

F.No.11-51/2012-IA.III
Government of India
Ministry of Environment, Forests & Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 110 003

Dated: 12th March, 2015

To,
The General Manager (Marine Services),
M/s Kamarajar Port Ltd.,
P.T.Lee Chengalvaraya Naicker Maaligai (I Floor),
23, Rajaji Salai, Chennai - 600 001,
Tamil Nadu

A
19/03
M (Env)

Subject: Development of additional coal berths (CB3 and CB4) at Kamarajar Port, Tamil Nadu by M/s Kamarajar Port Ltd. (Formerly known as Ennore Port Limited) - Environmental and CRZ Clearance - Reg.

Sir,

This is with reference to your letter no. EPL/MS/Env/CB3&4/2013 dated 05.06.2014 and subsequent letters dated 06.10.2014 and 05.11.2014 seeking prior Environmental and CRZ Clearance on the above-mentioned subject.

2. The Ministry of Environment, Forests & Climate Change has considered the application. It is noted that the proposal is for grant of Environmental and CRZ Clearance for **Development of additional coal berths (CB3 and CB4) at Kamarajar Port, Tamil Nadu by M/s Kamarajar Port Ltd. (Formerly known as Ennore Port Limited)**. The proposal was considered by the EAC in its meetings held on 25th - 27th August, 2014 and 26th - 28th November, 2014. The proponent has informed that:

- i. Kamarajar Port (Formerly known as Ennore Port) is the 12th major port of India, which is located on the Coromandel Coast about 20 km North of Chennai Port, Chennai, Tamil Nadu. This port is also the first port to become a public enterprise.
- ii. To meet the coal requirement of the Thermal Power Plants of Tamil Nadu Electricity Board (TNEB) (restructured as Tamilnadu Generation and Distribution Corporation Limited - TANGEDCO in November 2010), Kamarajar Port Limited had proposed to construct additional coal berths CB-3 (9 MTPA capacity) and CB-4 (9 MTPA capacity) at Kamarajar Port, Tamil Nadu.
- iii. The total dredging area is 336 m × 150 m (CB-3) and 336 m × 184 m (CB-4). Quantity to be dredged for CB-3 is Land based: 0.3 million m³ and Marine based: 2.1 million m³. Anticipated dredged material quantity for CB-4 is Land based: 0.3 million m³ and Marine based: 1.0 million m³. The length and breadth of the proposed coal berths is 336 m long × 27.5 m

- wide. The design dredged level is (-) 18 m. CD for CB-3 & CB-4. The area of the coal stack yard is 57.94 acre.
- iv. The land portions were cut for creation of port facility at many ports namely New Mangalore Port Trust, Vishakapatnam Port Trust, Paradip Port Trust, Gangavaram Port Trust and Karaikal Port Trust.
 - v. Coal will be transported to the Thermal Power Plant in an elevated conveyor system and also will be stocked in the stack yard. The conveyor system is fully covered with galvanised sheets and translucent sheets at regular intervals. Deck sheets at the bottom of the conveyor will be provided wherever necessary.
 - vi. Water sprinklers will be provided for dust control at coal stock yard.
 - vii. Dredged sand from the sand trap at Ennore creek should be disposed on north of port to prevent erosion of northern coast, which is practiced at vizag port.
 - viii. The Project will be completed in 24 months.
 - ix. The cost of the CB-3 is Rs.275.30 crore and CB-4 is Rs. 266.90 crore.
 - x. The proposed coal berths falling in CRZ-IV A and CRZ-III. The conveyor belt falling in CRZ-1B, III and IV B.
 - xi. **Approvals:** The Tamil Nadu Coastal Zone Management Authority has recommended the project vide letter no. 23187/EC.3/2014-1 dated 16.12.2014.
 - xii. The Terms of Reference (ToR) for this project was approved by MoEF vide F.No.11-51/2012-IA.III dated 21.08.2012.
 - xiii. **Public Hearing** was held on 18.02.2014 at Ennore Port premises.

3. The above project was considered by EAC in its meeting held on 25th - 27th August, 2014 and sought additional information viz. details of coal handling system from vessel to stockpile, details of sand trap and strategies for dredging of sand trap and disposal of dredge spoil with current situation, etc. PP submitted information vide letter dated 06.10.2014.

4. The proposal was considered by the Expert Appraisal Committee (EAC) and recommended in its 141st EAC meeting held on 26th - 28th November, 2014 for granting Environmental and CRZ Clearance. The Ministry of Environment, Forests & Climate Change hereby accords Environmental and CRZ Clearance for the above-mentioned **Development of additional coal berths (CB3 and CB4) at Kamarajar Port, Tamil Nadu by M/s Kamarajar Port Ltd. (Formerly known as Ennore Port Limited)** under the provisions of the Environment Impact Assessment Notification, 2006 and CRZ Notification, 2011 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:

A. SPECIFIC CONDITIONS:

- (i) "Consent for Establishment" shall be obtained from State Pollution Control Board under Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974.
- (ii) Dust screens shall be provided with a height of 2 meter above the maximum stack height. Water sprinkling shall be carried out for

settling dust. Three layers of green belt of tall growing trees shall be provided on all sides.

- (iii) Water sprinklers should be provided in the area of coal loading and unloading, storage and vehicle path/roads.
- (iv) Energy conservation measures shall be provided which may include use of solar panels, wind mill etc.
- (v) There shall be no washing of conveyor belt.
- (vi) All the conditions stipulated by Tamil Nadu Coastal Zone Management Authority (TNCZMA) vide letter No. 23187/EC.3/2014-1 dated 16.12.2014, shall be complied with.
- (vii) All the recommendation of the EIA/EMP, Disaster Management Plan shall be strictly complied within letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF&CC along with half yearly compliance report to MoEF&CC-RO.
- (viii) Cargo shall be unloaded directly into hopper from the ship and transportation of coal shall be through covered/closed trucks/ rail only. Closed conveyor belt shall be used for loading the product in the barges.
- (ix) The dredge material shall be reused for low level rising wherever possible and excess shall be dumped into sea at the designated dumping areas identified based on mathematical model studies.
- (x) To prevent discharge of sewage and other liquid wastes including ballast into marine environment, adequate system for collection, treatment and disposal of liquid wastes must be provided
- (xi) Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that the untreated effluents and solid wastes are not discharged into the water or on the beach; and no effluent or solid waste shall be discharged on the beach.
- (xii) The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
- (xiii) The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (xiv) The commitment made by the Proponent to the issue raised during Public Hearing shall be implemented by the Proponent.

(xv) Corporate Environment Responsibility:

- a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.
- b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/deviation/violation of the environmental or forest norms/conditions.
- c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
- d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. GENERAL CONDITIONS:

- (i) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (ii) Full support shall be extended to the officers of this Ministry/ Regional Office at Chennai by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (iii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Chennai regarding the implementation of the stipulated conditions.
- (iv) Ministry of Environment, Forests & 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.
- (v) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (vi) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forests & Climate Change.
- (vii) The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
- (viii) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.

- (ix) Full support should be extended to the officers of this Ministry's Regional Office at Chennai and the offices of the Central and Tamil Nadu State Pollution Control Board by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (x) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.

5. These stipulations would be enforced among others under the provisions of 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 and EIA Notification 1994, including the amendments and rules made thereafter.

6. 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 proponents from the respective competent authorities.

7. The project proponent shall 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 Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forests & 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 Regional office of this Ministry at Chennai.

8. 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.

9. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.

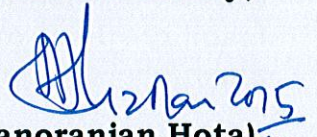
10. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

11. 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. The clearance letter shall also be put on the website of the company by the proponent.

12. The proponent shall upload the status of compliance of the stipulated Clearance 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.

13. 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 Offices of MoEF&CC by e-mail.

Yours faithfully,


(Dr. Manoranjan Hota)
Director

Copy to:

1. The Secretary, Environment & Forests Department, Govt. of Tamil Nadu, Saint Geroge Port, Chennai.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
3. The Member Secretary, Tamil Nadu State Pollution Control Board, Chennai.
4. The Director, Environment Department, Govt. of Tamil Nadu, Chennai.
5. Additional Principal CCF (C), Ministry of Environment, Forests and Climate Change, Regional Office, 1st Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 34.
6. Guard File.
7. Monitoring File.

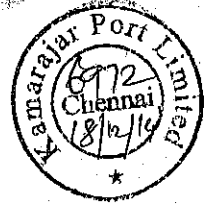

(Dr. Manoranjan Hota)
Director



Environment & Forests (EC-3)
Department,
Secretariat, Chennai – 600 009

Letter No. 23187/EC.3/2014-1, Dated 16.12.2014

From
Thiru Hans Raj Verma, I.A.S.,
Principal Secretary to Government



To
The Chairman,
National Coastal Zone Management Authority,
Government of India,
Ministry of Environment, Forests, & Climate Change,
Agni Wing, 5th Floor,
Indira Paryavaran Bhawan,
Jor Bag Road, Aliganj,
New Delhi – 110 003. (w.e.)

Sir,

Sub: Environment – Coastal Regulation Zone –
Kamarajar Port Expansion proposal –
Proposed construction and development
of two new additional berths of each
having 9 MTPA capacity inside the
premises of Kamarajar Port Limited,
Puzhuthivakkam village, Vallur post,
Chennai proposed by Kamarajar Port
Limited - Clearance under CRZ
Notification 2011 – Reg.

Ref: From the Director of Environment letter
No. P1/1536/2014, dated 08.12.2014.

I am directed to state that the Member Secretary, Tamil Nadu State Coastal Zone Management Authority / Director of Environment has informed that the Kamarajar Port Limited, Chennai has already developed two coal berths CB1 and CB2 and is under operation since 2001, with the coal handling capacity of 16 MTPA in order to meet the coal requirement of thermal power plants of Tamil Nadu Electricity Board. Now the Kamarajar Port Limited has proposed to construct two more coal berths (CB3 and CB4) each of 9 MTPA capacity.

(P.t.o.)

2) Further he has stated that the areas of Coal Berths are CB3 - 336m X 150m & CB4 - 336 m X 184m. The project area is under the direct control and within the limits and boundary of M/s. Ennore Port Limited. Project area co-ordinates are Latitude 13° 15' 40" N and Longitude 80°20' 15" E. The Kamarajar Port Limited has reported that the construction of two new coal berths would not involve any new land acquisition or resettlement / rehabilitation of population. The Ennore Port Limited has also proposed to provide top side facilities like gantry cranes, conveyor systems and stack yard through Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO) and the coal stackyard will be developed adjacent to the existing coal/ iron ore stack yard and single closed conveyor directly connecting to the proposed one of the coal berth and the stack yard. It is proposed to dredge 0.3 million m³ in the land area and 2.1 million m³ in marine area for CB3 berth and 0.3 million m³ in the land area and 1.0 million m³ in the marine area for CB4 berth. It is proposed to use excavated soil from the inner dock basis i.e., the land based dredging for land reclamation outside Port Main gate along the Port access road between NCTPS Railway line, NCTPS road and East of Ennore Creek. Part of the remaining dredged material will be disposed in the reclaimed area near Port main gate and adjacent to the existing coal/iron ore stack yard which is located about 2.5 km away from the Port boundary. The dredged material left after the disposal of above mentioned methods, will be disposed of in the marine disposal area, identified in Report for Phase II Development of Ennore Port, NIOT, 2004 which is located about 4 to 5 km away from Ennore Port in the perpendicular direction, into the sea. The proposed site is falling in inter tidal zone CRZ - I(B), CRZ-III and CRZ IV areas. The Project cost is Rs.542.20 crores.

3) Further, he has stated that the above project proposal was placed before the 80th meeting of the Tamil Nadu State Coastal Zone Management Authority held on 27.10.2014 and the Authority resolved to request the Kamarajar Port Limited to furnish the following additional details / documents for scrutiny.

- i) A detailed report should be furnished on shoreline changes due to the construction of two new additional berths and also dumping of dredging materials in the sea.
- ii) The details of composition and quality of dredging materials with reference to the quantum of dredging materials should be furnished. Further the disposal of dredging materials with reference to the dumping location and purpose shall be furnished.
- iii) The possible adverse impacts on the dumping of dredged material along the low line area of Buckingham Canal should be addressed properly as the dredged material will be loose and fine soil. In any case dredged material should not dumped in the intertidal area of the Buckingham canal.
- iv) Details on impact of dispersal of dredge material on the adjacent L & T shipyard area especially the navigational channels of that shipyard need to be included in the report. If need be additional modeling studies should be undertaken.

- v) The EIA/EMP with reference to the air quality should be furnished with reference to the nearest villages, habitations like Puzhuthivakkam, which is around one km from the project site.
- vi) It is noticed that the air quality PM₁₀ level has already reached a higher level at Ennore Port with the present activities. Hence specific report should be furnished with reference to the PM₁₀ level due to the addition of two berths for the import of coal with a detailed plan on handling of coal in the project area.
- vii) The noise levels indicated in the project report in the Port area are also high for the existing activities. The issue should be properly addressed in the EIA/EMP reports.
- viii) It is noticed that the Environment Social Welfare activities a sum of Rs.9.00 lakh per annum only allocated out of the project cost of Rs.500 crore. The allocation should be revised suitably.
- ix) The fresh water requirement and source for fresh water shall be furnished.

4) The Kamarajar Port Limited has furnished additional documents/details on the above items in lr. No. EPL/MS/Env/CB3 & CB4/2013 dated 17.11.2014.

5) Further he has stated that as per CRZ Notification 2011, vide para 3 (i) (a) & 3 (iv) (b) construction for the foreshore facilities in CRZ and land reclamation, bunding or disturbing /the natural course of seawater as a measure for control of erosion based on EIA studies is permissible activity. Further, as per CRZ Notification 2011, vide para 4 (i) (a) clearance shall be given for any activity within the CRZ if it requires waterfront and foreshore activities. However the proposal requires clearance from the Ministry of Environment and Forests, Government of India vide para 4 (ii) (f) of CRZ Notification 2011.

6) The above proposal was placed before the 81st meeting of the State Coastal Zone Management Authority held on 27.11.2014 and the Authority resolved to recommend the proposal to the Ministry of Environment and Forests, Government of India, subject to the following specific conditions:-

- a) There should not be any sea water intrusion or erosion on the adjacent coastal areas due to the proposed construction of two additional berths, dredging and also due to the dumping of dredged material.
- b) Dredged material should be dumped on the landward side and should not be dumped into the sea {CRZ-IV}, intertidal area {CRZ-IB} of the Buckingham canal and also in the salt pan areas as the salt pan areas are declared as CRZ-IB (inter tidal zone) as per the approved Coastal Zone Management Plan of Tamil Nadu.
- c) There should not be any impact of dispersal of dredge material on the adjacent L & T shipyard area especially the navigational channels of that shipyard.

- d) A continuous proper air quality monitoring should be undertaken around the project area to implement corrective, mitigation measures immediately on the noticing of any adverse impact.
- e) Necessary adequate preventive measures should be taken to maintain the air quality PM₁₀ level at Ennore Port within the standards and it should not cross the prescribed limit and suitable plan on handling of coal in the project area shall be implemented.
- f) Necessary measures should be taken to control the noise level within the prescribed standard levels.
- g) Closed conveyor system, with latest technology, should be established for coal handling as indicated in the report.
- h) Green belt development shall be implemented.
- i) There shall be no extraction of ground water.
- j) As indicated in the revised report, sufficient allocation of funds should be made to carryout outdoor Environment Social Welfare Activities.

7. Accordingly, the Director of Environment has sent a copy of proposal along with the reports, additional details, HTL map and minutes of the 80th and 81st meeting of TNSCZMA held on 27.10.2014 and 27.11.2014 and also requested that the proposals may be recommended to the Ministry of Environment and Forests, Government of India, for clearance under CRZ Notification 2011.

8. In line with the recommendation of the Tamil Nadu State Coastal Zone Management Authority, this Government recommend the proposal of Kamarajar Port Limited for the construction and development of two new additional berths of each having 9 MTPA capacity inside the premises of Kamarajar Port Limited, Puzhuthivakkam village, Vallur post, Chennai to the Chairman, National Coastal Zone Management Authority, Government of India, Ministry of Environment and Forests, New Delhi for clearance under CRZ Notification 2011, subject to the conditions stipulated at para 6 above.

Yours faithfully,


for Principal Secretary to Government

Copy to:-

The Director of Environment, Chennai - 15.

✓ The General Manager,
Kamarajar Port Limited,
Vallur Post, Chennai- 600 120.

(With a request to furnish 20 copies of the
proposal to Government of India, Ministry of
Environment and Forests, New Delhi)
SF/SCs.