

F.No. 11-05/2018-IA-III  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA.III Section)

Indira Paryavaran Bhawan,  
Jor Bagh Road, New Delhi - 110003  
Dated:06<sup>th</sup> March, 2019

To,

✓ The Chief General Manager (HSE)  
M/s Indian Oil Corporation Ltd.,  
Paradip Refinery Project  
Abhaychandrapur, Jagatsinghpur  
Odisha - 754 141.

**Sub: CRZ Clearance for "laying of Paradip - Hyderabad Petroleum Product Pipeline" - reg.**

Sir,

This has reference to your proposal No. IA/OR/MIS/71841/2017, received in this Ministry for CRZ Clearance in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal has been considered by the Expert Appraisal Committee (EAC)-Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 186<sup>th</sup> meeting held on March 27, 2018. The details of the project, as per the documents submitted and as informed during the aforesaid meeting are as under:

- (i) The project involves laying of 1212 Km length underground pipeline from Paradip Refinery to Hyderabad and would originate from the pumping station at Paradip (Odisha State) and then towards southern direction more or less parallel to existing NH-16 up to proposed Berhampur ToP and further to Vizag ToP (Andhra Pradesh). Thereafter, the pipeline would traverse in South-West direction along NH-16 up to Rajahmundry ToP and further to Vijaywada ToP. From Vijayawada onwards, the pipeline would change direction to North-West following NH-9 for approximately 220 km up to the proposed new Hyderabad ToP (Telangana).
- (ii) The pipeline will be laid along with Optical Fibre Cable for evacuation of white oil products i.e., MS, HSD, SKO and ATF from Paradip Refinery to depots in Odisha, Andhra Pradesh and Telangana.
- (iii) The proposed pipeline will provide connectivity to a new grass root depot at Berhampur in Odisha, and also to Indian Oil's existing depots at Vizag, Rajahmundry and Vijayawada in Andhra Pradesh and Hyderabad in Telangana, along with associated facilities at Paradip refinery and at Rajahmundry and Vijayawada depots.
- (iv) The length of the proposed pipeline is about 330 km in Odisha, 723 Km in Andhra Pradesh and 160 Km in Telangana.



- (v) Santa Creek in Odisha divides Paradip Refinery into two parts i.e north side in which products/intermediate feed storage tanks are found and south side where the major processing units are situated. Thus, for transfer of the process fluids from south side to north side requires to cross the creek which is a tidal influenced water body and coming within CRZ area. The pipeline will be laid in the pipe corridor with the existing bridge.
- (vi) The total length of pipeline in Odisha will be 330 km, out of which pipeline in CRZ area in Odisha will be approximately 2435.19 m as follows: (a) Pipeline in Bridge-1 (one side) comprises of 475.64 m in CRZ-I(A); 611.52 m in CRZ-III and 126.02 m in CRZ-IV (B) (Santa Creek area); and (b) Pipeline in Bridge-2 (another side) comprises of 504.25 m in CRZ-I(A); 601.76 m in CRZ-III and 116 m in CRZ-IV(B) (Santa Creek area).
- (vii) In Andhra Pradesh the total length of the pipeline is about 723 Km, out of which 227.67 meter in CRZ-III and 106.08 meter in CRZ-IV (B) respectively. The pipeline will cross Meghadrigedda Creek
- (viii) The proposed Paradip-Hyderabad pipeline traverses 13 river/creek crossings under the influence of CRZ area. One crossing is coming under CRZ-I A (mangrove) area and all other remaining crossings are coming under CRZ-III & IV B (Santra creek) and the details of pipeline areas passing through the CRZ IA (310.71m in Odisha), CRZ- III (1462.72m in Odisha and AP) and CRZ IVB (1552.78 m Odisha and A.P) areas.
- (ix) The boundary of the Kambalakonda Wildlife Sanctuary in Andhra Pradesh is about 8 kms from the nearest out of pipeline. The Eco sensitive zone of the said sanctuary is 4.33 kms from the boundary of the Kambalakonda Wildlife Sanctuary.
- (x) The Horizontal Directional Drilling (HDD) will be carried out at all major river crossings.
- (xi) CRZ map indicating HTL, LTL demarcation in 1:4000 scale with the proposed pipeline route superimposed on the map has been prepared by IRS, Anna University.
- (xii) No excavation in water bodies and CRZ areas. Crossings will be done through trenchless, Horizontal directional Drilling Methodology to a depth of min. 10-15m below below the deepest point of rivers, creeks and water body.
- (xiii) The total Cost of the project will be Rs 7801 crores.
- (xiv) The pipeline will be laid in agricultural fields at an average depth of 4-5 feet. After laying of the pipeline, the farmers will be able to cultivate the land without any problem.
- (xv) This project is very useful to meet the increasing demands of petroleum products in the state of AP.
- (xvi) Consent to Establish has been obtained from all concerned three states viz. Odisha, Andhra Pradesh and Telangana.
- (xvii) Forest clearances has been obtained.
- (xviii) The water requirement will be 15 KLD approx. Raw Water will be mainly used for Pumping-cum-Delivery station construction works and drinking water facilities to labour while laying of underground pipeline. The ground water will be utilized from existing wells inside IOCL marketing terminals & Refinery area.

- (xix) Power will be utilised from Paradip Captive power plant for Paradip station and for other stations power will be taken from State Electricity Boards.
- (xx) Energy auditing of the stations, VFDs, lower pumping rate to avoid shutdown (at higher rate friction loss increases), LED panels, Solar panels, in stores roof top toughened glass to allow lighting by sunlight, street lights and towers to be operated by solar switch or timer, replacement of engines with motors, use of higher dia. pipes instead of putting up more boosting stations, periodical piggings, use of flow control valves instead of gate/ball valves with partial opening.
- (xxi) The Andhra Pradesh Coastal Management Authority (APCZMA) recommended the project vide letter No. 48/APCZMA/2017 dated 13.11.2017 and Odhisha Coastal Management Authority (OCZMA) recommended the project vide letter No. 13/OCZMA dated 11.01.2018.

3. Based on the information submitted by you as at para no. 2 above and others and presentation made before the EAC (Infrastructure Development, Coastal Regulation Zone, Building / Construction and Miscellaneous projects) in its 186<sup>th</sup> meeting held on March 27, 2018, and in acceptance of the recommendation of the EAC, the Ministry of Environment, Forest and Climate Change hereby accords CRZ Clearance to the above project viz '*laying of Paradip-Hyderabad Petroleum Product Pipeline*' under the provisions of the CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to the compliance of the following specific and general conditions as under:

**PART A – SPECIFIC CONDITIONS:**

- (i) A 2% of the cost of the project shall be apportioned for marine and coastal biodiversity protection and conservation measures, to be spent by the project proponent towards fulfilling its Corporate Environmental Responsibility (CER) during the currency of the project. Proper record and account of measures taken should be maintained and should also be submitted to the CZMA every six months.
- (ii) 'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (iii) Forest clearances in all the three states, shall be first obtained as may be applicable, prior to commencement of laying of pipelines in any forest areas.
- (iv) The pipeline shall strictly conform to norms/regulations specified in Oil Industry Safety Directorate (OISD) as may be applicable.
- (v) An Emergency Response and Disaster Management Plan as per Petroleum and Natural Gas Regulatory Board (PNGRB) shall be in place before commissioning.



- (vi) A leak detection system shall be installed for identification of leakages and it shall be ensured that an inbuilt system of timely addressing mitigative measures is in place.
- (vii) Solid waste shall be collected, treated and disposed in accordance with the Solid Waste Management Rules, 2016.
- (viii) The construction in CRZ areas shall be done strictly in accordance with the provisions of CRZ Notification, 2011 and as amended from time to time.
- (ix) There shall be no dressing or alteration of the sand dunes, natural features including landscape changes for beautification, recreation and other such purpose.
- (x) The project proponent shall ensure that no ground water drawal is carried out within CRZ areas without prior approval of the Central Ground Water Authority.
- (xi) Disposal of muck during construction phase should not create any adverse effect on the neighbouring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.

**PART B - GENERAL CONDITIONS:**

- (i) A copy of the clearance letter shall be uploaded on the websites of the Company/Proponent and concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.
- (ii) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.
- (iii) Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- (iv) Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.
- (v) A six-monthly monitoring report shall need to be submitted by the project proponent to the concerned regional Office of this Ministry regarding the implementation of the stipulated conditions.

- (vi) The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (vii) The above stipulations would be enforced among others 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, the Public Liability (Insurance) Act, 1991, the EIA Notification, 2006 and the CRZ Notification, 2011.
- (viii) Full co-operation shall be extended to the officials from the Regional Office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulated. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.
- (ix) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (x) The Ministry reserves the right to add additional safeguard measures subsequently, if considered necessary, and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental (Protection) Act, 1986, for non compliance.
- (xi) All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponent from the respective competent authorities.
- (xii) The project proponent should advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at <http://www.envfor.nic.in>. The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the concerned Regional Office of this Ministry.

4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.



5. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

6. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

7. The proponent shall upload the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB.

8. The environmental statement for each financial year ending 31<sup>st</sup> 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 along with the status of compliance of clearance conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.

  
**(W. Bharat Singh)**  
Director(CRZ)

*Copy to:*

1. The Secretary, Department of Science & Technology, Orissa Secretariat, Bhubaneswar – 751 001, Orissa.
2. The Member Secretary, Orissa Coastal Zone Management Authority & Principal Secretary, Science, Technology & Environment and Forests Wing, Orissa Secretariat, Bhubaneswar – 751001.
3. The Member Secretary, Andhra Pradesh Coastal Zone Management Authority Department of Environment Forests, Science and Technology, Government of Andhra Pradesh, Secretariat, Hyderabad - 500 022, Andhra Pradesh
4. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi – 110032.
5. The Member Secretary, Orissa Pollution Control Board, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit - VIII, Bhubaneswar, Odisha 751012.
6. The Member Secretary, Andhra Pradesh Pollution Control Board, Payavaran Bhawan, A-III, Industrial Estate, Sanath Nagar Hyderabad – 500 018.
7. The Member Secretary, Telangana Pollution Control Board, Payavaran Bhawan, A-III, Industrial Estate, Sanath Nagar Hyderabad – 500 018.
8. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandrasekharapur, Bhubaneswar – 751023
9. Guard File/Monitoring Cell.

  
**(W. Bharat Singh)**  
Director(CRZ)