

→ Vm - Jaipur

No.J.11011/ 93/2005-IA II(I)
Government of India
Ministry of Environment & Forests
I.A. Division

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Telefax: 24363973
Paryavaran Bhawan,
C.G.O. Complex, Lodi Road,
New Delhi - 110 003
Dated the 20th June, 2005

To

The Sr. Manager - Project
MDPL-Project
M/s Hindustan Petroleum Corporation Ltd.,
UCO Bank Building,
Sansad Marg, Post Box No. 255
New Delhi - 110 001. (Fax: 2371 2380)

Sub: Laying of Multi-product pipeline from Mundra to Delhi by M/s Hindustan Petroleum Corporation Ltd from Jetty (at Adani port) to Mundra Terminal.

Sir,

This has reference to your letter no. MDPL/MK dated 10th November, 2004 on the above subject along with EMP/risk assessment reports and questionnaire regarding application for 1036.4 km long multiproduct cross country pipeline from Mundra to Delhi and subsequent communications dated 11th January, 2005, 19th and 29th April, 2005.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposed Mundra Bhadurgarh main pipeline will have six pumping stations and Bhadurgarh Tikrikalan spur pipelines (3 nos.) for 12 kms each with one pumping station. The pipeline shall pass through 4 states namely, Gujarat, Rajasthan, Haryana and Delhi covering 12 districts i.e 3 districts in Gujarat (Kutch, Patan and Banaskantha), 5 districts in Rajasthan (Sirohi, Pali, Ajmer, Jaipur and Alwar) 3 districts in Haryana (Gurgaon, Rewari and Jhajjar) and 1 district in Delhi. The products to be transported from the pipeline are High Speed Diesel / Ultra low High Speed Diesel / Motor Spirit / Ultra Low Motor Spirit / Superior Kerosene Oil. The Diameter of the pipeline will be 18" / 16" / 8" The throughput of the pipeline will be 5.8 MMTPA (5.0 MMTPA in phase I and 5.8 MMTPA in phase II). The pipeline will pass through 14719-m length of forestland in Gujarat and Rajasthan of which 12,194 m is reserve forest and 2,525m is unclassed forest. About 8 km length of the pipeline from Mundra jetty to storage area falls in CRZ. The pipeline which passes through the CRZ area starts from Adani port jetty located at Navinal Island and passes westward besides the existing railway line along the shoreline. Cost of the project is Rs. 1534.84 crore.

3.0. Public hearing meetings have been held for all the districts. Public hearing panels have considered the project in the meetings held on 2.12.2004 in Kutch, on 7.10.2004 in Patan, on 14.10.2004 in Banaskantha, on 11.1.2005 in Sirohi, on 3.1.2005 in Pali, on 8.1.2005 in Ajmer, on 10.1.2005 in Jaipur, on 18.1.2005 in Alwar, on 26.10.2004 in Gurgaon, on 27.10.2004 in Rewari and Jhajjar and on 6.12.2004 in Delhi. Rajasthan State Pollution Control Board has granted NOC on 21.5.2005. Gujarat State Pollution Control Board has granted NOC on 11.3.2005. Haryana State Pollution Control Board has granted NOC on 19.11.2004. Delhi Pollution Control Committee has granted NOC on 25.1.2005.

4.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance to the following Specific and General Conditions:

A. Specific Conditions

- i. The design, material of construction, assembly, inspection, testing and safety aspects of operation and maintenance of pipeline and transporting the natural gas shall be governed by ASME/ANSI B 31.8/B31.4 and OISD standard 141.
- ii. Annual safety audit shall 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.
- iii. The construction of pipeline particularly at the river and stream crossing shall be done during dry seasons to avoid disturbance of breeding seasons and soil erosion. The riverbed, embankments and / dykes shall be restored adequately after installation of crossings.
- iv. Pipeline wall thickness and minimum depth of burial at river crossings and casings at rails, major road crossings shall be in conformity with ANSI/ASME requirements.
- v. The company shall follow horizontal drilling technique for laying of pipeline while passing through major irrigation canal and perennial rivers.
- vi. The project authorities shall plant a minimum of 10 trees for every tree cut along the pipeline route in consultation with the local DFO (s). This will be in addition to the compensatory afforestation. The company shall develop a social forestry programme to benefit the project affected local people in consultation with the local DFO/village panchayat / NGO. Approval under Forest (Conservation) Act, 1980 shall also be obtained for forest area falling under the pipeline route before initiating construction of the pipeline in the forest area.
- vii. The project authorities shall install SCADA system with dedicated optical fibre based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive installations shall be provided to prevent the amount of gas /hydrocarbons going to the atmosphere in the event of pipeline failure. Intelligent pigging facility shall be provided for the entire pipeline system for internal corrosion monitoring. Coating and impressed current cathodic protection system should be provided to prevent external corrosion.

- viii. 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 shall be carried out at regular intervals to ensure the adequacy of cathodic protection system.
- ix. 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.
- x. The codes IS : 1893-2003 and IS 4326 for earth quake design shall be followed for the construction of the pipeline. As per the recommendations made by Engineer India Ltd., in the Seismic study of the proposed pipeline, the pipeline trench shall not be filled with large stones or boulders during construction / laying of the pipeline. The dugout soil in trench shall be replaced with loosely compacted cohesion less soil (sand) having friction angle less than 25 degrees in case dug out soil comes out to be clayey nature. The extent of replacing of soil should be 1 km on either side of the each of the fault locations.
- xi. Green belt of adequate width and density should be provided to mitigate the effects of fugitive emission all around the intermediate pumping stations. A minimum of 25% of the total land acquired shall be developed as green belt in consultation with the local DFO.
- xii. While laying the pipeline in CRZ, no mangroves shall be destroyed and shall not affect the fishermen activities. Further no constructions other than the pipeline facilities that are essential for the pipeline will be carried out. Sand dunes shall not be disturbed or altered during construction activity.
- xiii. For construction activity, provision of construction camps facilities outside CRZ area with proper sanitation, drinking water supply and primary health facilities to the workers and other construction personnel shall be made.
- xiv. M/s HPCL shall seek permission from the Chief Wild Life Warden , Govt. Of Gujarat, since Rann of Kutch and Balram Wildlife Sanctuary are located at distance of 1 km. on either side of ROW.

B. General Conditions:

- i. The project authority must adhere to the stipulations made by Gujarat, Rajasthan and Haryana State Pollution Control Boards and Delhi Pollution Control Committee.
- ii. There will be no change in the pipeline route, design capacity without the prior approval of this Ministry. While laying the pipeline, OISD standards with regard to distance etc; from private buildings, industrial buildings or placed or habitation etc should be followed.
- iii. During the project construction phase, adequate care must be exercised for protection to public life, wildlife, forest power line, buildings etc in the vicinity of pipeline and in consonance with local government regulations.

- iv. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended in 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.
- v. Detailed risk analysis of the pipeline and associated facilities must be done once the engineering design and layout is frozen. Based on this, on site and off-site emergency preparedness plan must be prepared. Approval from the nodal agency must be obtained before commissioning the project.
- vi. Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc should be ensured for construction workers during the construction phase so as to avoid felling of trees and pollution of water and the surroundings.
- vii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the Environmental Management Plan and risk analysis report.
- viii. The project proponent should have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education of health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.
- ix. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.
- x. The project authorities will provide requisite funds to implement the conditions stipulated by the Ministry of Environment & 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 purpose.
- xi. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's regional offices at Bangalore/Bhopal and Chandigarh State Pollution Control Boards /Delhi Pollution Control Committee / Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.
- xii. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions should be set up under the control of Senior Executive.
- xiii. 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 at Bhopal / Bangalore and Chandigarh.
- xiv. 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.

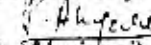
5.0 The Ministry or any competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located at Bhopal.

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

7.0 Any other conditions or alteration in the above conditions will have to be implemented by the project authorities in a time bound manner.

8.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

Yours faithfully,


(Dr. P. L. Ahujara)
Director

Copy to: -

1. Secretary, Ministry of Petroleum and Natural Gas, Shastri Bhavan, New Delhi.
2. Secretary, Department of Environment & Forests, Govt. of Gujarat.
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5, Arera Colony, Bhopal - 462 016.
4. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
5. Chairman Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhi Nagar, -382043.
6. The Secretary (Environment) Haryana Civil Secretariat, Government of Haryana, Secretariat, Chandigarh.
7. Chairman, Haryana Pollution Control Board, C-11, Sector-6, Panchkula
8. Conservator of Forests, Regional Office (NZ), Bays No.24-25, Sector 31-A, Dakshin Marg, Chandigarh-160047.
9. The Chief Conservator of Forests, Regional Office(Central Region), B-1/72, Sector K, Aliganj, Lucknow-226020
10. Secretary, Department of Environment and Forests, Government of Rajasthan, Jaipur.
11. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur.
12. Secretary, (Environment), Department of Environment, Government of Delhi. Delhi Secretariat, IP Estate, New Delhi 110002.
13. The Chairman, Delhi Pollution Control Committee, 4th Floor, ISBT Building, K. Gate Delhi-6.
14. Secretary, (Environment), Department of Environment, Govt. of Delhi.
15. JS(CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
16. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
17. Guard File.
18. Monitoring File.
19. Record File.

(Dr. P. L. Ahujara)
Director