

F. No. J-11011/538/2010- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

ParyavaranBhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

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Dated: 25th July, 2012

To,

Shri M.V. Iyer
Dy.General Manager (Projects)
M/s GAIL (India) Limited
16, Bhikaji Cama Place, R.K.Puram
New Delhi.

E-mail: mviyer@gai.co.in / scray@gail.co.in ; Fax No. : 011-26185941.

Subject: Kota-Bhilwara Natural Gas Pipeline (16" x 143.072 km) in Rajasthan by M/s GAIL (India) Limited – Environmental clearance reg.

Ref. : Your letter No. GAIL/ND/PROF/KBPL/MOEF/2010-11 dated 19th January, 2012.

Sir,

Kindly refer your letter dated 19th January, 2012 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and Public hearing report on the above mentioned subject.

2.0 The Ministry of Environment & Forests has examined your application. It is noted that proposal is for laying of Kota-Bhilwara Natural Gas Pipeline (16" x 143.072 km) in Rajasthan by M/s GAIL (India) Limited. Design capacity of the pipeline is 2.00 MMSCMD. The right of user (ROU) will be 20 m wide and pass through 60 villages in District Kota, Bundi and Bhilwara in Rajasthan. The proposed pipeline corridor will pass through National Gharyal Wildlife Sanctuary (Chambal Riverine Sanctuary) at single location at a chainage of 26.167 Km in District Kota, Rajasthan. It is noted that Horizontal Directional Drilling (HDD) technique will be used for crossing the sanctuary area (2400 m) without disturbing the wildlife of the area. The pipeline route is also passing through reserved and protected forests in Kota, Bundi and Bhilwara districts of Rajasthan. Out of entire 143.072 Km length of the pipeline route, 59.539 Km is passed through reserved and protected forests. The proposed route will cross 3 B.G. railway lines, National Highways (5 Nos.), State Highways (2 Nos.) major district roads (10 nos.), Rivers (6 Nos.), Canals (2 Nos.). Total cost of the project is Rs. 209.530 Crore. Followings are the pipeline configuration:

1. Tap off point: at existing GAIL substation at Naya Novara, Kota District.
2. Spurline: 16" Diameter X 143 Km (From Kota to Bhilwara).
3. Terminal: Receiving Terminal at Naya Semaliya along the NH 79 in Bhilwara District.
4. 4 SV (Isolation valve stations) and 1 Intermediate Pigging Station near Bijoliya.

The length of pipeline as per detailed route survey is as follows:

S.N.	Section	District	Length (Km)
1	Km 0 + 000 to Km 28 + 379	Kota	28.379
2	Km 28 + 379 to Km 57 + 114	Bundi	28.734
3	Km 57 + 114 to Km 143 + 071	Bhilwara	85.958
		Total Length	143.072

3.0 The entire cross country pipeline will be monitored and controlled by Supervising Control & Data Acquisition (SCADA). The pipeline will be protected against external corrosion by three layer polyethylene (PE) coating for cross country pipeline and three layered polypropylene and additionally by impressed current cathodic protection system. Excavated earth will be restored properly and backfilled.

4.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 20th and 33rd meetings held during 3rd-4th March, 2011 and 21st-22nd March, 2012 respectively.

5.0 All oil & gas transportation pipeline (crude and refinery/ petrochemical products), passing through national parks/sanctuaries/coral reefs/ecologically sensitive areas including LNG Terminal are listed at S.N.6 (a) under category 'A' and appraised at Central level.

6.0 Public hearing was conducted on 14th December, 2011 for Bhilwara, 17th October, 2011 for Kota and 20th October, 2011 for Bundi.

7.0 The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS :

- i. Prior clearance shall be from the Standing Committee of the National Board for Wildlife regarding Chambal Wildlife Sanctuary, Rajasthan. All the recommendations stipulated in the clearance from the Standing Committee of the National Board for Wildlife shall be implemented.
- ii. Permission shall be obtained from the State Forest Department regarding the impact of the proposed laying of pipeline on the surrounding reserve forests.
- iii. Forest clearance shall be obtained for pipeline passing through forest land.
- iv. The project authority i.e. M/s GAIL shall ensure restoration of the Right of Way to preconstruction level as soon as construction activity completed. To ensure prevention of soil erosion, backfilled areas should be properly compacted.
- v. The company shall monitor ambient air quality in respect of PM₁₀, SO₂, NO_x & HC and displayed periodically at the company's web site.
- vi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- vii. 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.
- viii. 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.
- ix. Work shall be done in the Chambal Wildlife Sanctuary during day time only.

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- x. 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.
- xi. 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.
- xii. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- xiii. 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 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.
- xiv. 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.
- xv. The fire water facilities at the terminal must be designed as per OISD-117 guidelines. However, for fighting prolonged fires, the company shall firm up a plan for assured water supply from nearby ground water source/ surface water source. This must be complied before commissioning the project.
- xvi. All the recommendations mentioned in the risk assessment report shall be implemented.
- xvii. All the issues raised and commitment made during the public hearing/consultation meeting held on 14th December, 2011 for Bhilwara, 17th October, 2011 for Kota and 20th October, 2011 for Bundi respectively shall be satisfactorily implemented. A separate budgetary provision should be kept.
- xviii. Good sanitation facility shall be provided during construction phase. Domestic sewage shall be disposed off through septic tank/ soak pit.
- xix. Company shall prepare Corporate Environment Policy as per the Ministry's O.M. No. J-11013/41/2006-IA.II(I) dated 26th April, 2011.
- xx. Company shall prepare operating manual in respect of all activities. It shall cover all safety & environment related issues and system. Measures to be taken for protection. One set of environmental manual shall be made available at the pipeline project site. Awareness shall be created at each level of the management. All the schedules and results of environmental monitoring shall be available at the project site office.

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B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board (RSPCB), State Government and any other statutory authority.
- 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 project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
- iv. 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).
- v. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, ZilaParishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- vi. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the RSPCB. The Regional Office of this Ministry / CPCB / RSPCB shall monitor the stipulated conditions.
- vii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- viii. 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 RSPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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 shall be forwarded to the Regional office.
- ix. 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.

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

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

10.0 The above conditions shall 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, Handling and Trans-Boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules


(Lalit Bokolia)
Joint Director

Copy to :-

1. Secretary, Department of Environment and Forests, Government of Rajasthan, Jaipur, Rajasthan.
2. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -110032.
3. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area, Jhalana, Doongri, Jaipur, Rajasthan.
4. Chief Conservator of Forests (Central), Ministry of Environment and Forests, Region Office (Central), Kendriya Bhawan, 5th Floor, Sector-H, Aliganj, Lucknow - 226 024, U.P.
5. Joint Secretary, IA-II, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
7. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
8. Guard File/Monitoring File/Record File.


(Lalit Bokolia)
Joint Director