

Additional Agendas for the 116th Tamil Nadu State Coastal Zone Management Authority meeting scheduled on 20.06.2022 at 10.30 A.M.

Agenda Item No.15 (1): Proposed construction of "MuthamizhArignar Dr. Kalaignar Pen Monument" in Bay of Bengal off the coast of Marina Beach near Triplicane Village, Chennai district.

The Executive Engineer, PWD, Building Construction Division-I, Chepauk, Chennai has proposed to construct "MuthamizhArignar Dr. Kalaignar Pen Monument" in Bay of Bengal off the coast of Marina Beach near Triplicane Village, Chennai district.

Description of the project

The proposed total area of the project is 8551.13 sq.m consisting of Pen Pedestal above sea, Pedestrian Pathway above sea, Lattice Bridge above beach & land, Pedestrian Pathway above beach, Pedestrian Pathway from MuthamizhArignar Dr. Kalaignar Memorial to bridge above beach.

Sl. No.	Description	Area in Sq.m.
1	Pen Pedestal above sea	2263.08
2	Pedestrian Pathway above sea	2073.01
3	Lattice Bridge above Beach & Land	1856.00
4	Pedestrian Pathway above Beach	1610.60
5	Pedestrian Pathway from MuthamizhArignar Dr. Kalaignar Memorial to bridge above beach	748.44
	Total	8551.13

- a) The proposed PEN monument is 42 mtr. tall, surrounded by landscaped gardens and located in the Bay of Bengal at a distance of 360 Mts. from the shore designed in remembrance for his contributions towards Tamil literature.
- b) There will be a pedestrian bridge from his memorial to the PEN Monument at an elevation of 6 Mts. from the High Tide Line.
- c) The length of the bridge over the land is 290 Mts. (220 mts. in CRZ-II, 70 Mts. in CRZ-IA) and over the Sea in 360 Mts. (CRZ-IVA), totally covering a travel distance of 650 Mts.
- d) For public convenience, width of the Bridge will be 7 mts. with 3 mts. of glass flooring.

e) The following are the components of the project

- Pen Pedestal
- Pedestrian cum Glass Walkway
- Lattice Walkway
- Elevated Walkway

f) Based on the bathymetry survey, the minimum depth is required for construction of monument is 6m from HTL to seabed which is achieved at the 360m from LTL of the sea.

Other features of the project

- The project proponent has proposed to treat about 1 KLD of sewage generated during the construction phase through Package STP and sanitary facilities available inside the existing memorial (CRZ clearance obtained from TNSCZMA vide Proc.No.P1/2462/2021 dated 06/01/2021 dated 06/01/2022) will be utilized for the proposed sewage generated during the operation Phase.
- The treated water from the existing memorial will be used for green belt developed within the premises and sludge will be used as manure for green belt.
- The project proposes to generate 98 kg/day of municipal solid waste which would be disposed through municipal / corporation bin on daily basis.
- The project proposes to utilize DG power backup & 100KVA power sourced from TANGEDCO for lightning load and 125kVA DG set as power backup with 12 Lit/Hr of HSD as its fuel.
- The project proposes to dispose the used/spent oil generated from the DG set through TNPCB authorized recyclers.

Three Sites were considered

The Project Proponent stated that three sites were considered for the above project and the details are given below.

1. Site-I - Approx. 360m away from the LTL of Cooum River Mouth

The **Site-I** was rejected due to its proximity to the Cooum River mouth, heavy siltation warrants frequent desiltation, free tidal flow of water in the Cooum River will be affected and laying of new road is required.

2. Site II- Approx.360m from the LTL of Bay of Bengal along the axis of existing MuthamizhArignar Dr.Kalaignar Memorial:

The reasons for selection of this site:

- The **Site II** falls in the CRZ IV A
- Its proximity & significance of the existing memorial
- No disturbance to any other nearby activities
- There will be no additional traffic congestion and community pollution load since the visitors will be common for all the attractions nearby including Marina Beach & other memorials.
- laying of new roads does not arise.

Already Anna Square within which Muthamizh Arignar Dr. Kalaignar Memorial is located is a tourist attracting place. Hence it is more relevant placing this new project abutting Muthamizh Arignar Dr. Kalaignar Memorial

3. Site III- Approx. 360m from the LTL of Bay of Bengal near the Loop Road.

The **Site III** which falls under CRZ IV A was rejected due to its proximity to Olive Ridleys nesting sites, nearness to the fish market, fishing yard & nearer to Light house.

Expected cost and CRZ classification of the project

The expected cost of the project is about Rs.81 crores. The proposed site falls under CRZ-IA, CRZ-II and CRZ-IVA areas.

Recommendations of DCZMA for Chennai district

The subject was placed before the DCZMA meeting held on 14.06.2022 and the DCZMA has resolved to recommend the above project to the Tamil Nadu State Coastal Zone Management Authority subject to the following conditions that

1. The project proponent should ensure that proposed activities in CRZ areas are as per provisions of CRZ Notification, 2011 (amended time to time).

2. Prior Planning permission should be obtained for the proposed constructions, if any, from the local authorities concerned and the proposed constructions should satisfy the local Town and Country Planning regulations and Para 8(I) CRZ-I (i) & (ii), 8 (i) II CRZ II (i), (ii) and (iii) of CRZ Notification 2011. The FSI/FAR should be as on 19.02.1991.
3. The proposed construction shall not disturb the land and marine ecology.
4. The Proposed activity shall not interfere with the fishermen, Marine patrol & Public movement at any point of time. Also the fishing boats movement shall also not be hindered.
5. No ground water from Coastal regulation zone area shall be tapped for the project.
6. The project proponent shall treat the sewage through Sewage treatment plant of 10 KLD Capacity provided at the existing memorial. The treated water shall be used for green belt developed within the memorial premises and the sludge generated shall be used as manure for green belt.
7. All the solid waste shall be handled as per the Solid waste Management Rules 2016.
8. The Project shall explore the possibilities of allocation of funds for preserving the ecology and environment (land and marine).
9. The proponent shall comply with the Environmental Management Plan both during construction and operational phases.
10. The construction shall be designed and constructed in accordance to the seismic factors applicable to moderate intensity zone.
11. The construction shall comply with the Construction and Demolition Waste Management Rules, 2016.
12. The project proponent shall undertake the establishment only after getting the required Clearances from Competent authorities such as Planning Permission, Plan Approval etc., including the clearance under CRZ Notification, 2011 and other statutory clearances.
13. As proposed the project proponent shall install Solar Panel of ROHs standards for lighting within the project premises.

Provisions in the CRZ Notification, 2011

- As per CRZ Notification, 2011, Para 3, (xiii) Dressing or altering the Dressing or altering the sand dunes, hills, natural features including landscape changes for beautification, recreation and other such purpose [except utilizing the rocks/hills/natural features, only in CRZ- IV (A) areas, for development of memorials/ monuments and allied facilities, by the concerned State Government]
- Para 4 (ii) (j) construction of memorials/ monuments and allied facilities by the concerned State Government in CRZ-IV (A) areas in exceptional cases, with adequate environmental safeguards, subject to the following, namely:-
 - (A) The concerned State Government shall submit justification for locating the project in CRZ area along with details of alternate sites considered and weightage matrix on various parameters including environmental parameters to State CZMA who will examine the project and make recommendation to the Central Government (MoEF) for grant of Terms of Reference (ToRs) for preparation of an environmental impact assessment report by the State Government;
 - (B) on grant of ToRs by the Central Government, the concerned State Government shall submit the draft Environmental Impact Assessment report (EIA) with Environmental Management Plan (EMP), draft Risk Assessment Report with Disaster Management Plan (DMP) including on-site and off-site emergency plan and evacuation plan during emergency, to the State Pollution Board for conduct of public hearing for the proposed project in accordance with the procedure laid down under the Environment Impact Assessment notification;
 - (C) The concerned State Government shall submit final EIA, EMP, Risk Assessment and DMP after addressing the relevant issues raised by the public during the public hearing, to State CZMA for their examination and recommendation to MoEF.

(Note: Construction of memorials / monuments would generally discouraged in CRZ-IV areas and the same would be allowed only in exceptional cases with adequate environmental safeguards.)

The Authority may consider.