

F.No.10-21/2009-IA.III
 Government of India
 Ministry of Environment, Forest & Climate Change
 (IA.III Section)

Indira Paryavaran Bhawan,
 Jor Bagh Road,
 New Delhi - 3

Dated: 14th July, 2016

To
 The Chief Engineer,
 M/s Cochin Port Trust,
 Willingdon Island,
 Cochin - 09 (Kerala)

E-mail: ce@cochinport.gov.in/coptce@sify.com; Fax: 0484-2666414;

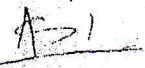
Sub: 'Development of Multiuser Liquid Terminal' at Cochin Port (Kerala) by Cochin Port Trust - Corrigendum in Environmental and CRZ Clearance reg.

Ref. : 1. Ministry's letter of even no. dated 12th February, 2016.
 2. Your letter no. nil dated 23rd June, 2016.

Sir,

This has reference to your letter dated 23rd June, 2016 regarding above mentioned subject. The date of issued environmental clearance and CRZ clearance for the above mentioned subject may be read as "12th February, 2016" instead of "12th February, 2015."

2.0 This issues with the approval of Competent Authority.


 (A N Singh)
 Scientist D

Copy to:

1. The Secretary, Department of Environment, Government of Kerala, Thiruvananthapuram
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-32
3. The Member Secretary, Kerala State Pollution Control Board, Palamoodu Junction, Pattom Place, P.O. Thiruvananthapuram - 04
4. Additional Principal Chief Conservator of Forests (C), Ministry of Environment Forest and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing 170, Main Road, Koramangala II Block, Bangalore - 34
5. IA - Division, Monitoring Cell, MoEF&CC, New Delhi.
6. Guard file.

(A N Singh)
 Scientist D

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Government of India
Ministry of Environment, Forest & Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road,
New Delhi - 3

Dated: 12th February, 2015

To

The Chief Engineer,
Cochin Port Trust.
Willingdon Island,
Cochin - 09 (Kerala)

E-mail: ce@cochinport.gov.in/coptce@sify.com; Fax: 0484-2666414;

Sub: 'Development of Multiuser Liquid Terminal' at Cochin Port (Kerala) by Cochin Port Trust - Environmental and CRZ Clearance - reg.

Sir,

This has reference to your proposal forwarded by the Member Secretary, Kerala Coastal Zone Management Authority (KCZMA), Kerala vide letter No. 2899/A2/2014/KCZMA/S&TD dated 06.03.2015, and your letter dated 15.07.2015, submitted to this Ministry for grant of Environmental and CRZ Clearance in term of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 and Coastal Regulation Zone (CRZ) Notification, 2011 under the Environment (Protection), Act, 1986.

2. The proposal for **'Development of a Multiuser Liquid Terminal' at Cochin Port (Kerala) by Cochin Port Trust**, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its meetings held on 19th - 21st May, 2015 & 7th - 9th September, 2015.

3. The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above said EAC meetings, are reported to be as under:-

(i) The project was accorded ToR vide letter No. 10-21/2009-IA-III dated 17.04.2014.

(ii) **Proposal:** Cochin Port Trust (CoPT) as part of its expansion programme have envisaged setting up a Multi-User Liquid Terminal (MULT) in the Puthuvypeen SEZ, Kochi (Kerala), for handling LPG, bunker fuel and other POL cargo. The project is of tremendous importance to the Govt. of Kerala in the backdrop of major road accidents happened in the past involving LPG bullet tankers and since the proposed terminal can reduce road haulage of LPG through Kerala. The location has been selected keeping in view the potential for future development, safety aspects, convenience for operation and special benefits that will be available in a SEZ area.

(iii) The proposed terminal is located at Latitude 9° 58' 27.99" N and Longitude 76° 14' 01.66" E in Puthuvypeen SEZ, Kochi.

(iv) The berthing facilities and other utilities/amenities proposed as part of the MULT are:

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- a. Main Berth with a capacity of 4.52 MMTPA consisting of service platform (with unloading arms for LPG (Propane/Butane), POL and bunker fuel), breasting dolphins, mooring dolphins, pipeline trestles, LPG associated facilities; (Design Vessel size - 260 m LOA, Beam - 32 m, Draft - 13 m, DWT-80,000)
 - b. Barge Berth (130m long X 10m wide) in the vicinity along with approach and pipeline trestle for loading of Bunker fuel and other POL cargo into Barges;
 - c. Main Berth and Barge Berth Basins to be dredged and maintained for a minimum depth of 14.50 m and 7.0 m respectively below CD including the required capital and maintenance dredging;
 - d. Construction of 3 storied Operational building and an access road to the berths from the main road;
 - e. Installation of unloading arms/hoses for handling LPG, Crude Oil, Bunker Fuel and other POL products; Navigational and Communication aids, Flotilla;
 - f. Providing Shore Protection Works along with reclamation required for streamlining the flow; and
 - g. Fire Fighting, surface drainage works, compound wall, gate complex, power and water infrastructure including standby power
- (v) The Main Berth structure consists of a Central Unloading Platform and 4 Nos. of Breasting Dolphins, two each on either side of the Central Unloading Platform, all supported on bored cast in situ RCC piles. To secure ship in position 4 mooring dolphins, two each on either side of the Breasting Dolphins will also be provided. The main berth will be capable of handling ships of 80000 DWT having 260m LOA, 32 m Beam and 13 m draft. The Barge Berth for berthing vessels of size upto 5000 DWT will consist of jetty head, approach trestle and pipeline trestle all supported on bored cast in situ RCC piles.
- (vi) The dredged material from the berth basin will be disposed off in the approved dumping area of CoPT, located about 20 km from the site, identified by Central Water and Power Research Station (CWPRS) based on mathematical model studies.
- (vii) CoPT has entered into a Concession Agreement with Indian Oil Corporation Ltd. (IOCL) for developing the MULT. Main berth and all other associated facilities for handling LPG will be constructed with the funding of IOCL. As per the Concession Agreement, IOCL will use the berth for a maximum of 161 calendar days for handling LPG in a year free of berth hire charges and CoPT will be free to use the terminal for the balance 204 days in a year. M/s IOCL have entrusted with CoPT, execution of construction of MULT jetty and its associated facilities. CoPT in turn tendered the work for execution through EPC mode.
- (viii) The PP informed that Cochin Port has a DMP which has been updated with Risk Analysis findings of the MULT project. The command and control hierarchy and protocol are laid down in case of an emergency situation. The Port Control Room will act as Emergency Control Centre (ECC) in case of an emergency. The Cochin Port Hospital will be the first line medical relief facility in any incidence. The Cochin Port Hospital will be the first line medical relief facility in any incidence.
- (ix) The facilities handling hazardous cargo have fixed fire fighting system conforming to OISD/NFPA/TAC guideline, and PESO license conditions. All facilities handling hazardous cargo have permission under MSFHC (amendment) Rules, 2000, and comply with conditions there in Fire Station located on the Willingdon Island has five well equipped fire tenders.

(x) EIA study for the project was carried out by WAPCOS, Ltd., Haryana. The project falls in CRZ-III and 150 m away from CRZ-I areas. The project specific HTL/LTL demarcation has been done by the National Centre for Earth Sciences Studies, Thiruvananthapuram. As per the report, there is good coverage of mangrove at the west and north of the proposed MULT site. The proposed development is at banks of Vembanad Lake and in back waters. The back water including RMP Canal and Ernakulam Channel and the bed are CRZ-IV. Puthuvypen is a Panchayat area and hence it is CRZ-III. The proposed activities are permissible under CRZ Notification, 2011.

(xi) **SCZMA Approval:** The Kerala Coastal Zone Management Authority (KCZMA) has recommended the project vide letter No. 2899/A2/2014/ KCZMA/S&TD dated 06.03.2015.

(xii) **Public Hearing** was conducted on 30.07.2014 at Collectorate Conference Hall, Ernakulam.

(xiii) **Investment/Cost:** The estimated cost of the project is Rs. 240 crores.

4. The EAC in its meeting held on 7th – 9th September, 2015, has recommended the project for grant of Environmental and CRZ Clearance. Project Proponent and the EIA Consultant namely WAPCOS Ltd, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be adequate and in full consonance with the presented TORs. As per recommendations of the EAC, the Ministry of Environment, Forest & Climate Change (MoEFCC) hereby accords Environmental and CRZ Clearance to the project '**Development of Multiuser Liquid Terminal**' at **Cochin Port (Kerala) by Cochin Port Trust**, under the provisions of the EIA Notification, 2006 and CRZ Notification, 2011 and amendments thereto and circulars issued thereon and subject to the compliance of the following specific and general conditions:-

A. SPECIFIC CONDITIONS:

- (i) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (ii) There shall be no destruction of mangrove at the west and north of the proposed MULT site during the construction as well as the operational phase.
- (iii) The dredged material shall be conveyed and disposed off in the specified dumping area i.e. Two dumping areas are one on south and the other on the north of approach channel, which are at approximately 12.999 km located at 29 50 57' 16.8" and 11.797 km located at 23 60 24' 47.2" from No. 7 and No. 8 buoys respectively. The material shall be dumped only beyond the distances specified above and where water depth is 20 m or more, spreading evenly over an area having a diameter of 3 km, in such a way that the depth shall not be less than 19 m at any time. The dredged material shall be dumped predominantly at the south dumping area and north dumping area may be used only when there are hindrances for accessing the southern dumping area.
- (iv) The chemical and biological characteristics of marine water quality shall be monitored at regular intervals, as committed under the EIA report, during construction and operation phase of the project. The monitoring shall conform to norms prescribed by the concerned State Pollution Control Board.

- (v) All mitigation and safety measures, as committed under the report on Risk Assessment and Disaster management plan, shall be strictly complied with.
- (vi) There shall be prompt alerts in case of any emergency.
- (vii) There shall be regular emergency and disaster management drills and public information and confidence building programmes.
- (viii) All the conditions/recommendations stipulated by KCZMA vide letter No. 2899/A2/2014/KCZMA/S&TD dated 6.3.2015, shall be complied with.
- (ix) All the recommendation of the EIA/EMP, Risk Assessment and Disaster Management Plan shall be complied within letter and spirit. All the mitigation measures submitted in the EMP/DMP report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEFCC along with half yearly compliance report to MoEFCC-RO.
- (x) There shall be no disposal of solid and liquid wastes in to the Coastal areas.
- (xi) There shall be no ground water drawal within CRZ area.
- (xii) A separate Environment Monitoring Cell shall be set up especially for this plant and details shall be submitted to the Ministry prior to the commencement of operation
- (xiii) Construction activity shall be carried out strictly as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in CRZ Notification, 2011 shall be carried out in Coastal Regulation Zone area.
- (xiv) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.
- (xv) The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.
- (xvi) The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
- (xvii) 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 Bangalore 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 Bangalore regarding the implementation of the stipulated conditions.
- (iv) MoEFCC 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 MoEFCC 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 MoEFCC.
- (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) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

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 MoEFCC 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 Bangalore.

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.

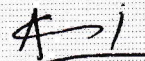
9. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

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

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 MoEFCC, 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 MoEFCC by e-mail.


(A N Singh)
Scientist D

Copy to:

1. The Secretary, Department of Environment, Government of Kerala, Thiruvananthapuram
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4. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forests and Climate Change, Regional Office (SZ), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, Koramangala II Block, Bangalore - 34
5. IA - Division, Monitoring Cell, MoEF, New Delhi - 3
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