



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

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F. No. J-11011/1095/2007-IA-II [I]

dated the August 20, 2008

To,

The Managing Director
M/s Focus Energy Limited
3rd floor, Gopala Tower
25, Rajendra Place, New Delhi-110008

Sub: Exploratory Drilling and Testing for Hydrocarbons in Block RJ-ON/6 in district Jaisalmer in Rajasthan by M/s Focus Energy Limited – environmental clearance regd.

Sir,

This has reference to your letter no. nil dated 13.6.2008 on the above mentioned subject submitted final EIA/EMP report

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Focus Energy Limited (FEL) have proposed for exploratory drilling activity for Oil and Gas in the onshore block RJ-ON/6 in district Jaisalmer in Rajasthan. The block has international boundary with Pakistan and is part of Thar Desert. No reserve forest, national park/wild life sanctuary is located within the block. It is proposed to drill 11 exploratory wells. This area is dry and characterized by extremes of temperature, severe drought, high wind velocity etc. There is no perennial river in the District Jaisalmer. The area is barren, undulating with its famous sand dunes and slopes towards the Indus valley and the Runn of Kutch. The block area is 4026.16 km². Approx. 104m x 80 m area will be cleared for drilling and associated activities. The land for the drill site will be obtained on lease from the land owners or the government department. In case of no discovery, the land would be restored to its original condition and given back to the land owners. The depth of the wells will be 2400-2500 m below mean sea level. Water based drilling mud will be used. The expected cost of the project is Rs.120.00 crores.

3. It is noted that the water requirement of 50 m³/d will be met from the water tankers. Power requirement will be met through the four numbers of DG set of capacity 448 KW and one 63 KW generator will be used to generate power. It is estimated that approximately 8000-10000 lts/day of HSD will be utilized as fuel for DG set. The wastewater will be treated as per the CPCB guidelines. Domestic wastewater will be treated in septic tanks /soak pits. The main air

emissions will be dust emission from the vehicular traffic on roads, exhaust emission from generators at well site, emissions from flares during testing and any abnormal drilling operations and exhaust fumes from vehicles. The air emissions from the DG sets will be controlled through adequate stack height. The drill cutting (250-500m³ / well) will be stored in HDPE lined pits. Used oil, filters and spare parts will be recycled or sold to authorized reproprocessors. To control the oil spills/leaks, oil spill contingency plan will be implemented. The minor spills, which will contaminate soil will be scraped and sent for proper disposal. The moderate spills less than 200 litres will be controlled by using shovels, sand and native soil. The contaminated soil after excavation will be stored in the lined area. Depending upon the volume, the soil will be disposed of in the disposal site or bio remediated. The major spills more than 200 litres will require special treatment such as bio remediation. The blow out preventors will be installed to control the sudden blow out of oil.

4. The project activity is covered in 1(b) and is of "A" Category under the Schedule of EIA Notification 2006. The Expert Appraisal Committee(Industry) in its 83rd meeting held on 14-16th July,2008 recommended the proposal for environmental clearance. Public hearing of the project was held on 13th May, 2008.

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 pay compensation for acquisition of private land as per the Central Government/State Government norms. The compensation to be paid to the land loser shall not be less than the norms/package as per the Policy on National Resettlement and Rehabilitation Rules, 2007.
- ii. 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.
- iii. The surface facilities shall be installed as per applicable codes and standards, international practices and applicable local regulations.
- iv. The top soil removed shall be stacked separately for reuse during restoration process.
- v. Monitoring of HC concentration in the ambient air and non-methanated HC shall be undertaken and data submitted to the Ministry and State Pollution Control Board.

- vi. 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 membership of common TSDF shall be obtained for the disposal of drill cuttings and hazardous waste. Otherwise secured land fill shall be created at the site with the Authorization of the State Pollution Control Board. The design of the secured shall be approved by the State Pollution Control Board.
- vii. The recyclable waste (oily sludge) and spent oil shall be disposed to the authorized recyclers.
- viii. Only water based drilling mud shall be used. The drilling mud shall be recycled. In case of use of synthetic oil based mud due to any problem due to geological formation for drilling, low toxicity, Oil Based Mud (OBM) having aromatic content < 1 % shall be used. If it is intended to use such OBM/SBM to mitigate specific hole problem, it should be intimated to Ministry of Environment and Forests/ State Pollution Control Board.
- ix. Quantities of storage and chemicals and additives required for drilling mud preparation shall be below the specified threshold for specified storage permitted under the MSIHC Rules.
- x. Pre hire rig inspection, safety meetings, tool box meeting, job safety analysis and audits shall be carried out to identify hidden /potential hazardous.
- xi. The Company shall take necessary measures to prevent fire hazards, containing oil spill and soil remediation as needed. At place of ground flaring, the overhead flaring stack with knockout drums shall be installed to minimize gaseous emissions during flaring.
- xii. The Company shall take necessary measures to reduce noise levels at the drill 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.
- xiii. To prevent fire and explosion at Oil and Gas facility, potential ignition sources should be kept to a minimum and adequate separation distance between potential ignition sources and flammable material should be in place.
- xiv. The company shall develop a contingency plan for H₂S release including all necessary aspects from evacuation to resumption of normal operations. The workers should be provided with personal H₂S detectors in locations of high risk of exposure along with self containing breathing apparatus.

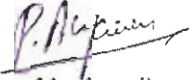
- xv. To prevent well blowouts during drilling operations, Blow Out Preventor (BOP) system shall be installed. Blow Out Prevention measures during drilling shall focus on maintaining well bore hydrostatic pressure by proper pre-well planning and drilling fluid logging etc.
- xvi. The company shall take measures after completion of drilling process by well plugging and secured enclosures, decommissioning of rig upon abandonment of the well and drilling site shall be restored to near original condition. In the event that no economic quantity of hydrocarbon is found a full abandonment plan shall be implemented for the drilling site in accordance with the applicable Indian Petroleum Regulations.
- xvii. Occupational health surveillance of the workers shall be carried out as per the prevailing Acts and Rules.

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 emissions of (RSPM, SPM, SO₂, NO_x, HC & VOC) from DG Set and from flare stack shall conform to the standards prescribed by the SPCB. Regular monitoring of Ambient Air for HC and VOC shall be carried out as per CPCB guidelines. Stack height attached to DG sets shall be in-conformance with the environment protection acts and rules.
- iv. 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.
- v. The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management and Handling) Rules, 1989/ 2003 wherever applicable. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.

- vi. The overall noise levels in and around the plant area shall be kept well within the standards 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).
 - vii. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
 - viii. 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.
 - ix. 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.
 - x. 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.
 - xi. 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. Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.

9. The above conditions will be enforced, inter alia under the provisions of the Water(Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 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