

No.J.11011/234/2005- IA (II) - I
Government of India
Ministry of Environment & Forests
I. A. Division

E mail: plahujara@yahoo.com
Paryavaran Bhavan, CGO Complex,
Lodi Road, New Delhi-110003
Telephone No.24363973
Dated : 25th August, 2005

To

The Executive Director (Projects),
M/s GAIL (India) Limited
16, Bhikaji Cama Place,
R.K. Puram,
New Delhi-110066

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Sub: Gas pipeline from Vijapur-Kota pipeline by M/s Gas Authority of India Limited -
reg. Environmental clearance.

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Sir,

This has reference to your letter no. GAIL/ND/Proj/ED/33b/2005 dated 30th May, 2005 along with EMP/risk assessment reports, questionnaire and CD and subsequent communications dated 4th July, 2005 regarding environmental clearance of Vijapur-Kota pipeline (VKL) project for transportation of regasified liquefied natural gas (RLNG) to the consumers viz: Chambal Fertilisers & Chemicals (CFCL), Sriram Fertilisers & Chemicals (SFCL) and Chambal Power.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the width and length of the pipeline shall be 18" dia x 139.5 km from Vijapur to Gadepan, 16" x 38.1 km from Gadepan to Keshoraj Tap-off, and spurlines 8" x 9 km from Samcore to SFCL, 8" x 6 km from Keshoraj Tap-off to Chambal Power. The present capacity requirement of the pipeline is 3.47 MMSCMD and in future will extend up to 10 MMSCMD. The pipeline shall be designed for 92 kg/cm². The pipeline will pass through four districts namely Guna in Madhya Pradesh, Baran, Kota and Bundl in Rajasthan. The pipeline route does not involve diversion of forest land. No ecologically sensitive area falls enroute the pipeline. The crossing of pipeline through the major rivers will be by using trenchless technology (HDD). Cost of the project is Rs.299.84 crores.

3.0 Since the pipeline will pass through two States in four districts viz. Guna (in MP) and Baran, Kota, Bundl (in Rajasthan), the respective public hearing panels have considered the project in the public hearing meetings held on 14.3.05, 23.4.05 21.6.05 and 28.3.05 respectively. NOCs from the Madhya Pradesh Pollution Control Board and Rajasthan Pollution Control Board has been obtained on 17.5.05 and 16.7.05 respectively.

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.

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- ii. 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.
- 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 should be in conformity with ANSI/ASME requirements.
- v. The company shall follow horizontal drilling technique for laying of pipeline while passing through major 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).
- 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 should be provided to prevent the amount of gas going to the atmosphere in the event of pipeline failure. Intelligent pigging facility should 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 should 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. 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 should be developed as green belt in consultation with the local DFO.

B. General Conditions:

- i. The project authority must adhere to the stipulations made by Madhya Pradesh and Rajasthan State Pollution Control Boards and State Governments.
- 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 places of 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 shall 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 shall 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 shall provide requisite funds both recurring and non-recurring 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 Bhopal and Lucknow/State Pollution Control Boards/Central Pollution Control Board. A six monthly compliance status report shall be submitted to monitoring agencies.
- xii. A separate environmental management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of Senior Executive.

- xiii. 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 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 offices at Bhopal and Lucknow.
- 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 and Lucknow.
- 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. Ahuja)
Director

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. The Chairman, Uttar Pradesh State Pollution Control Board, 111 Floor, PICUP Bhavan, Vibhuti Khand, Lucknow-226020.
3. The Chief Conservator of Forests, Regional Office(Central Region), B-1/72, Sector K, Aliganj, Lucknow-226020
4. Secretary, State Deptt. of Environment, Government of Uttar Pradesh , Room NO 13, New Buildings, Vidhan Bhavan, Lucknow -226001 , UP.
5. The Principal Secretary, Department of Housing and Environment, Govt. of Madhya Pradesh, Vallabh Bhavan, Bhopal-462001 Madhya Pradesh.
6. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, Link Road No.3, E - 5 , Arera Colony, Bhopal - 462 016.
7. Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
8. Chairman, Madhya Pradesh Pollution control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016, Madhya Pradesh.
9. JS(CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi. - 110003.
10. Monitoring Cell , Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
11. Guard File.
12. Monitoring File.
13. Record File.


(Dr. P. L. Ahujara)
Director