

**No. J-11011/92/2003 – IA II (I)**  
**Government of India**  
**Ministry of Environment & Forests**

**E mail: plahujarai@yahoo.com**

**Paryavaran Bhawan,  
CGO Complex, Lodi Road,  
New Delhi – 110 003  
Tel No. 2436 3973**

**Dated the February 13, 2004**

**To**

**The Senior General Manager(Refinery)  
M/s Numaligarh Refinery Limited  
Refinery Complex, Numaligarh  
Dist. Golaghat, Assam-785699**

**Subject: Euro-III Motor Sprit Project at Numaligarh Refinery Ltd in district  
Golaghat, Assam - environmental clearance reg.**

**Sir,**

This has reference to your letter No. NRL/PROJ/1B/5.01 dated 11<sup>th</sup> June, 2003 along with filled-in questionnaire, EIA /EMP report, risk analysis report, CD containing all the above documents and subsequent information furnished by you vide your letters dated 20<sup>th</sup> August, 2003, 24<sup>th</sup> September, 2003 and 11<sup>th</sup> November, 2003 on the above-mentioned project. The Ministry of Environment and Forests has examined your application. It is observed that the proposal envisages setting up of facilities for MS Quality Improvement (225TMTPA) within Numaligarh refinery complex. It is also proposed to produce 21,160 TPA of LPG, 1464 TPA of hydrogen, 45,616 TPA of hydrotreated naphtha and 17020 TPA of fuel gas as by-products. Land area required for the Project is 1.267 ha. No land acquisition and displacement of people is involved. Water requirement of 1200 m<sup>3</sup>/d would be met from the River Dhansiri. Permission to draw water from the Surface Irrigation Department has been obtained on 21<sup>st</sup> July, 1993. About 0.33TPM of spent catalyst will be generated and disposed off in the secured landfill site designed with leachate collection system. NOC from the Assam Pollution Control Board has been obtained on 22<sup>nd</sup> September, 2003. The public hearing panel has considered the proposal in its meeting held on 31<sup>st</sup> July, 2003. Estimated cost of MS Quality Improvement Project (MSQI) is Rs. 250 crores.

2.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27<sup>th</sup> January, 1994 as amended subsequently subject to strict compliance of the following specific and general conditions.

**A. SPECIFIC CONDITIONS:**

- i. The company shall ensure strict implementation / compliance of the terms and conditions mentioned vide Ministry's letter No. J-11011/16/90-IA.II dated 31.05.1991.



- ii. The company shall ensure that the total sulphur emission from the Assam refinery (including MS Quality Improvement Project) shall not exceed 128 Kg/hr (256kg as SO<sub>2</sub>). M/s NRL should maintain regular record of sulphur balance in the refinery. Off gases from the proposed unit should be treated in amine absorption and regeneration unit meant for H<sub>2</sub>S removal for desulphurization of off gases. Performance evaluation of sulphur recovery block should be done regularly. Data on VOC should be monitored and submitted to the Ministry. The continuous emission monitoring systems for Sox and NO<sub>x</sub> in the major stacks with proper calibration facilities should be installed. The low NO<sub>x</sub> burners should be installed in all the furnaces.
- iii. Additional water requirement shall not exceed 1200m<sup>3</sup>/hr. The total quantity of effluent generation should not exceed 3830m<sup>3</sup>/d as indicated in the EMP of which (3530 m<sup>3</sup>/d from the existing and 300m<sup>3</sup>/d from the proposed unit). Treated effluent should be recycled and rest should be discharged after primary, secondary and tertiary treatment into the Dhansiri river through 11km long pipeline. The treated effluent should comply with the prescribed standards.
- iv. As reflected in the EIA /EMP, the spent catalyst (0.33TPM) along with small quantity of oily and chemical sludge should be disposed off in secured landfill site within the plant premises. The leachate from the landfill site should be sent back to the effluent treatment plant. The ground water quality around the secured landfill site should be monitored regularly and data submitted to the Ministry /CPCB/SPCB. The biological sludge generated from the ETP should be used as manure/fertilizer for the green belt.
- v. Oil spill response facilities should be in place, in accordance with OISD guidelines with regard to the likely risks associated with transportation of finished products. All recommendations made in the risk analysis report should be complied with during design, construction and operation stages to contain the risk within the plant boundary.
- vi. Green belt of adequate width and density as per the CPCB guidelines should be provided to mitigate the effects of fugitive emission all around the plant in consultation with the local DFO. The bio-sludge should be used as manure in the green belt development.
- vii. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act and the West Bengal Factories Rules.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the Assam Pollution Control Board and the State Government.
- ii. No further expansion or modernization in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- iii. The Company shall implement all recommendations made in the EMP and risk Analysis reports.



- iv. At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.
  - v. The overall noise levels in and around the plant area should 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 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 rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in 1994 and 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.
  - vii. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. 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 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 should not be diverted for any other purposes.
  - ix. The stipulated conditions will be monitored by the Regional of this Ministry at Shillong/Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data should be submitted to them regularly.
  - 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://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 Regional office.
  - xi. The Project Authorities should 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.
- 20.10.2003      21.11.2002      Project approval
- 3.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

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



5.0. 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 Waste (Management and Handling) Rules, 2000 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

*P. Ahujara*

(Dr. P. L. Ahujarai)  
Addl. Director

**Copy to:-**

1. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Assam Pollution Control Board, Guwahati-781021, Assam, India.
3. Chief Conservator of Forests, Regional Office (NEZ), Upland Road, Laitumkhrach, Shillong - 793 003
4. The Commissioner, Secretary, Science and Technology and Environment Department, Assam Civil Secretariat, Dispur, Gauhati-6
5. JS(CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Director, Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.

(Dr. P. L. Ahujarai)  
Addl. Director