

N3-5616-15

CERTIFICATE

Public hearing for the environmental clearance for the proposed construction of dedicated berth and other infrastructure facilities for the administration of the Union Territory of Lakshadweep at Bepore, Kozhikode for CPWD, Kozhikode on 26-02-15 was conducted by Sri Anilkumar, Election Deputy Collector.

Certified that the rank of Deputy Collector Election is not less than the rank of Deputy Collector General (ADM).

Kozhikode,
27-08-2016.



Deputy Collector
Kozhikode


District Collector.

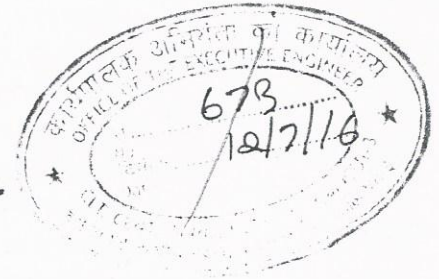
KERALA COASTAL ZONE MANAGEMENT AUTHORITY 23(158)

No: 7324/A1/15/KCZMA/S&TD.

Science & Technology (A) Dept.
Sasthra Bhavan, Pattom,
Thiruvananthapuram-4, Dated: 31.03.2016

From
The Member Secretary
KCZMA

To
The Administrator
SEIAA, Devikripa
Pallimukku, Petta P.O, Thiruvananthapuram



Sir,

Sub:- Science and Technology Department – KCZMA –CRZ clearance for the work of construction of Dedicated Berth and other infrastructure facilities for the Administration at the Union Territory of Lakshadweep at Beypore, Kozhikode-reg

Ref:- 1) Your letter No.23(158) CLTCD/520 Dated:7.10.2015

2) Decision of the 74th Meeting item No. 74.03.102 of KCZMA held on 26th February 2016.

I am to invite your attention to the reference cited and to inform that the KCZMA in its 74th meeting held on 26th February 2016 discussed the proposal of the Executive Engineer, CPWD seeking CRZ clearance for the work of construction of Dedicated Berth and other infrastructure at the Union Territory of Lakshadweep at Beypore, Kozhikode to handle the passenger and Cargo traffic. The project envisage construction of a dedicated berth of 200m length with a maximum of 20m width and other infrastructural facilities adjacent to the existing Beypore Port. Port Department of Kerala and Port Department& UT of Lakshadweep have entered into a Memorandum of Understanding (MOU) to construct a 200m long berth at Beypore Port under the ownership, control and jurisdiction of the Port Department, Government of Kerala establishing exclusively of the movement of passenger and cargo to and from Lakshadweep islands. The infrastructure proposed to be constructed at the proposed dedicated berth includes passenger terminal with all amenities, warehouses, and dredging and making the channel towards the berth. The project includes the following:

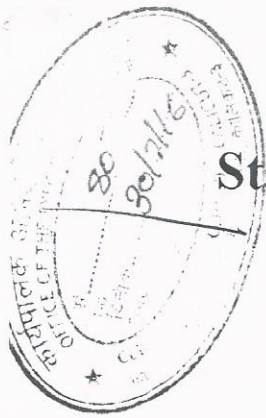
- Construction of dedicated berth structure of size 200 x 20m.
- Passenger amenities hall in three storied (G+2) RCC frame structure of size 18 x18m.
- Two warehouses of size 70m x 20m and 67m x 20m.
- Allied facilities such as land development, retaining structures, approach road, water and power supply, fire fighting arrangements and vehicle parking facilities.
- Land surface area is only 3600m² sqm, out of the total required area of 10000m². Filling with earth will be required with retaining wall along the perimeter for the construction of structures in the water covered area.
- Dredging in navigation channel and the turning circle. The total dredging quantity works out to be about 56744m³.

REC'D

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BB
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copy to Ek

23(158)
4/24/16
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State Environment Impact Assessment Authority (SEIAA) Kerala

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No. 1198/EC4/2016/SEIAA

Date: 25/07/2016

To

The Director (A)
Infrastructure, Miscellaneous & CRZ Projects
MoEF & CC
Paryavaran Bhavan, C.G.O. Complex
Lodhi Road New Delhi- 110003

Sir,

Sub : E.C – Construction of dedicated berth for Lakshadweep Administration at
Bey pore, Calicut, Kerala - CRZ Clearance – reg.

Ref : 1. ToR No.10-64/2013-I.A. III dt.19/02/2014
2. Letter No.7324/A1/15/KCZMA/S&TD dt.31/03/2016 from the Member
Secretary, KCZMA.

I am to forward herewith the letter second cited in original, received here missent.

Encl : Letter (original)

Yours faithfully,

G. Rajeev,
Administrator (SEIAA)

Copy to :

1. Executive Engineer,
CPWD, Calicut Central Division
M. S. Baburaj Road, Kollam,
Calicut – 673 003 (File letter No.23 (158) CLTCD 546 (H) dt.16/07/2016)
2. Member Secretary,
KCZMA, Sasthra Bhavan,
Pattom, Thiruvananthapuram – 4.

EIA STUDY FOR DEDICATED BERTH AT BEYPORE, CALICUT

TOR COMPLIANCE

S No	ToR Points	Compliance
1	Kadalundi Bird Sanctuary is about 4.2 km from the site, clearance from NBWL shall be obtained.	Application for NBWL clearance has been submitted to Divisional Forest Officer (DFO), Kozhikode.
2	HTL/LTL map to be prepared by an authorized agency on 1:4000 scale superimposed with the project site. Recommendation of Kerala Coastal Zone Management Authority to be submitted.	The HTL/LTL demarcation for the project site was conducted by National Centre for Earth Sciences Studies, Thiruvananthapuram. Kerala Coastal Zone Management Authority (KCZMA) has recommended the project for CRZ clearance vide letter dated 31.03.2016 (Copy enclosed).
3	Submit the details of the dredging, disposal and reclamation.	Proposed project envisages the dredging of navigation channel and the turning circle to maintain a depth of -3.1 m CD, considering the size of the vessels plying between Beypore and Lakshadweep. Total quantity of dredged material is estimated about 56000m ³ (Approx). A part of the dredged quantity of reuse and disposal material will be used for reclamation at site and balance will be disposed at designated dumping site sites of Beypore ports.
4	Submit the details of solid waste and management.	The solid waste generated during the construction phase of the proposed project will include paper, plastic bags, plastic containers, metal containers, old tyres, pieces of rope, food wrappers, bottles etc. During the project operation municipal solid waste shall be generated. Proposed facility will be used by about 225 passengers per day and quantity of solid waste is likely to be very small. Separate containers will be placed at designated locations for the collection of bio-degradable and non-biodegradable solid waste. Bio-degradable waste will be disposed off at designated dumping site of Kozhikode Municipal Corporation and non-biodegradable waste shall be sold to registered recyclers. A provision of Rs.2.54 million has been earmarked for the solid waste disposal.
5	Submit the details of water requirement, source, waste water treatment and disposal.	The peak manpower requirement in the project during construction and operation phase shall be about 50 and is about 25 respectively. There will an average of 225 passengers alighting from a ship per day. Hence, the total persons using the port has been estimated as about 250. The total water requirement for 250 persons has been

S No	ToR Points	Compliance
		<p>estimated as 11.25 m³/day @ 45 lpcd. Water supply to ship has been estimated as 33750 (@225x150 litres). Hence, total water requirement considering the projected passenger traffic in 2030 has been estimated as 45000 liters/day (i.e.11250+33750 lpcd). The source of the water supply is Kerala Water Authority (KWD).</p> <p>Considering a total of 250 passengers and staff, waste water generated shall be 9.0 m³/day (i.e. 0.8 X 11.25 m³/day). STP of 10 KLD capacity is proposed for sewage treatment. The Moving Bed Biological Reactor (MBBR) technology will be used for waste water treatment and treated water will be used for horticulture.</p>
6	Submit the details of the project components, channel, jetty.	<p>Major component of the proposed project will include the following:</p> <ul style="list-style-type: none"> • Construction of dedicated berth structure of size 200 x 20 m. • Passenger amenities hall in three storied (G+2) RCC frame structure of size 18 x 18 m. • Two warehouses of size 70m x 20m and 67m x 20m. • Allied facilities such as land development, retaining structures, approach road, water and power supply, fire fighting arrangements and vehicle parking facilities. • Construction of bulk services and development works. • Fire fighting arrangements • Sewage treatment plant with a capacity of 10 KLD is proposed. • It is proposed to provide a pollution free incinerator for the combustion of solid waste from the passenger hall, berth, warehouse and ship. <p>The details are described in Chapter-2 of EIA Report</p>
7	Submit the details of the ships/boats to be handled	<p>Presently there are 2 passenger vessels with a capacity of 225 passengers with draft 2.2 m, 3 high speed crafts of 1.35 m draft and 600MT cargo vessels of draft 2.7 m, which ply to and from Beypore to Lakshadweep.</p>
8	Submit the details on traffic study/road connectivity and impact.	<p>Lakshadweep Administration has been operating ships/vessel between Beypore and Mangalore Port in the mainland and Lakshadweep islands for the transport of men and material. The major Port of Cochin handles most of the Kerala State's sea</p>

S No	ToR Points	Compliance
		<p>borne traffic. The generation of port traffic for Beypore port depends on multipurpose cargo, passenger traffic, ferrying and tourism purposes between Beypore and the union territory of Lakshadweep. Cargo shipment such as POL Products, LPG & household goods for Lakshadweep are presently handled at Beypore Port. Currently, there are 2 passenger vessels of draft 2.2 m, 3 high speed crafts of 1.35 m draft and 4, 600MT cargo vessels of draft 2.7 m, which ply to and from Beypore to Lakshadweep.</p> <p>Beypore Port handled about 120,000 Tons of cargo during the year 2013-14 which includes 11,300 tons of hydrocarbons, 18,560 tons of soda ash, 11,830 tons of cement, 25,010 tons of metal / iron & steel products, 18,100 tons of food grains and miscellaneous cargo of 35,290 tons.</p> <p>CPWD proposes to construct a dedicated berth and other infrastructural facilities for the Administration of the Union Territory of Lakshadweep at Beypore, Kozhikode to handle the passenger and Cargo traffic.</p> <p>There is an existing approach road to the site which was previously used for Jankar jetty that was operating in this site location. The entry from the approach road shall be realigned to enter the dedicated berth taking into consideration easy manoeuvrability of vehicles and loaded trucks. A 10 m wide road with a longitudinal slope of 1 in 30 is provided with adequate camber and super elevation.</p>
9	Submit details of Environmental Management Plan and Environmental Monitoring Plan with parameters and costs.	The Details of Environmental Management Plan and Environmental Monitoring Programme with cost estimates is given in Chapter-5 and Chapter-7 of the EIA Report respectively. The cost estimate for implementing EMP shall be Rs.12.86 million and cost required for implementation of Environmental Monitoring Programme during construction phase is Rs. 4.37 million.
10	Submit details of Risk Assessment, Disaster Management Plan including emergency evacuation during natural and man-made disaster like floods, cyclone, tsunami and earth quakes etc.	The Details of Risk Assessment, Disaster Management Plan including emergency evacuation during natural and man-made disasters is outlined in Chapter-6 of the EIA Report.

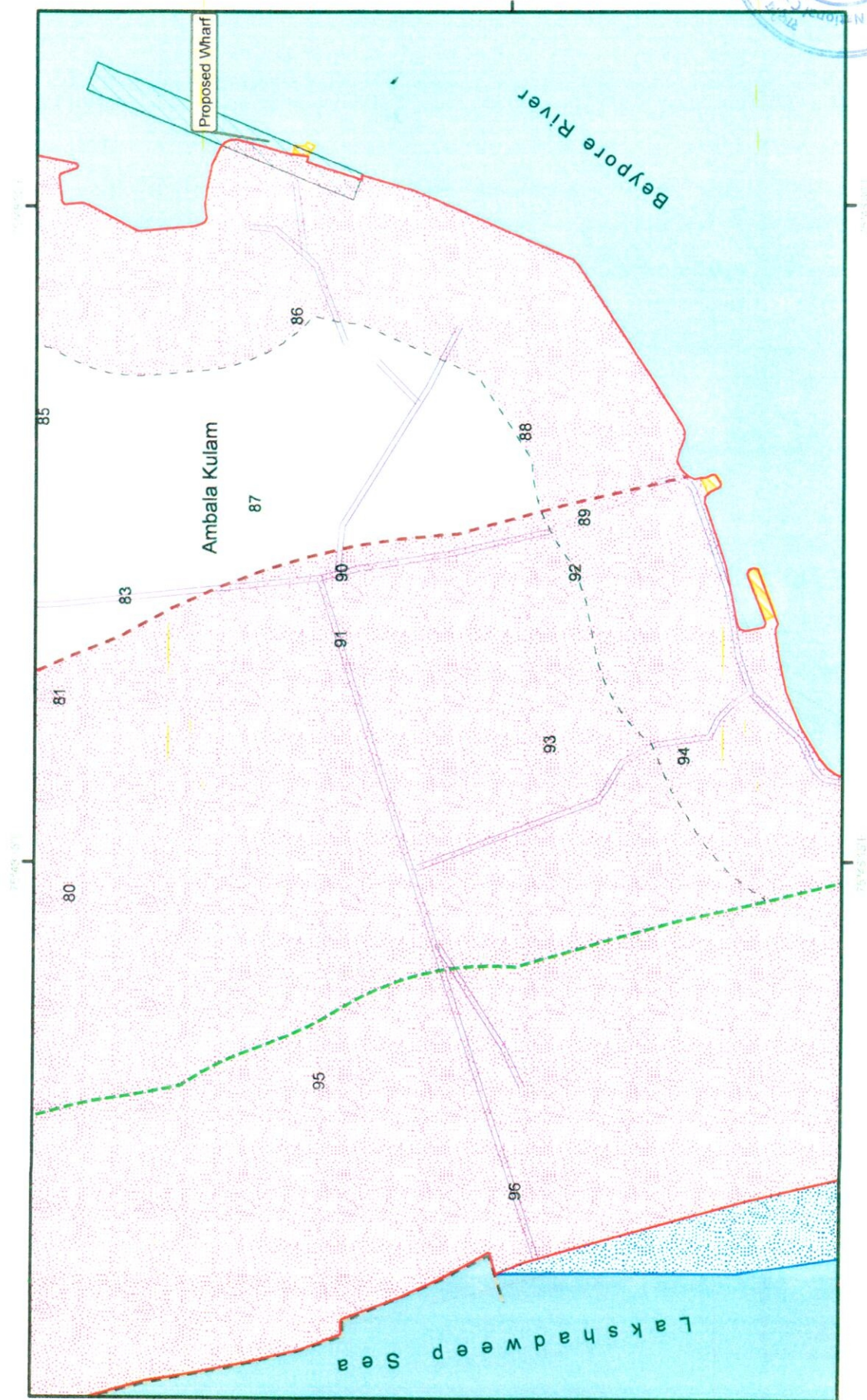
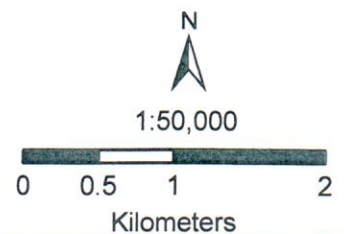


Fig 2. CRZ Map(Refer CRZ report for details)



Legend

- | | |
|-------------------------------------|---------------------------|
| --- 200m CRZ Line | Seawall |
| --- 500m CRZ Line | Mangrove - CRZ IA |
| --- CRZ line for River or Backwater | Inter Tidal Zone - CRZ IB |
| --- Road | Waterbody - CRZ IV - B |
| --- Railway | Waterbody - CRZ IV - A |



CRZ Categories 7 km around the proposed project site