (iii) The temporary modular STPs in the CRZ areas shall be removed within a year of commissioning of the main STP under construction.
- (iv) No construction (including cemented/concretised parking space for vehicles) shall be made in the NDZ area.



- (v) Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (vi) All conditions/recommendations stipulated by the Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide their letter No. 9444/EC.3/2019-1, dated 20.06.2019, shall strictly be complied with.
- (vii) 'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (viii) There shall be no dressing or alteration of the sand dunes present in the vicinity and the same shall be kept undisturbed. No alteration of natural features including landscape changes shall be undertaken for beautification, recreation and other such purpose.
- (ix) No permanent labour camp, machinery and material storage shall be allowed in CRZ area.
- (x) Temporary toilets will be provided for all construction labour. Suitable toilet fixtures for water conservation shall be provided. Fixtures for showers, toilet flushing and drinking should be of low flow either by use of aerators or pressure reducing devices or sensor based control.
- (xi) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.
- (xii) All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central/State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea/coastal water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and / or HVAC cooling purposes etc. within the development. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.
- (xiii) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.

- (xiv) Project Proponent shall ensure regular operation and maintenance of the STP to meet the effluent discharge standards laid down under the rules and should also meet conditions (if any) stipulated in Consent to Establish and Consent to Operate.
- (xv) Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the ambient noise standards.

PART B - GENERAL CONDITIONS:

- (i) A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional Office of this Ministry regarding the implementation of the stipulated conditions.
- (iii) The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (iv) Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (v) The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991, the EIA Notification, 2006 and the extant CRZ regulations.
- (vi) Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.



- (vii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (viii) The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non compliance.
- (ix) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.
- (x) The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.

4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

7. The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

8. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.



(W. Bharat Singh)
Director (CRZ)

Copy to:

1. The Principal Secretary, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
2. The Chairman, Tamil Nadu Coastal Zone Management Authority, Environment & Forests Department (EC-3), Government of Tamil Nadu, Secretariat, Chennai - 600 009
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD cum Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Tamil Nadu Pollution Control Board, No. 76, Anna Salai, Guindy Industrial Estate, Race View Colony, Guindy, Chennai - 600 032
5. The Member Secretary, Tamil Nadu Coastal Zone Management Authority, Department of Environment, No.1, Jeenis Road, Panagal Building, Ground Floor, Saidapet, Chennai - 600 015
6. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), I and II Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 34
7. Guard File/ Record File/ Monitoring Cell.



(W. Bharat Singh)
Director (CRZ)

