

F.No. 11-34/2009-IA-III
Government of India
Ministry of Environment & Forests,
(IA Division)

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

Dated: 24th August, 2009.

To
M/s. Cairn Energy India Pty. Limited,
3rd & 4th Floors,
Orchid Plaza, Suncity,
Sector - 54,
Gurgaon - 122 002.

Subject: CRZ and Environmental Clearance for the installation & operation of Two Single Point Mooring (SPM) and interconnecting pipelines to evacuate crude oil and import diluents to the storage terminal & installation & operation of crude oil terminal at Village Bhogat Taluka-Kalyanpur, Distt. Jamnagar, Gujarat by M/s. Cairn Energy India Pty. Ltd. - Reg.

This has reference to the letter No. ENV-10-2008-1949-E, dated 21.03.2009 of Director (Environment), Forests & Environment Department, Govt. of Gujarat and subsequent letter dated 04.06.2009 seeking prior Environmental and CRZ Clearance for the above project under the EIA Notification, 2006 and Coastal Regulation Zone Notification, 1991. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 and CRZ Notification, 1991 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP 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 25th - 26th June, 2009.

2. It is inter-alia noted that the project involves the (i) Laying of onshore pipelines (24" heated insulated buried crude oil and 8" gas pipeline) from Salaya to Bhogat and twin 24" heated insulated buried crude oil pipeline from Bhogat terminal to the Single Point Mooring facility; (ii) Setting up of crude oil storage terminal at Bhogat with heated insulated Crude oil / diluents storage tanks (up to 12 tanks with each tank up to 300,000 barrels storage capacity, blending facility and natural gas based captive power generation (16 - 18 MW), Saline water desalination plant (2000 m³/day capacity) and marine disposal of desalination reject stream (~1000 m³/day) through sub-sea diffuser dispersion; and (iii) Setting up export pipeline system (~6km offshore) from Bhogat terminal to twin SPM system and interconnecting sub-sea off the coast into Arabian Sea at 30 m water depth contour. The present



proposal is for extending the Barmer-Salaya crude oil pipeline along with the related facilities to the Arabian Sea coast (off the coast of Bhogat – Kalyanpur Tehsil, Jamnagar district, Gujarat) and develop the crude oil storage and marine tanker crude oil loading/ diluents unloading infrastructure will enable the transportation of crude to refineries located along the coast of India. The proposed location off the coast of Bhogat was selected based on the study of NIO which confirmed that the location selected for landfall point and marine evacuation system is free from ecological sensitivity and archaeological sites. The archaeological city of Dwarka is approximately 40 km away from the landfall point while the port city of Porbandar is 55 km away. The total estimated cost for the project is approximately Rs.1000 crores.

3. The EAC in its meeting held on 22nd – 23rd May, 2008 suggested additional TOR including Public hearing. NEERI and NIO have conducted the EIA study. Public Hearing was conducted at Bhogat on 30-12-2008.

4. The EIA reveals that the proposed landfall point and the adjoining coastal stretch is away from fishing harbours and major routes used by fishermen. Flexible hoses (double carcass) will be provided with butterfly valves and break away coupling to automatically stop the loading operation in case of sudden turbulence. Remote control Shut- Down valves on marine pipeline system and surveillance vessels to be deployed to monitoring. Water requirement to be sourced from brackish groundwater, desalinated and reject stream disposed through sub-sea diffuser located in minimum 5 m WD-800 m. from shoreline.

5. The project also attracts Coastal Regulation Zone Notification, 1991. The State Government has forwarded the proposal for the issue of CRZ Clearance vide letter No. ENV-10-2008-1949-E, dated 21.03.2009.

6. 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 issue of Environmental and CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary Environmental and CRZ Clearance for the above project as per the provisions of EIA Notification, 2006 and CRZ Notification, 1991 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

7. Specific Conditions:

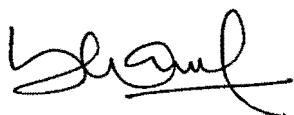
- (i) All the commitments made by the project proponent to the Director (Environment), Govt. of Gujarat and conditions stipulated in the letter No. ENV-10-2008-1949-E, dated 21st March, 2009 shall be strictly complied with.



- (ii) There shall be no temporary/permanent camp sites in CRZ area.
- (iii) All the recommendations of EIA and Disaster Management Plan shall be strictly complied with.
- (iv) Proper oil spillage contingency plan shall be put in place.
- (v) Any offshore vessel discharge shall comply the norms of MARPOL.
- (vi) Waste water generated shall be properly treated and reused, with the provision of oil water separator system.
- (vii) Oily waste to be stored in paved dedicated storage area and shall be disposed to authorized oily recyclers.
- (viii) Crude oil storage tank from area shall be impervious lined and concrete paved with dyke walls.
- (ix) Under Corporate Social Responsibilities (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project.
- (x) All the conditions stipulated by Gujarat Maritime Board vide their letter dated 25.11.2008 shall be strictly complied with.

8. General Conditions:

- (i) The construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and Central rules and regulations including the provisions of Coastal Regulation Zone Notification dated 19.2.1991 and the approved Coastal Zone Management Plan of Gujarat.
- (ii) In the event of any change in the project profile a fresh reference shall be made to the Ministry of Environment and Forests.
- (iii) This Ministry reserves the right to revoke this clearance, if any, of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (iv) This Ministry or any other competent authority may stipulate any additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.



- (v) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the offices of the Central and 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.

9. 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 Municipal Solid Wastes (Management and Handling) Rules, 2000 including the amendments and rules made thereafter.

10. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department and Civil Aviation Department from height point of view, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

11. The project proponent should 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 Gujarat 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 Bhopal.

12. 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.

13. Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

14. 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.



15. The proponent shall upload the status of compliance of the stipulated EC 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, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

16. 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.

17. 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.

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(Bharat Bhushan)
Director (IA-III)

Copy to:

1. The Principal Secretary, Department of Forests & Environment and Chairman, GCZMA, Govt. of Gujarat, Sachivalaya, Gandhinagar.
2. The Director, Forests & Environment Department, Govt. of Gujarat, Block No.14, 8th Floor, Sachivalaya, Gandhinagar - 382 010.
3. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
4. The Chairman, Gujarat State Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhinagar-382 010.
5. The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bhopal-462016 (M.P.)
6. Guard File.
7. Monitoring Cell, MoEF.


(Bharat Bhushan)
Director (IA-III)

24.08.2009