

**F. No. J-11011/18/2016-IA.II (I)**  
**Government of India**  
**Ministry of Environment, Forest and Climate Change**  
**(Impact Assessment Division)**

**Indira Paryavaran Bhawan**  
**Aliganj, Jor Bagh Road,**  
**New Delhi -110 003**

**Telefax: 011-24695365**  
**E-mail: [yogendra78@nic.in](mailto:yogendra78@nic.in)**

Dated: 07<sup>th</sup> June, 2017

To,

**The Manager Projects**  
**(Shri Tushar Kant Jha)**  
**M/s Hindustan Petroleum Corporation Ltd (HPCL)**  
**SCOPE Minar, 8<sup>th</sup> Floor, North Tower**  
**Laxmi Nagar, Delhi - 110 092**

**Sub: Expansion of system capacity of Mundra Delhi Pipeline (5 MMTPA to 8 MMTPA) and extension pipeline (280 KM) from Palanpur to proposed marketing Terminal near Vadodara by M/s Hindustan Petroleum Corporation Ltd (HPCL) - Environmental Clearance - reg.**

**Ref: Online Proposal No. IA/GJ/IND2/35453/2015 dated 25<sup>th</sup> February, 2017.**

Sir,

This has reference to your online proposal no. IA/GJ/IND2/35453/2015 dated 25<sup>th</sup> February, 2017, along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Expansion of system capacity of Mundra Delhi Pipeline (5 MMTPA to 8 MMTPA) and extension pipeline (280 KM) from Palanpur to proposed marketing Terminal near Vadodara by M/s Hindustan Petroleum Corporation Ltd (HPCL). As informed and as per the documents submitted by the Project Proponent (PP), a pipeline is proposed to be laid to transfer MS, HSD and SKO from the existing Tap off location, at Palanpur marketing and pumping terminal of Mundra-Delhi Pipeline (MDPL) in Gujarat up to Vadodara in Gujarat. The products shall be made available to this pipeline from existing MDPL. Expansion of the system capacity of MDPL from existing 5.0 MMTPA to 8.0 MMTPA by way of, installation of additional pump facilities at Bhachau and Pindwara and laying 280 Kms extension spur pipeline from Palanpur station to HPCL proposed Marketing terminal Near Vadodara. The cost of the project is ₹ 1879 crores.

3. The PP also proposed for additional facilities in the proposed pipeline, i.e. Additional pumps (2 working + 1 standby) will be installed at the existing Palanpur station on existing MDPL pipeline. Also based on new batch sizes, a new receipt station/marketing terminal is proposed at Vadodara with Rail/Road loading facilities. An additional pigging station (IPS-01) is proposed in the proposed PVPL pipeline at Village-Ghadkan, Taluka-Prantij, District - Sabar kantha in the state of



Gujarat. The land requirements for the proposed project are: Bachau Pumping Station (11 acres), Pindwara Pumping Station (11 acres), Intermediate Pigging station at Ghadkan, Prantis, Gandhinagar (12 acres) Vadodara Marketing Terminal (159 Acres), Palanpur pump station augmentation (land inside the existing Palanpur station-61 acres), ROU acquisition for Palanpur-Vadodara extension pipeline (no permanent land acquisition involved) and SV stations enroute Palanpu-Vadodara extension Pipeline (0.6 Acres 5 nos.). In the proposed project, the products to be transported are (i). Euro-IV grade of Motor Spirit (MS), (ii). Euro-IV grade of High Speed Diesel (HSD) and (iii). Superior Kerosene Oil (SKO).

4. The proposed pipeline will originate from Palanpur, and would then follow the ROU of 18 meter corridor to terminate at the Green Filed Marketing Terminal near Vadodara. Starting point of extension spur pipeline will be Palanpur and the terminating point shall be at Vadodara Green Field Marketing Terminal, additional pumping stations are proposed at Bhachau, district Kutch (Gujarat) and Pindwara in district Sirohi (Rajasthan) and the proposed marketing terminal at Vadodara.

5. The Pipeline shall originate from existing MDPL receipt cum pumping station at Palanpur and petroleum products namely MS, HSD & SKO will be pumped from Mundra-Delhi Pipeline into Palanpur-Vadodara Pipeline. For this purpose; 3 nos. mainline pumps at Palanpur dispatch station is envisaged.

6. Tap-off from existing 18" MDPL at Palanpur is taken to mainline pumps after filtering and metering. Basket filters are provided to remove any suspended particles. Flow is measured using mass flow meters which are provided along with flow computers. Density meter is provided downstream of flow meters to measure the density of products and to signal the batch launching.

7. All Oil & gas transportation pipe line (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) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and is appraised at Central Level by Expert Appraisal Committee (EAC).

8. The PP has obtained EC for the existing unit vide letter no. J-11011/93/2005-IA.II (I) dated 20<sup>th</sup> June, 2005. The proposed project is expansion of the existing project and hence the EC is mandatory.

9. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 4<sup>th</sup> and 12<sup>th</sup> meeting held during 11<sup>th</sup> - 12<sup>th</sup> February, 2016 and 23<sup>rd</sup> - 24<sup>th</sup> August, 2016 respectively and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 18<sup>th</sup> October, 2016.

10. The EAC (Industry-2) in its 21<sup>st</sup> meeting held during 27<sup>th</sup> - 29<sup>th</sup> March, 2017 has considered the proposal for environmental clearance (EC). The Project Proponent and the accredited consultant M/s Mantec Consultants Pvt. Ltd., New Delhi gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per the Terms of References (TORs).

11. The public hearing for the project has been exempted as per para 7(ii) of EIA notification, 2006

12. During construction phase, approx. 2 KLD water will be required for the domestic and construction purposes. During operation phase approx. 5 KLD water will be required. The same shall be obtained from bore well.

13. Power requirement at all the stations shall be met through State Electricity Board. Alternatively for the critical loads, lighting, air conditioning etc.; DG sets of required capacity are being installed. For SV/CP stations; solar panels along with grid power synchronization is being installed for taking care of critical loads.

14. The Ambient Air Quality data was collected during October, 2016- December, 2016. The resultant concentrations are within National Ambient Air Quality Standard.

15. The PP has submitted the copy of Certified Compliance Report issued by Ministry's Regional Office vide Ministry's RO vide no. 4-108/2005-RO(WZ)/85-87 dated 15.03.2017.

16. It is reported that the proposal does not attracts the provisions of wildlife (Protection) Act, 1972, Forest (Conservation) Act, 1980 and CRZ Notification, 2011.

17. The EAC, in its 21<sup>st</sup> meeting held during 27<sup>th</sup> - 29<sup>th</sup> March, 2017, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

18. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. Specific Conditions:**

- i. 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.
- ii. The project authority i.e. M/s Hindustan Petroleum Corporation Ltd (HPCL) 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.
- iii. 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.
- iv. 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.
- v. 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.

- vi. 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.
- vii. The company shall follow horizontal drilling technique for laying of pipeline while passing through major rivers.
- viii. The project authorities shall install SCADA system with dedicated optical fiber based telecommunication link for safe operation of pipeline and Leak Detection System. Additional sectionalizing valves in the residential areas and sensitive location shall be provided to prevent the leaking 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 shall be provided to prevent external corrosion.
- ix. 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.
- x. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented. It is necessary that integrated DMP should be in place as the pipeline is passing through four Districts.
- xi. The acoustic chambers/barriers should be provided for individual units wherever feasible in the compressor stations.
- xii. The workers camp should have arrangement for safe drinking water, hygienic kitchen and sanitation facilities. The wastewater should be properly treated before disposal.
- xiii. The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xiv. PP shall spend 2 % of project cost under Enterprises Social Commitment (ESC) activities for Drinking water (RO) to schools, computer facility to Schools/colleges and solar panel to school/college/health centres, in the villages where the pipeline is passing. PP shall also maintain the facilities.

**B. General Conditions:**

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Boards, State Governments and any other statutory authority.
- ii. No further expansion or modifications in the pipeline shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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 locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.

- iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- v. 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- vii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- viii. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
- ix. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- x. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xi. The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.
- xii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.
- xiii. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xiv. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted 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 along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
- xv. 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 SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven

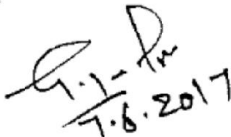
*G. P. Dr.*

- 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 concerned Regional Office of the Ministry.
- xvi. The 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 start of the project.

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


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

21. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
7.6.2017  
**(Yogendra Pal Singh)**  
**Scientist 'D'**

**Copy to:-**

1. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8<sup>th</sup> floor, Sachivalaya, Gandhinagar-382 010, Gujarat.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal - 462 016
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector-10A, Gandhinagar - 382 010, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh, New Delhi - 110 003.
6. Guard File/Monitoring File/Website/Record File.

  
7.6.2017  
**(Yogendra Pal Singh)**  
**Scientist 'D'**