



सत्यमेव जयते

File No: TOR/1/2024
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
KERALA)



Dated 24/07/2024



To,

CHEIF EXECUTIVE OFFICER
KERALA MARITIME BOARD
VALIYATHURA VALLAKADAVU P.O, THIRUVANANTHAPURAM, KERALA, 695008
ceo.kmb@kerala.gov.in

Subject: Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

This is in reference to your application for Grant of Terms of Reference under the provision of the EIA Notification 2006-regarding in respect of project Manual Dredging at Azhikkal Port Limits for Maintaining Navigational Channel Depth and Filtration of Dredged Sand at Kadavus. submitted to Ministry vide proposal number SIA/KL/INFRA1/460508/2024 dated 05/02/2024.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO24B3504KL5729358N
(ii) File No.	TOR/1/2024
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	7(e) Ports, harbors, breakwaters, dredging
(vii) Name of Project	Manual Dredging at Azhikkal Port Limits for Maintaining Navigational Channel Depth and Filtration of Dredged Sand at Kadavus.
(viii) Name of Company/Organization	KERALA MARITIME BOARD
(ix) Location of Project (District, State)	KANNUR, KERALA
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	no
(xiii) Applicability of Specific Conditions	no

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the Ministry for an appraisal by the State Environment Impact Assessment Authority(SEIAA) Appraisal Committee (SEIAA) in the Ministry under the provision of EIA notification 2006 and its subsequent amendments.

4. The above-mentioned proposal has been considered by State Environment Impact Assessment Authority (SEIAA) Appraisal Committee of SEIAA in the meeting held on 25/04/2024. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code above.
5. The brief about configuration of plant/equipment, products and byproducts and salient features of the project along with environment settings, as submitted by the Project proponent in Form-1 (Part A, B and C)/EIA & EMP Reports/presented during SEIAA are annexed to this EC as Annexure (1).
6. The SEIAA, in its meeting held on 25/04/2024, based on information & clarifications provided by the project proponent and after detailed deliberations recommended the proposal for grant of Terms of Reference under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of specific and general conditions as detailed in Annexure (2).
7. The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the State Environment Impact Assessment Authority (SEIAA) Appraisal Committee hereby decided to grant Terms of Reference for instant proposal of M/s. CHEIF EXECUTIVE OFFICER under the provisions of EIA Notification, 2006 and as amended thereof.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary.
9. The Terms of Reference to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
10. This issues with the approval of the Competent Authority.

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N/A

Annexure 1

Specific Terms of Reference for (Ports, Harbors, Breakwaters, Dredging)

1. Site Specific Studies

S. No	Terms of Reference
1.1	Changes in current patterns, littoral drifts, and erosion and accretion in shore zones
1.2	Impact of dredging on aquatic flora and fauna
1.3	Impact of dredging on aquifer and salt water intrusion
1.4	Impact of dredging on harbour waters and disposal sites
1.5	Possible alteration of bottom configuration and biota
1.6	Impact of dispersal of toxic or harmful chemicals around the disposal site
1.7	Variation in water and sediment quality
1.8	Water and sediment quality at the bar mouth immediate to dredging area.

1. Project Details

S. No	Terms of Reference
1.1	Reasons for selecting the site with details of alternate sites examined/rejected/selected on merit with comparative statement and reason/basis for selection.
1.2	The examination should justify site suitability in terms of environmental angle, resources sustainability associated with selected site as compared to rejected sites.
1.3	The analysis should include parameters considered along with weightage criteria for short-listing selected site.
1.4	Submit the status of shore line change at the project site
1.5	A detailed draft EIA/EMP report should be prepared in accordance with the above additional TOR and should be submitted to the Ministry in accordance with the Notification.
1.6	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
1.7	Any further clarification on carrying out the above studies including anticipated impacts due to the project and mitigative measure, project proponent can refer to the model ToR available on Ministry.

2. Land Use, Land Acquisition And R&R

S. No	Terms of Reference
2.1	Details of the land use break-up for the proposed project. Details of land use around 10 km radius of the project site.
2.2	Submit details regarding R&R involved in the project

3. Esz, Crz, International Boundary And Acts

S. No	Terms of Reference
3.1	Examine and submit detail of land use around 10 km radius of the project site and map of the project area and 10 km area from boundary of the proposed/existing project area, delineating project areas notified under the wild life (Protection) Act, 1972/critically polluted areas as identified by the CPCB from time to time/notified eco-sensitive areas/interstate boundaries and international boundaries.
3.2	Erosion and accretion study at the mouth of the creek which is adjacent to the proposed site be carried out and submitted
3.3	Detailed modelling studies to understand whether the selected site can withstand severe cyclones

S. No	Terms of Reference
	and develop design in accordance to due safety measures.
3.4	Submit superimposing of latest CZMP as per CRZ Notification (2011) on the CRZ map. And also submit a copy of layout superimposed on the HTL/LTL map demarcated by an authorized agency on 1:4000 scales.
3.5	Submit a complete set of documents required as per para 4.2 (i) of CRZ Notification, 2011.
3.6	Hydrodynamics study on impact of dredging on flow characteristics shall be carried out.
3.7	A detailed study on the impact of proposed activity on marine ecology and marine biodiversity with specific focus on the corals, mangroves and Mud flats in the proximity of the site should be conducted and required mitigation plan be submitted.
3.8	A management plan for the area under which mangroves are or likely to be removed and compensatory mangrove plantation plan be submitted.

4. Remote Sensing & Gis

S. No	Terms of Reference
4.1	Analysis should be made based on latest satellite imagery for land use with raw images.

5. Forest And Wildlife

S. No	Terms of Reference
5.1	Submit the present land use and permission required for any conversion such as forest, agriculture etc.
5.2	land acquisition status, rehabilitation of communities/ villages and present status of acquiring Forest and Agricultural activities.
5.3	Submit details of the trees to be cut including their species and whether it also involves any protected or endangered species.
5.4	Measures taken to reduce the number of the trees to be removed should be explained in detail.
5.5	Submit the details of compensatory plantation.
5.6	Explore the possibilities of relocating the existing trees.
5.7	Examine the details of afforestation measures indicating land and financial outlay
5.8	Landscape plan, green belts and open spaces may be described. A thick green belt should be planned all around the nearest settlement to mitigate noise and vibrations.
5.9	The identification of species/ plants should be made based on the botanical studies.

6. Water Environment/quality Analysis/ Hydrology And Water Bodies

S. No	Terms of Reference
6.1	Examine the details of water requirement, impact on competitive user, treatment details, use of treated waste water. Prepare a water balance chart.
6.2	Examine and submit the water bodies including the seasonal ones within the corridor of impact along with their status, volumetric capacity, quality likely impacts on them due to the project.
6.3	Submit the details of fishing activity and likely impacts on the fishing activity due to the project.
6.4	Specific study on effects of construction activity and pile driving on marine life

7. Waste Management, Drainage And Steps

S. No	Terms of Reference
7.1	Submit a copy of the contour plan with slopes, drainage pattern of the site and surrounding area
7.2	Examine details of Solid waste generation treatment and its disposal.
7.3	Details of oil spill contingency plan.
7.4	Details of the layout plan including details of channel, breakwaters, dredging, disposal and reclamation.

8. Terrain And Topography

S. No	Terms of Reference
8.1	Submit the details of terrain, level with respect to MSL, filling required, source of filling materials and transportation details etc.
8.2	Submit a copy of layout superimposed on the HTL/LTL map demarcated by an authorized agency on 1:4000 scale along with the recommendation of the SCZMA.
8.3	Details of bathymetry study.
8.4	Details of ship tranquillity study.
8.5	The ecologically fragile area including CRZ 1A area etc. shall be demarcated and superimposed on the layout plan and submitted.

9. Road/transport Connectivity And Traffic Measures

S. No	Terms of Reference
9.1	Examine road/rail connectivity to the project site and impact on the existing traffic network due to the proposed project/activities
9.2	A detailed traffic and transportation study should be made for existing and projected passenger and cargo traffic.
9.3	Details of handling of each cargo, storage, transport along with spillage control, dust preventive measures.
9.4	In case of coal, mineral cargo, details of storage and closed conveyance, dust suppression and prevention filters.
9.5	An assessment of the cumulative impact of all development and increased inhabitation being carried out or proposed to be carried out by the project or other agencies in the core area, shall be made for traffic densities and parking capabilities in a 05 kms radius from the site. A detailed traffic management and a traffic decongestion plan drawn up through an organization of repute and specializing in Transport Planning shall be submitted with the EIA.

10. Rain Water Harvesting

S. No	Terms of Reference
10.1	Details of rainwater harvesting and utilization of rain water.

11. Baseline Data

S. No	Terms of Reference
11.1	Examine baseline environmental quality along with projected incremental load due to the proposed project/activities.

12. Air Environment

S. No	Terms of Reference
12.1	The air quality monitoring should be carried out according to the notification issued on 16th November, 2009.

13. Environment Management/ Monitoring, Mitigative Measures And Risk assessment Details

S. No	Terms of Reference
13.1	Examine separately the details for construction and operation phases both for Environmental Management Plan and Environmental Monitoring Plan with cost and parameters.
13.2	Submit details of a comprehensive Risk Assessment and Disaster Management Plan including emergency evacuation during natural and man-made disasters.

S. No	Terms of Reference
13.3	Details of desalination plant and the study for outfall and intake

14. Court/ Litigation Records

S. No	Terms of Reference
14.1	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

15. Environment Responsibility

S. No	Terms of Reference
15.1	As per the Ministry's Office Memorandum F. No. 22-65/2017-IA.III dated 30th September, 2020, the project proponent, based on the commitments made during the public hearing, specific studies shall include all the activities required to be taken to fulfill these commitments in the Environment Management Plan along with cost estimates of these activities, in addition to the activities proposed as per recommendations of EIA Studies and the same shall be submitted to the ministry as part of the EIA Report. The EMP shall be implemented at the project cost or any other funding source available with the project proponent.