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No. J-11011/175/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I. A. Division)

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

E-mail : plahujarai@yahoo.com

Telefax: 011 - 24363973

Dated May 17, 2007

To,

The Director Operation -Rajasthan
M/s Cairn Energy India PTY Limited
3rd & 4th Floor, Orchid Plaza,
Suncity, Sector 54
Gurgaon - 122 002

Sub : Proposed Hydrocarbon Development and Production of Guda Field in RJ-ON-90/1 block in Barmer and Jalore districts in Rajasthan by M/s Cairn Energy India Pty Ltd. - Environmental Clearance reg.

Sir,

This has reference to your letter no. HSE/RS/02/GUDA/015 dated 19th February 2007 on the above mentioned subject.

2. The Ministry of Environment and Forests has examined your application. It is noted that the project envisages setting up of 33 well pads in the RJ/ON-90/1 block spread over an area of 55 km² and drilling upto 78 production wells. Out of 33 well pads, 17 well pads will be established in Barmer district and remaining 16 well pads will be established in Jalore district. The well pads in close proximity would be interconnected by underground pipelines and total infield pipelines length would be approx. 25 Km. The maximum aggregate crude oil production expected from all 33 well pads in Guda field is upto 6000 Barrels of Oil Per Day (BOPD).

3. It is noted that no ecologically sensitive area such as national park/wild life sanctuary/biosphere reserve etc. is located within 10 km distance of the Guda field. It is noted that most of the well pads will be a stand alone unit and will include single / multiple well heads and collection header (manifold), phase separation (three phase), oil storage / export and necessary utilities such as warehouse, camp site, power generation, fire fighting system and treatment systems. Sucker Rod

Pumps (SRP) will be installed when reservoir pressure is not enough to bring well fluid to the surface. Oil will be stored in the well pads and then exported through road tankers. Land Rings will be used for the drilling of production wells. Water requirement of 142m³/d will be met from the registered water supplier or from Mangala desalination plant. Power requirement of 250KVA per well pad will be met from the diesel/gas fired DG set. The drill cuttings generated will be collected in lined pits and disposed of in the Common TSDF in Mangala terminal or bio remediated and used as road filler or any other disposal method approved by MOEF. The used oil will be sold to the registered reproprocessors. Based on the quantity of generation, the produced water will be either solar evaporated or disposed in dump well. Public hearings of the project were held on 20.1.2007 at Gudamalani and 22.1.2007 at Sanchore. Total cost for the project is Rs. 450 crores.

4. The project has been considered in accordance with the para 2.2 {2.2.1(i)(a)} interim operational guidelines of the Ministry issued on 13th October 2006 issued by the Ministry of Environment and Forests under Para 12 of the EIA Notification 2006.

5. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification, 2006 subject to strict compliance of the following Specific and General Conditions.

A. SPECIFIC CONDITIONS:

- i. The company shall comply with the guidelines for disposal of solid waste, drill cutting and drilling fluids for onshore drilling operation notified vide GSR.546(E) dated 30th August, 2005.
- ii. The surface facilities shall be installed as per applicable codes and standards, international practices and applicable local regulations.
- iii. The top soil removed wherever suitable shall be stacked separately for reuse during restoration process.
- iv. Drilling waste water including drill cuttings wash water shall be collected in disposal pit lined with HDPE lining evaporated or treated and shall comply with the notified standards for on-shore disposal. The company shall dispose off the dried solids in common TSDF Facility in Mangala Terminal or bio-remediated and used as road filler or any other disposal method approved by MOEF.

- v. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the flare pit shall be lined with refractory bricks and efficient burning system shall be provided. In case of overhead flare stacks, the stack height shall be provided as per the norms to minimize gaseous emissions and heating load during flaring.
- vi. The Company shall take necessary measures to reduce noise levels at the droll site by providing mitigation measures such as proper acoustic enclosures to the DG set and meet the norms notified by the MoEF. Height of all the stacks/vents shall be provided as per the CPCB guidelines.
- vii. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed.
- viii. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the oil shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- ix. Annual safety audit should be carried out for the initial three years by an independent agency and report submitted to this Ministry for ensuring the strict compliance of safety regulations on operation and maintenance.
- x. The project authorities should plant a minimum of 10 trees for every tree cut along the pipeline route in consultation with the local DFO (s).
- xi. The project authorities shall patrol and inspect the pipeline regularly for detection of faults as per OISD guidelines and continuous monitoring of pipeline operation by adopting non-destructive method(s) of testing as envisaged in the EMP. Pearson survey and continuous potential survey should be carried out at regular intervals to ensure the adequacy of cathodic protection system.
- xii. The fire water facilities at the terminals must be designed as per OISD-117 guidelines. However, for fighting prolonged fires, the company should firm up a plan for assured water supply from near by ground water source/ surface water source. This must be complied before commissioning the project.

- xiii. Proper infrastructure and sanitation facilities shall be provided for the construction workers during construction. All the construction wastes shall be managed so that there is no impact on the surrounding environment.
- xiv. Compensation to the land oustees shall be paid as per Land Acquisition Act.
- xv. Company shall make an effort to supply drinking water to the nearest villages as part of Corporate Social Responsibility.
- xvi. The project proponent shall also comply with the environmental protection measures and safeguards recommended in the EIA /EMP report as well as the recommendations of the public hearing panel.
- xvii. The project proponent shall also comply with the environmental protection measures and safeguards recommended in the EIA /EMP / risk analysis report as well as the recommendations of the public hearing panel.

B. GENERAL CONDITIONS:

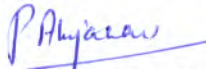
- i. The project authorities must strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board and the State Government.
- ii. No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. In case of 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.
- iii. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.

- iv. The project authorities must strictly comply with the rules and regulation with regarding to handling and disposal of Hazardous Wastes (Management and Handling) Rules, 1989/ 2003 wherever applicable. Authorization form the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- vii. The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
- viii. The Regional Office of this Ministry at Lucknow/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- ix. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry and Forests at <http://WWW.envfor.nic.in>. This shall be advertised within seven days of the issue of this letter in at least two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- x. The Project Authorities 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 commencing the land development work.

6. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.


7. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.

8. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management & Handling) Rules, 1989, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. L. Ahujarai)
Director

Copy to:

- i) Secretary, Department of Environment and Forests, Government of Rajasthan, Jaipur.
- ii) Chief Conservator of Forests, Central Region, Ministry of Environment and Forests, B-1/72, Sector-A, Aliganj, Lucknow-226020.
- iii) Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office complex, East Arjun Nagar, New Delhi-1100032.
- iv) Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
- v) JS(CCI-I), Ministry of Environment and Forests, CGO Complex, Lodhi Road, New Delhi
- vi) Monitoring Cell, Ministry of Environment & Forests.
- vii) Monitoring file.
- viii) Guard File.
- vii) Record File.


(Dr. P. L. Ahujarai)
Director

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Paryavaran Bhawan
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Telefax:011: 2436 4592

Dated:13th December, 2013
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To,

Shri Hari Kumar (Head HSEQ)
M/s Cairn Energy India Pty. Ltd.
3 & 4th Floor, Vipul Plaza Sun City,
Sector 54, Gurgaon – 122 002

E-mail : md@lorvinindustries.com / Lorvinindustries@gmail.com ;
Fax No.:08312471487

Subject : Hydrocarbon Development and Production of Guda Field in RJ-ON-90/1 block by M/s Cairn Energy India Pty. Ltd. - Regarding Extension of Validity of Environment Clearance.

**Ref : (i) MoEF letter of even no. dated 17th May, 2007.
(ii) Your letter no. ENV/RJ-ON/EC dated 19th February, 2013.**

Sir,

This is in continuation of this Ministry's letter referred above and your letter under reference, wherein you have requested for extension of validity of aforesaid environmental clearance letter for a period of five years.

2. The proposal referred above was placed before the Reconstituted Expert Appraisal Committee (Industry) in its 8th meeting held during 16th-17th May, 2013. It was noted that production capacity of Mangla Processing Terminal is going to increase from 175000 bopd to 200000 bopd. In order to achieve higher production rate of hydrocarbon from RJ-field within the already approved facility and infrastructure, CIL intends to develop GUDA field one of its potential minor field to achieve higher production and assess the prospective potentiality of other adjacent field in targeting maximum production. The Committee recommended for the extension of validity of EC by a period of five years.

3. The Ministry accepts the recommendation of the REAC (Industry) and extends the validity of the EC letter no. J-11011/175/2007- IA II (I) dated 17th May, 2007 for a period of five years w.e.f. 17.05.2012 till 16.05.2017.

4. This issues with the approval of Competent Authority.


16/12/13

(Dr. K K Garg)
Director

Copy to:-

1. The Principal Secretary, Environment & Forests Department, Government of Rajasthan, Secretariat, Jaipur.
2. The Chief Conservator of Forests (Central), Regional Office, Kendriya Bhavan, 5th Floor, Sector-H, Aliganj, Lucknow-226024.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Rajasthan Pollution Control Board, 20-A, Heera Bagh, Jaipur.
5. The Joint Secretary, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.


(Dr. K K Garg)
Director