

F. No. 11-37/2007 - IA III
Government of India
Ministry of Environment, Forest & Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

Telefax: 011: 24695398
Dated: 14th October, 2016

To,

**The Managing Director,
M/s Adani Petronet (Dahej) Port Pvt Ltd.
Adani House,
Near Mithakhali Circle,
Navarangapura, Ahmedabad
Gujarat**

E-mail: gudena.rao@adani.com; Phone: 079-25555603;

Subject: Expansion of Adani Petronet (Dahej) Port Private Limited, Dahej, Bharuch District, Gujarat by M/s Adani Petronet (Dahej) Port Pvt Ltd. –Environmental and CRZ Clearance reg.

Ref.: Your online proposal no. IA/GJ/MIS/30886/2013 dated 14th March, 2016.

Sir,

This has reference to your online proposal no. IA/GJ/MIS/30886/2013 dated 14th March, 2016 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report regarding above mentioned project.

2.0 The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for expansion of Adani Petronet (Dahej) Port Private Limited, Dahej, Bharuch District, Gujarat. M/s Adani Petronet (Dahej) Port Private Limited (APPPL) has proposed to developed additional area for coal stockpiles, back up equipment's, coal storage silo at railway siding and other supporting infrastructure and to *expand* its cargo handling facility from 11.7 MMTPA to 23 MMTPA by proposing the following activities:

- (i) Reclamation to the tune of 23 Ha Contiguous lands to the existing back-up area to store and handle multipurpose cargo.
- (ii) Optimal utilization of existing back-up area for coal storage and handling of other designated cargo. Additional coal stock pile to be developed for storage of 1.1 Million Tonnes.
- (iii) Widening of existing 15 m wide rubble bund to 60 m wide to handle project cargo (i.e. ODC).
- (iv) Existing Ramp being used for port crafts and tugs will be strengthened to handle project cargo.

- (v) Mechanization of south jetty to handle coal cargo.
- (vi) Rail loading silo and other supporting infrastructure facilities.
- (vii) No dredging, Break water, Jetties are proposed.
- (viii) The overall Capacity and productivity of terminal will increase from 11.7 MMTPA to 23 MMTPA .

3.0 The proposal includes other cargoes like Steel, Gypsum, Project cargoes, Silica sand etc. It is reported that no national park, marine parks, sanctuaries, reserve forests, wildlife habitates, biosphere reserves are located at the project site. Mudflats are present at project site, which is reported to be biologically insensitive. Coastal areas rich in mangroves are located at Ban Khadi (7 km from the project site); Ghugar khadi (10.5 km) and Narmada Estuary (12 Km). Nearest water bodies /reservoirs are Lakhabava pond (1.3 km), Ambetha pond (6.8 km), Jolva Pond (13.4 km), Sabarmati Pond (4.3 km) and Narmada Estuary (3 Km). Marginal fishing is done by about 50 fishermen from Jageshwar village along the shore. Cost of expansion project is Rs. 464.32 Crore. Out of which, Rs 171.65 Crore and Rs 173.35 Crore are earmarked towards capital cost and recurring cost per annum for environmental management plan.

4.0 APPPL has developed the said port in phased manner. Existing berths, jetty, rubble bund, stack yard and supporting infrastructure were developed in phase-1. The CRZ clearance for phase-1 was accorded on 6th July, 2007 by MoEF. In phase-II, 38 ha of forest land were diverted for port backup area. MoEF granted environmental clearance for the same on 11th November, 2008. PP has submitted the copy of letter no 6-GJC060/2006- BHO/1508 dated 16.06.2008 issued by MoEF&CC, Regional office, Bhopal for diversion of 38.00 ha. of forest land. Current proposal of APPL, intends to expand Dahej Port under Phase-III.

5.0 Air pollution control measures will be taken to reduce the fugitive coal dust emissions viz. (i) water spray nozzle will be provided at the top of the mobile hopper; (ii) conveyor belt with hood and water spray arrangement to reduce the dust; (iii) at all transfer tower dry fog dust suppression system will be provided; closed transfer towers will be provided. Stacker cum reclaimer with water spray nozzles and use of mist canon for dust suppression during stacking will be provided (iv)water sprinkling in the coal storage yards, wind breaker of 14 m height and greenbelt along storage yard will be provided; (v) tyre washing system will be provided to minimize the dust problem; (vi) dust suppression system at the conveyor belt just before the chute will be provided at filling of silo for railway rack loading; (vii) Dry fog dust suppression system shall be provided to suppress the coal dust; water spray nozzles shall be provided to suppress the dust during wagon filing at railway rack loading. The total water demand for the proposed project will be increased from 600 m³/day to 4500 m³/day after expansion. Source of water supply is GIDC water supply. Water used for dust suppression system is collected in a solar evaporation pond. The collected water will be evaporated through solar evaporation and the sludge generated from the pond is sent to coal yard for recycling. Sewage will be treated in the sewage treatment plant (STP). The total power demand is estimated as 7000KVA. STP will be set up in modular phases for management of sewage. It is proposed to develop total greenbelt in an area of approximately 6 ha. within the project area. Existing greenbelt alignment on the north side and south side will be extended towards sea in the width of 5 m on both side of proposed reclamation area of 23 ha. On the eastern side (landward side) greenbelt area will, be developed in the width of 5m.

6.0 Public hearing was held on 18th March 2015.

7.0 Gujarat Coastal Zone Management Authority vide letter no. ENV-10-2015-171-E dated 14th March, 2016 has recommended the proposal to MoEF&CC to grant CRZ clearance for proposed Phase- III expansion project at Dahej by M/s Adani Petronet (Dahej) Port Ltd. It is also reported that as per CRZ map duly demarcation of HTL CRZ Boundary etc. prepare by the National Centre for Earth Science Studies, Thiruvananthpuram, the proposed activities falls within CTZ-I (B), CRZ – III Categories, which are permissible as per CRZ Notification, 2011.

8.0 All the projects related to Ports and Harbour i.e. ≥ 5 million TPA of cargo handling capacity (excluding fishing harbours) are listed at 7(e) of schedule of EIA Notification, 2006 covered under category 'A' and appraised at central level.

9.0 The proposal was considered by the Expert Appraisal Committee (Infrastructure-2) in its meetings held during 28th- 30th October, 2013 and 28th – 29th March, 2016 respectively. Project Proponent and the EIA Consultant namely M/s Cholamandalam MS Risk Services Limited, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be adequate and in full consonance with the presented TORs. The Committee recommended the proposal for environmental and CRZ clearance.

10.0 As per the recommendations of EAC, the Ministry of Environment, Forest & Climate Change hereby accords Environmental and CRZ Clearance for the above-mentioned project "Expansion of Adani Petronet (Dahej) Port Private Limited, Dahej, Bharuch District, Gujarat by M/s Adani Petronet (Dahej) Port Pvt. Ltd.", under the provisions of the Environment Impact Assessment Notification, 2006 & Coastal Regulation Zone (CRZ) Notification, 2011 and amendments thereto and Circulars issued thereon and subject to the compliance of the following specific conditions, in addition to the general conditions mentioned below:

A. SPECIFIC CONDITIONS:

- (i) 'Consent for 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.
- (ii) Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (iii) The Project proponent shall ensure that there shall be no damage to the existing mangroves patches near site and also ensure the free flow of water to avoid damage to the mangroves.
- (iv) The Project proponent shall ensure that no creeks or rivers are blocked due to any activities at the project site and free flow of water is maintained.
- (v) Shoreline should not be disturbed due to dumping. Periodical study on shore line changes shall be conducted and mitigation carried out, if necessary. The details shall be submitted along with the six monthly monitoring report.

- (vi) The commitments made during the Public Hearing and recorded in the Minutes shall be complied with letter and spirit. A hard copy of the action taken shall be submitted to the Ministry.
- (vii) All the conditions stipulated in the earlier Clearance including the recommendations of Environment Management Plan, Disaster management Plan shall be strictly complied with.
- (viii) The material for reclamation shall be sourced only through Government approved quarry. The quarried material shall be free from all kinds of contamination and high organic carbon contents. The same should be tested prior to reclamation.
- (ix) The coal shall be stored only in designated stock yard with dust control measures viz. wind screen of height at least 2 m above the coal stock, made of fabric/HDPE, water sprinkler arrangement, green belt of at least three layers of suitable trees and scrubs.
- (x) The coal from the ships shall be conveyed through closed conveyor to the coal stock yard. The conveyor shall be seamless without joints/transfer points.
- (xi) The dust from the roads shall be periodically cleaned and dust suppression by water spray be carried out.
- (xii) The mangrove plantation of 50 ha shall be undertaken in consultation with Gujarat Ecology Commission / State Forest Department.
- (xiii) Cargo shall be unloaded directly into hopper from the ship and transported to the stack yards through closed conveyor system only. Inbuilt dust suppression systems shall be provided at hoppers and all the transfer points / storage yards. Cargo shall not be unloaded directly onto the berth. Water meters shall be provided at different locations to record the consumption of water used for dust suppression and daily log shall be maintained.
- (xiv) Disposal sites for excavated material should be so designed that the revised land use after dumping and changes in the land use pattern do not interfere with the natural drainage.
- (xv) The ground water shall not be tapped within the CRZ areas by the PP to meet with the water requirement in any case.
- (xvi) Necessary arrangements for the treatment of the effluents and solid wastes must be made and it must be ensured that they conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
- (xvii) All the operational areas will be connected with the network of liquid waste collection corridor comprising of storm water, oily waste and sewage collection pipelines.

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- (xviii) Marine ecology shall be monitored regularly also in terms of sea weeds, sea grasses, mudflats, sand dunes, fisheries, echinoderms, shrimps, turtles, corals, coastal vegetation, mangroves and other marine biodiversity components as part of the management plan.
- (xix) The marine ecology management plan being drawn up with regards to the environmental impacts of natural disasters, oil spills and other wastes, dredging and dumping on marine ecology (all micro, macro and mega biotic components) shall be scrupulously implemented. It shall be ensured that the marine ecology in the area of influence is not adversely affected.
- (xx) Marine ecology shall be monitored regularly also in terms of all micro, macro and mega floral and faunal components of marine biodiversity.
- (xxi) Measures should be taken to contain, control and recover the accidental spills of fuel and cargo handle.
- (xxii) All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to the RO, MoEF&CC along with half yearly compliance report.
- (xxiii) Ships/barges/vessels shall not be allowed to release any oily bilge waste or ballast water in the sea. Any effluents from the Jetty which have leachable characteristics shall be segregated and recycled/disposed as per SPCB guidelines. Ships/vessels calling at the jetty shall not dump waste/bilge water during the berthing period.
- (xxiv) Location of DG sets and other emission generating equipment shall be decided keeping in view the predominant wind direction so that emissions do not effect nearby residential areas. Installation and operation of DG sets shall comply with the guidelines of CPCB.
- (xxv) All the mechanized handling systems and other associated equipments such as hoppers, belt conveyors, stacker cum reclaimers shall have integrated dust suppression systems. Dust suppression systems shall be provided at all transfer point.
- (xxvi) No product other than permitted under the CRZ Notification, 2011 shall be stored in the CRZ area.
- (xxvii) The quality of treated effluents, solid wastes, emissions and noise levels and the like, from the project area must conform to the standards laid down by the competent authorities including the Central or State Pollution Control Board and under the Environment (Protection) Act, 1986.
- (xxviii) All the mitigation measures suggested in the EIA report and the marine environment study of CWPRS, Pune shall be implemented. The compliance for each of these measures shall be submitted to concerned SPCB and R.O. of this Ministry along with six monthly compliance reports.

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- (xxix) It shall be ensured by the Project Proponent that the activities does not cause disturbance to the fishing activity, movements of fishing boats and destruction to mangroves during the construction and operation phase.
- (xxx) The Project Proponent shall take up and earmark adequate fund for socio-economic development and welfare measures as proposed under the CSR Programme. This shall be taken up on priority.
- (xxxi) The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (xxxii) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.
- (xxxiii) The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.
- (xxxiv) 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 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.
- (xxxv) Corporate Social Responsibility:
 - a. The Company shall have a well laid down Environment Policy approved by the Board of Directors.
 - b. The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.
 - c. The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.
 - d. To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large.

B. GENERAL CONDITIONS:

- (i) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (ii) Full support shall be extended to the officers of this Ministry/ Regional Office at Bhopal by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.

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- (iii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bhopal regarding the implementation of the stipulated conditions.
- (iv) Ministry of Environment, Forest and 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.
- (v) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (vi) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest and Climate Change.
- (vii) The project proponents 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 land development work.
- (viii) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal..
- (ix) A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.

11.0 These stipulations would be enforced among others under the provisions of 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 and EIA Notification 1994, including the amendments and rules made thereafter.

12.0 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 proponents from the respective competent authorities.

13.0 The project proponent shall 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 Environmental and CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board 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 Regional office of this Ministry at Bhopal.

14.0 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.

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15.0 Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.

16.0 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.

17.0 A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, ZillaParisad/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 website of the company by the proponent.

18.0 The proponent shall upload the status of compliance of the stipulated EC 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 MoEFCC, the respective Zonal Office of CPCB and the SPCB.

19.0 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 EC conditions and shall also be sent to the respective Regional Offices of MoEFCC by e-mail.


14/10/16
(A N Singh)
Scientist D

Copy to :-

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010, Gujarat.
2. The Chief Conservator of Forests (Western Zone), Ministry of Environment & Forests, Regional Office, E-5, Arera Colony, Link Road -3, Bhopal -462 016, M.P.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043, Gujarat.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, *Jor bagh Road*, New Delhi.
6. Guard File/Monitoring File/Record File.

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(A N Singh)
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