



सत्यमेव जयते

Government of India  
Ministry of Environment and Forests

F. No. J-11011/444/2011-IA II (I)

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To

Dated: 23<sup>rd</sup> May 2014

Mr. Andrew Catwright, GM Pipeline Operations  
**M/s Cairn Energy India PTY Limited,**  
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Sector 54, Gurgaon – 122 002  
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**Subject:** Augmentation in carrying capacity (175,000 BoPD to 200,000 BoPD) of Inter-State Pipeline of **M/s Cairn India Ltd** from Barmer (Rajasthan) to Bhogat (Gujarat) – **Amendment in Environmental Clearance- reg.**

Sir,

This is with reference to your letter no. BSPL/MoEF/2013/19 dated 13<sup>th</sup> November, 2013 regarding above mentioned project, wherein you have requested to allow the increase in carrying capacity of Crude Oil Pipeline (1,75,000 to 2,00,000 bopd) in the existing Barmer (Rajasthan) to Bhogat (Gujarat) Pipeline. It is noted that this Ministry has granted an environmental clearance to the two projects, namely:

- i. F.No.J-11011/234/2007-IA.II(I) dated 28.04.2008 – Environmental Clearance to M/s Cairn Energy India Pty Ltd. for Oil Evacuation pipeline with Associated Facilities from Mangala Terminal, District Barmer, Rajasthan to Salaya Terminal in district Jamnagar via Viramgam (dist. Ahmedabad)
- ii. F.No. 11-34/2009-IA.III dated 24.08.2009 –CRZ and EC to M/s Cairn Energy India Pty Ltd. for Installation & Operation of Two Single Point Mooring and Interconnecting Pipeline to evacuate crude oil terminal at village Bhogat, Taluka Kalyanpur, district Jamnagar, Gujarat.

2. It is further noted that the carrying capacity of the pipeline for carrying crude oil from 150,000 bopd to 175,000 bopd without any modifications in the existing infrastructure was approved by MOEF vide letter dated 05.09.2012. The present proposal is for further increase in the carrying capacity of the pipeline from 175,000 to 200,000 bopd without any change in the existing infrastructure.

3. The aforesaid proposal was considered by the Reconstituted Expert Appraisal Committee (Industry) in its 15<sup>th</sup> meeting held during 29<sup>th</sup>– 30<sup>th</sup> January, 2014. The Committee noted that increase in crude oil carrying capacity from 175000 -200000 bopd will be achieved by injection of Drag Reducing Agent (DRAs) and operation of existing mainline pumps with existing pipeline facilities. DRA are high molecular weight, poly – olephins with long chain polymers used globally to reduce frictional pressure losses across the pipeline and utilize the same to improve the flow performance of the export pipeline. DRA injection rates are very less (10 PPM) & with daily consumption of 300 litres i.e. 110 KLPA. Main pipeline pumps at M Pt (4 nos. x 50,000 BoPD) and Viramgam Terminal (2 W + 1 S x 90,000 BoPD) will be optimally operated. No additional facilities, land

energy and water consumption is envisaged. The Committee recommended the proposal for amendment in environmental clearance.

4. In view of the fact that the proposal involves capacity augmentation of the pipeline without any modification in the existing infrastructure, the Ministry has no objection for capacity augmentation from 1,75,000 bopd to 2,00,000 bopd. However, compliance to the following conditions shall be ensured:

- i. No additional facilities, tankages or pipeline system will be installed.
  - ii. All the specific conditions and general conditions specified in the environmental clearance accorded vide Ministry's letter no. J-11011/234/2007-IAII (I) dated 28<sup>th</sup> April, 2008 (pipeline associated facilities), J-11011/34/2009-IAII(I) dated 24<sup>th</sup> August, 2009 and J-11011/444/2011- IA II (I) dated 4<sup>th</sup> September, 2012 shall be complied with.
  - iii. 'Consent to Establish and Operate' for the revised proposal shall be obtained from the Rajasthan Pollution Control Board and Gujarat Pollution Control Board.
  - iv. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
5. All other conditions also remain the same.
6. This issues with prior approval from the Competent Authority.



(Dr. T. Chandini)  
Director

Copy to:

1. Secretary, Department of Environment and Forests, Government of Rajasthan, Jaipur, Rajasthan.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
3. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur, Rajasthan.
4. Chief Conservator of Forests (Central), Ministry of Environment and Forests, Region Office (Central), Kendriya Bhawan, 5<sup>th</sup> Floor, Sector-H, Aliganj, Lucknow – 226 024, U.P.
5. JS, IA-II, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
7. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
8. Guard File/Monitoring File/Record File.