

No. 11-144/2010-IA.III
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.

Dated: 13 May, 2011.

To
The Chief Construction Manager,
Paradip Haldia Barauni Pipeline,
Post Box No. 83, Paradip Mukhya Dak Ghar,
Paradip, Dist. Jagatsinghpur,
Orissa - 754 142

Subject: CRZ clearance for construction of Single Point Mooring (SPM), laying pipeline for Crude oil transfer from SPM to tank farm of Paradip Haldia, Barauni pipeline at Paradip, Orissa by M/s Indian Oil -Reg

This has reference to your application No: PHBPL/PDP/688/1.0 dated 05.04.2010 seeking prior CRZ Clearance for the above project under the Coastal Regulation Zone (CRZ) Notification, 1991. The proposal has been appraised as per prescribed procedure in the light of provisions under the Coastal Regulation Zone Notification, 1991/2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP, recommendations of State Coastal Zone Management Authority and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 18th - 20th January, 2011.

2. It is interalia, noted that the proposal involves setting up of a SPM and laying pipeline for Crude oil transfer from SPM to tank farm of Paradip- Haldia - Barauni at Paradip. Integrated Offshore Crude Oil Handling Project (IOCL), is operating a crude oil cross country Paradip-Haldia-Barauni pipeline namely PHBPL, originating from Paradip in the state of Orissa & traversing up to Barauni (Bihar) via Haldia (West Bengal). The Crude oil for PHBPL is presently received at the offshore Single Point Mooring (SPM-I) terminal located about 20 km off Paradip. The existing SPM-I unloading facility of Paradip is designed to handle Very Large Crude Carriers (VLCC). The tanker capacity is 320, 000 DWT and 37 MMTPA at present expandable to 60 MMTPA with revised tanker configuration. The length of submarine pipeline is 70.55 km and onshore 1.5 km (approx.). The size of the pipeline is 48" (1219 MM) OD. The SPM location is within the water portion of the Paradip port. The unloading operation will be in closed system. EIA study has been done through NIO, Goa. Construction activities as setting up of SPM and underwater



pipeline in marine environment will have negative effects. These are all one time operations and therefore, steady state conditions can be expected to be restored quickly. There is no impact of laying the submarine pipeline on Olive Ridely turtles since the major breeding and nesting ground- the Gahirmatha beach is located far from this area. Oil spill Modeling has been carried out for different seasons and different wind conditions. MIKE21 Spill Analysis module has been used to stimulate spill trajectories. During 30 hr period considered for modeling the spill movement, it was observed that the spill does not reach the coast in any of the spill scenarios. Paradip Port has Pollution Control vessel 'Kali' fitted with Skimmer and having provision for response spraying of chemical Dispersant.

The HTL demarcation has been carried out by NIO. There are no ecological sensitive areas along the pipe line route. The Orissa Coastal Zone Management Authority has recommended the project vide letter no. EE-11/2010-26443/F&Edated 16.12.2010.

4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary CRZ Clearance for the above project as per the provisions of Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:

5. SPECIFIC CONDITIONS:

- (i) "Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (i) It shall be ensure that the proposed activity shall not cause any disturbance to the Fishing activity.
- (ii) The facilities available at the existing pollution control vessel 'Kali' with the port must be suitably augmented to accommodate additional load arising out of the proposed development.
- (iii) A disaster Management Plan duly approved by National Coast Guard Authorities shall be obtained before commissioning of the project.
- (iv) The smooth and safe operation of the system will be ensured by incorporating a computerized SCADA (Supervisory Control And Data Acquisition) system. Any leakage in the pipeline shall be



immediately detected by the Computer system and product pumping shall be immediately cut off.

- (v) Regular patrolling of the pipelines needs to be done. This will help in identifying any activity that have the potential to cause pipeline damage or to identify small leaks whose effects are too small to be detected by instrument.
- (vi) Proponent shall confirm that no underwater blasting will be required for burying the sub-sea pipeline and if in the affirmative, details of methodology to be adopted for underwater blasting shall be provided together with appropriate modeling study for approval.
- (vii) A plan showing the existing land use in the proximity of the proposed tank farms shall be supplied the Ministry to ensure no adverse impact at times of accidental fire and associated hazards.
- (viii) As the proposed facilities are stand alone facilities separate fire fighting facilities shall be put in place in stead of putting too much reliance on the existing facilities of the Port. The approval of the competent authority shall be obtained for adequacy of fire fighting equipments, etc.
- (ix) Monitoring and inspection system of the sub-sea pipeline, SPM facilities, and underwater installations shall be submitted to the Ministry within 3 months.
- (x) The project shall be carried out as per international standards in vogue and duly certified by competent authorities before commissioning.
- (xi) A copy of approval of the port authorities for the project shall be submitted to the Ministry within 3 months.
- (xii) Oil Spill Contingency Management Plan shall be put in place along with the dedicated staff to deal with Oil spill in and around the port area shall be provided in the port. No oily wastes shall be discharged into the water bodies/mangrove areas.
- (xiii) All the recommendation of the EMP, DMP shall be complied with letter and spirit.
- (xiv) Markers should be installed at every 30 m to indicate the position of the pipe line.



- (xv) It shall be ensured that there is no displacement of people or houses as a result of the project.
- (xvi) Regular mock drills shall be conducted to check the effectiveness of the on-site Disaster Management Plan. The recommendations made in the Environmental Management Plan and Disaster Management Plan, as contained in the Environmental Impact Assessment and Risk analysis reports of the project, should be effectively implemented.
- (xvii) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (xviii) 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.
- (xix) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.

6. 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 Bhubaneswar 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 Bhubaneswar regarding the implementation of the stipulated conditions.
- (iv) Ministry of Environment & Forests 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 and Forests.
- (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) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.

7. 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.

8. 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.

9. 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 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 and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 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 Bhubaneswar.

10. Environmental 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.

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



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

13. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

14. 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 EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.



(Bharat Bhushan)
Director (IA-III)

13.05.2011

Copy to:

1. The Secretary, Department of Environment, Government of West Bengal, Writers Building, G - Block, 2nd floor, Kolkatta - 700 001
2. Chairman, West Bengal Coastal Zone Management Authority, Department of Environment, Government of West Bengal, Writers Building, G - Block, 2nd floor, Kolkatta - 700 001
3. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
4. Chief Conservator of Forests (C), Ministry of Environment and Forests, Regional Office, (EZ), A/3, Chandrasekharapur, PO Rail Vihar, Bhubaneswar-751023
5. The Chairman, West Bengal Pollution Control Board, Paribesh Bhavan, 10-A, Block LA, Sector III, Salt Lake City, Kolkata-700 098
6. Director (EI), Ministry of Environment and Forests.
7. Guard File.
8. Monitoring File.

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(Bharat Bhushan)
Director (IA-III)