

F.No.11-24/2020-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: 15th October, 2020

To

M/s Oil and Natural Gas Corporation,
Deendayal Urja Bhavan,
5, Nelson Mandela Marg,
Vasant Kunj, New Delhi -110070


Subject: CRZ Clearance for laying of 20-inch gas pipeline of 31 km length from Offshore platform, in the East Coast passing through the mouth of the Gautami- Godavari River, part of Yanam (2.51 km) U.T. of Puducherry and East Godavari District, Andhra Pradesh - regarding.

Sir,

This has reference to your online proposal No. IA/AP/CRZ/123952/2019 received in this Ministry for CRZ Clearance of the above mentioned project proposal, in accordance with the provisions of the Coastal Regulation Zone (CRZ) Notification, 2011 issued under the Environment (Protection) Act, 1986.

2. The proposal was considered by the Expert Appraisal Committee (EAC) for Infrastructure Development, Coastal Regulation Zone, Building/ Construction and Miscellaneous projects, in its 238th and 242nd meetings held on 30/06/2020 and 27/08/2020 respectively. The details of the project as per the documents submitted and presented during the aforesaid meeting are as under:

- (i) M/s Oil and Natural Gas Corporation Limited (ONGC) is developing Block KG-DWN-98/2 under the New Exploration Licensing Policy (NELP), in deep waters off the East Coast of India. The KG-DWN 98/2 block is located within 25-40 km of the nearest land-fall and the water depth in this block varies between 300 m to 3,200 m. Gas from 8 sub-sea wells for KG-DWN-98/2 shall be processed in the Central Process Platform (CPP) located at 30 m water depth. The processed gas shall further be compressed and transported to Onshore Gas Terminal at Mallavaram.
- (ii) The instant proposal of M/s ONGC is for laying 20" pipeline (about 31 km) from offshore platform, through mouth of the Gautami-Godavari river, part of Yanam (Puducherry) about 2.51 km and terminating at ONGC onshore plant at Mallavaram village, Thallarevu mandal, East Godavari district, Andhra Pradesh. The proposed pipeline is designed for a pressure of 120 kg/cm².
- (iii) The proposed 20" pipeline (about 31 km length) route from offshore Central Process Platform (CPP) location around 10 km of the east coast to Onshore Gas Terminal (OGT) at Mallavaram comprises of:
 - Offshore laying (about 9 km) at depth of 1-2 m by post lay trenching method.



- Laying along the river (about 11 km) at depth 2-7 m (below the scour depth) laid by dredging method, after entering through the river mouth cutting sand dunes.
 - Onshore laying involving shore pull in shore approaches / near shore location & onshore (about 11 km) buried at depth 2 m below surface by trenching method.
 - Laying the pipeline at river crossings (2 major rivers)/rivulets/roads/mangroves area below the river bed at a depth of 15 m or more by Horizontal Direction Drilling (HDD) method.
- (iv) The proposed pipeline route is passing through various CRZ areas as given below:

CRZ Classification	Yanam Portion Length (m)	East Godavari Portion Length (m)	Total Length (m)
CRZ-I(A)	123.88	1783.77	1907.65
CRZ-I(A) Mangroves 50 m buffer zone	158.02	1656.93	1814.95
CRZ-I(B)	113.30	592.89	706.19
CRZ-II	1092.06	127.82	1219.88
CRZ-III (NDZ)	-	1941.34	1941.34
CRZ-IV(A)	-	8779.95	8779.95
CRZ-IV(B)	7.62	10845.28	10852.95
Non-CRZ	1016.07	2582.94	3599.01
Total	2510.95	28310.92	30821.87 or ~31 km

- (v) No mangrove cutting is involved in the project as only HDD method is used to cross all water bodies and depth of pipeline is below the River bed by around 15 m, which is far below the root zone of Mangroves.
- (vi) The proposed 20" pipeline project is not passing through any notified National Park/Sanctuaries/Coral Reefs/ESA etc.
- (vii) A part of the pipeline route falls in forest land which is also part of CRZ area, and also part of River Gouthami. Pipeline length, about 1.17 km is passing through forest boundary. The forest area about 2.67 ha (10 m RoU either side of 1.17 km pipeline) falls in the river Gouthami, which is within the Forest Boundary and CRZ Area.
- (viii) Part of the proposed pipeline falls within the 10 km buffer zone of Coringa Wildlife Sanctuary, which is non-forest land. The boundary of the Coringa Wildlife Sanctuary is 2.32 km away from the pipeline nearest point. The Right of Use (RoU) during operation and entire life of pipeline would be, 18.96 ha within the Buffer zone of 10 km, with 10 m on either side of the pipeline in this zone.
- (ix) For construction purposes, temporary placement of equipment or structures will be required. After the completion of construction, the entire stretch will be cleared of all construction material, equipment, debris etc., and the land filled

back to original levels. Subsequently entry permit will be required for taking up periodical inspection and maintenance of pipeline. The installation activity to be performed along River Pipeline scope includes the following:

- Temporary cofferdam installation at LFP to aid in pulling the pipeline ashore;
- Temporary equipment setup and site leveling at LFP to aid in pulling the pipeline ashore;
- Temporary camp setup at a pre-determined location in the vicinity of LFP;
- Dredging of shallow water areas for marine spread access (pipelay barge, supply vessels)
- Dredging of a pre-trench along the indicated pipeline route along and within the river and through the natural sandbar at the river mouth;
- Temporary storage of dredged spoil either within the river channel, on the river banks or at pre-designated onshore temporary storage locations;
- Pipeline installation within the river and through the sandbar location;
- Engineered backfill (sand, rock and spoil) installation over the pipeline;
- Movement of installation vessels from the main Godavari River, along the tributary to the site, along with free access to complete installation activities; and
- Movement of personnel from the installation vessel to the onshore camp location by crew boat.

(x) Additional to the River Pipeline Installation, the installation activities to be performed at shore crossing include:

- Temporary access road to and from the shore site;
- Temporary cofferdam installation at shore crossing location to aid in pulling the pipeline ashore;
- Temporary equipment setup at shore location and site levelling to aid in pulling the pipeline ashore;
- Winch operation at shore pull location; and
- Pre-commissioning activities.

(xi) River and offshore section of the pipeline 20" Pipe X 19.1WT, Carbon Steel, concrete coated pipe. The hazardous material used for construction activities will be handled in accordance with MSIHC rules and detailed information will be included in MSDS. All safety requirements as stipulated in OISD / PESO / ONGC Guidelines will be followed while handling petroleum products.

(xii) The total water requirement during construction phase will be 25 KLD, which is sourced from local municipal tankers. Out of 25 KLD, for domestic purposes 13.5 KLD will be required and for construction activities 11.5 KLD will be required.

(xiii) No power requirement during operation phase. During construction phase, the fuel (approx. 5.68 KLD) will be required for running of D.G sets (2 Nos. X 500 kVA), welding equipment's, machinery, vehicles, etc. The requirement will be met from nearby energy stations.

(xiv) Excavated soil will be generated during construction phase, however the same will be reused in back filling the excavated area. Hazardous waste and oil waste will be stored as per guidelines and sent to authorized collection agency. Domestic waste of 10 KLD will be generated and will be discharged in septic

tanks & soak pits. Commercial waste is expected and will segregated and disposed / handover to authorized recyclers.

(xv) The employment potential of the project is 300 persons during construction phase. Several other indirect employment opportunities such as transport, business, vehicle drivers and attendants, workshops, grocery and retails, medical, etc. is envisaged due to the laying of proposed pipeline.

(xvi) The total cost of proposed pipeline project is ₹1562 crores

(xvii) Andhra Pradesh Coastal Zone Management Authority (APCZMA) has recommended the above proposal for clearance vide their letter No. 179/CRZ/IND/2019/29 dated 21st May, 2020.

(xviii) Puducherry Coastal Zone Management Authority (PCZMA) has recommended the above proposal for clearance vide its letter No. 3678/DSTE/PCZMA/CLR/SCI/2019/572 dated 08th January, 2020.

3. Based on the recommendations of the Andhra Pradesh Coastal Zone Management Authority issued vide its letter No. 179/CRZ/IND/2019/29, dated 21st May, 2020 and Puducherry Coastal Zone Management Authority issued vide its letter No. 3678/DSTE/PCZMA/CLR/SCI/2019/572, dated 08th January, 2020, and information submitted as at para no. 2 above and information provided during the presentation before the Expert Appraisal Committee and others, the Ministry of Environment, Forest and Climate Change, in acceptance of the recommendation of the Expert Appraisal Committee (CRZ), hereby accords CRZ Clearance for '*Laying of 20-inch gas pipeline of 31 km length from Offshore platform, in the East Coast passing through the mouth of the Gautami- Godavari River, part of Yanum (2.51 km) U.T. of Puducherry and East Godavari District, Andhra Pradesh*', under the provision of CRZ Notification, 2011 and amendments thereto and circulars issued thereon, and subject to compliance of the following specific and general conditions as under:

PART A – SPECIFIC CONDITIONS:

(i) The clearance is subject to obtaining prior clearance from the Standing Committee of National Board of Wildlife, as may be applicable.

(ii) A minimum of ten times the number of trees felled (non-mangrove trees) shall be replanted.

(iii) No groundwater shall be extracted to meet with the water requirements during the construction and/or operation phase of the project.

(iv) Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.

(v) As per the Ministry's Office Memorandum F.No. 22-65/2017-IA.III dated 1st May, 2018, and proposed by the project proponent, an amount of ₹7.81 crores i.e @0.5% of project Cost shall be earmarked under Corporate Environment Responsibility (CER) with special focus on providing healthcare facilities to the government hospitals in light of COVID 19 pandemic. Other activities include

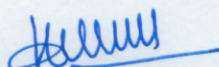
support to local government, schools, sanitation and health including construction of public toilets in the surrounding villages, as per need based assessment carried out. The activities proposed under CER shall be restricted to the affected area around the project. The monitoring report shall be submitted to the regional office as a part of half yearly compliance report, and to the District Collector. It should be posted on the website of the project proponent.

- (vi) The conditions stipulated by the Andhra Pradesh Coastal Zone Management Authority issued vide its letter No. CRZ 2019/CR181/TC-4, dated 4th November, 2019 and Puducherry Coastal Zone Management Authority issued vide its letter No. 3678/DSTE/PCZMA/CLR/SCI/2019/572, dated 08th January, 2020, shall be strictly implemented as may be admissible.

PART B - GENERAL CONDITIONS:

- (i) No excavated material during the construction shall be dumped in water bodies or adjacent areas.
- (ii) Management of solid waste in accordance with the Solid Waste Management Rules, 2016 shall be strictly implemented.
- (iii) 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.
- (iv) All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central/State Pollution Control Board. There shall not be any disposal of untreated effluent into the sea/coastal water bodies. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to SPCB.
- (v) Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.
- (vi) 'Consent to Establish' and /or 'Consent to Operate' shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and / or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable.
- (vii) A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/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.

- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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 extant CRZ regulations.
- (xii) 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.
- (xiii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.
- (xiv) 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.
- (xv) 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.
- (xvi) 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.

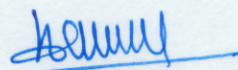
4. This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

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 Parish/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 SPCB.

8. 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 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.

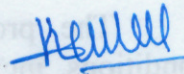


(Dr. H. Kharkwal)
Additional Director /
Scientist 'E' (CRZ)

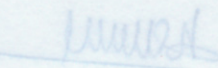
Copy to:

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Secretariat, 4th Block, Government Interim Complex, Velagapuddi - 522 503, Guntur, AP
2. The Chairman, Andhra Pradesh Coastal Zone Management Authority, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Secretariat, 4th Block, Government Interim Complex, Velagapuddi - 522 503, Guntur, AP
3. The Principal Secretary, Department of Science, Technology & Environment, Govt. of Puducherry, Main Building, Chief Secretariat, Puducherry - 605001.
4. The Chairman, Puducherry Coastal Zone Management Authority, Department of Science, Technology & Environment, III Floor, PHB building, 5, Anna Nagar, Puducherry 605005.

5. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, CBD cum Office Complex, East Arjun Nagar, Delhi - 110032
6. The Member Secretary, Andhra Pradesh Pollution Control Board, Kadiyala Vari St, Moghalrajpuram, Suryaraopeta, Vijayawada, Andhra Pradesh 520002
7. The Member Secretary, Andhra Pradesh Coastal Zone Management Authority, D.No.33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel Centre, Chalamavari Street, Kasturibaipet, Vijayawada - 520010
8. The Member Secretary, Puducherry Pollution Control Committee, III Floor, PHB building, 5, Anna Nagar, Puducherry 605005.
9. The Member Secretary, Puducherry Coastal Zone Management Authority, Department of Science, Technology & Environment, III Floor, PHB building, 5, Anna Nagar, Puducherry 605005.
10. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (SEZ), I and II Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai - 600034
11. Guard File/ Record File/ Monitoring Cell.



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Additional Director /
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Copy to:

1. The Principal Secretary, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Secretariat, 4th Block, Government Interim Complex, Velagapudi - 522 503, Guntur, AP.
2. The Chairman, Andhra Pradesh Coastal Zone Management Authority, Department of Environment, Forest, Science & Technology, Government of Andhra Pradesh, Secretariat, 4th Block, Government Interim Complex, Velagapudi - 522 503, Guntur, AP.
3. The Principal Secretary, Department of Science, Technology & Environment, Govt of Puducherry, Main Building, Chief Secretariat, Puducherry - 605001.
4. The Chairman, Puducherry Coastal Zone Management Authority, Department of Science, Technology & Environment, III Floor, PHB building, 5, Anna Nagar, Puducherry 605005.