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File No- J-11011/177/2007-1A II (I)

Date: 8th August 2007

To,

M/s Oil and Natural Gas Corporation Ltd.
Office of the Head Assam Renewal Project
Assam Asset, Nazira
District Sibsagar-
Assam
Fax: 03772- 252089

Subject: Assam Renewal Project of Expansion of ONGC Oil Field in Sibsagar and Jorhat Districts, Assam by M/s ONGC - Environmental Clearance regarding.

Sir,

Kindly refer to your application No. ES/AA/E&P/ARP/ENV.C.L./06-07 dated 26th March 2007 regarding the subject mentioned above.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is to revamp, upgrade, modernize, install real time process equipment with modular concept and resort to DCS/PC-PLC centralized control system at Lakwa, Lakhmani, Rudrasagar, Geleki and Moran in Sibsagar District and Koraghat, Borohalla and Jorhat CTF in the District of Jorhat in Assam. The existing facility is 20 years old and needs revamping to sustain production. The mining leases are valid from 28.09.2008 to 16.06.2018 for various fields. The cost of the project is Rs. 2230.15 Crores and completion time will be 36 months. 1446 km of pipelines in various fields will be replaced. The capacity of group gathering stations will decrease from 20,900 m³/d to 18,400 m³/d. These arrangements will help continue operations for another 25 years.

3. The project activity is listed at 1(b) and of 'A' category in the Schedule of EIA Notification, 2006. The Project was considered as per Para 2.2.1 (i) of the Interim Guidelines Dated 13th October 2006 issued by the Ministry. The information submitted was adequate and preparation of EIA/EMP report and Public Hearing have been dispensed with as per Para 7 (ii) of EIA Notification dated 14th September 2006.

4. Based on the information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006 subject to the compliance of the following Specific and General conditions:

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67-ARP
no 11
12/18/67

जहाँ है हरियाली ।
 वहाँ है सुशहाली ।।

11/21/10
 DGM/NO. EXP

PARYAVARAN BHAWAN, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - 110 003
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003

A. SPECIFIC CONDITIONS

- ss
- (i) The company shall comply with the guidelines for disposal of solid wastes, drill cuttings and drilling fluids for On-shore drilling operation notified vide GSR 546 (E) dated 30th August, 2005.
 - (ii) The design, material of construction, assembly, inspection, testing and safety aspect of operation and maintenance of pipeline and transportation of oil/gas shall be governed by ASME/ANSE B 31.8/ B 31.4 and OESD standard 141.
 - (iii) M/s ONGC shall install SCADA systems for safe operation of pipeline and Leak Detection System. Internal pigging facility shall be provided to monitor internal corrosion, coating and impressed current, cathodic protection system should be provided to prevent external corrosion.
 - (iv) Forestry clearance under the Forests (Conservation) Act shall be obtained, if the pipeline passes through the forest area.
 - (v) The capacity of central tank farm, HP gas Plant and CPP shall remain unchanged.
 - (vi) All previous conditions of environment clearance, NOC and Consents from the SPCB will remain unaltered.
 - (vii) Quantities of storage and transportation of Chemicals and Additives required for operation will be handled as per MSIHC Rules, 1989 and transported as per MVA, 1989.
 - (viii) Drilling and operations shall be carried out strictly as per the prevailing petroleum industry norms in E&P industry and the prescribed environmental standards and guidelines shall be followed.
 - (ix) The emissions of (RSPM, SPM, SO₂, NO_x, CO, HC and VOC) from DG set and from flare stack shall conform to the standards prescribed by the concerned State Pollution Control Board. All the measures detailed in the EMP shall be taken to control the point/stack and fugitive gaseous emissions and other discharges from the proposed activity.
 - (x) Regular monitoring of ambient air for HC and VOC shall be carried out as per CPCB guidelines.
 - (xi) Stack height attached to DG sets shall be in conformance with the Environment Protection Act & Rules.

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- (xii) A flare stack shall be provided as per the Oil Mines Regulations, 1984 & the flare-line shall terminate with a vertical rise of at least 9 m or greater.
- (xiii) Noise levels will be within 70 dBA at the boundary of the well site. Noise reducing technologies in the equipment including DG Sets with acoustic enclosures shall be provided.
- (xiv) The solid waste generated from the operations shall be disposed off in a secured landfill created at the site with the authorization from the State Pollution Control Board. The design of SLF shall be approved by SPCB. Oily sludge will be disposed at a TSDF having an authorised incineration facilities. Adequate arrangement for management and handling of solid & hazardous waste shall be done. The recyclable waste (Oily sludge) & spent Oil shall be disposed to the Authorized recyclers nominated by GPCB.
- (xv) Water injection from the expansion project shall not exceed 16,750 m³/d. Waste water generation shall not exceed 13,900 m³/d. Waste water shall be treated at the site as per the prescribed norms of SPCB.
- (xvi) Sewage disposal shall be in septic tank specially constructed at drilling site.
- (xvii) Established well control techniques & 3 level barriers for blow-out preventers will be installed at site.
- (xviii) Occupational Health Surveillance of the workers shall be carried out as per the prevailing Acts and Rules.
- (xix) All safety precautions shall be taken to replace the pipelines.
- (xx) The Company shall implement the recommendations/commitments made during the presentation to the Ministry.
- (xxi) The Company will undertake all relevant measures, for improving the Socio-economic conditions of the surrounding areas.
- (xxii) Closure plan for restoring the area may be submitted to the Ministry once the Hydrocarbon reserves are exhausted. The plan may be submitted within 30 days of the issue of Clearance letter.
- (xxiii) Risk Assessment Report shall be prepared and submitted to the Ministry.

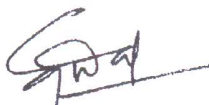


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B. GENERAL CONDITIONS

- i. The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board (SPCB) and the State Government.
- ii. No further expansion or modification in the project shall be carried without prior approval of the Ministry of Environment and Forests. In case of deviations or alternations in the project proposal from those submitted to the Ministry for clearance, a fresh reference shall be made to the Ministry.
- iii. At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system, the respective well site should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved. Provision of adequate height of stack attached to DG sets & flare is to be done.
- iv. Wastewater shall be properly collected and treated so as to conform to the standards prescribed under EP Act & Rules and mentioned in the Consents provided by the relevant SPCB.
- v. The overall noise levels in and around the premises shall be limited within the prescribed standards (75 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the expansion project, if required. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.
- vii. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.
- viii. The project authorities will provide adequate funds as non-recurring and recurring expenditure 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 should not be diverted for any other purposes.

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- ix. The stipulated conditions will be monitored by the concerned Regional Office of this Ministry /Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly. It will also be displayed on the Website of the Company.
 - x. The Project Proponent should 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 of Environment and Forests at <http://www.envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the concerned Regional office of this Ministry.
 - xi. Proper house keeping and adequate occupational health programs shall be taken up. Sufficient preventive measures shall be adopted to avoid direct exposure to emission.
 - xii. A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.
5. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
6. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.
7. 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, the Public Liability Insurance Act, 1991, Hazardous Waste (Management & Handling) Rules, 1989 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules.


(Sanchita Jindal)
Additional Director

Copy to :

1. The Secretary, Department of Environment, Science & Technology, Assam Secretariat, Government of Assam, Guwahati- 781 006.

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2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (NEZ), Upland Road, Laitumkhrah, Shillong : 793 003, Meghalaya.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Assam State Pollution Control Board, Bamunimaidan, Guwahati- 781 021, Assam.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

(Sanchita Jindal)
Additional Director