

**No.J-16011/40/99-IA-III**  
**Government of India**  
**Ministry of Environment & Forests**

Paryavaran Bhawan,  
CGO Complex, Lodi Road,  
New Delhi - 110 003.

Dated the September 20, 2000

**Sub: Environmental Clearance for the proposed Port Expansion Project including dry/break bulk cargo container terminal, railway link and related ancillary and back-up facilities at Mundra Port, District Kachchh in Gujarat by M/s Gujarat Adani Port Limited - Reg.**

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Reference is invited to the communication No.ENV-1098-6477-P1 dated October 28, 1999, No. ENV-1099-2702-P1 dated December 27, 1999, No. ENV-1099-2702 P1 dated January 4, 2000, ENV-1098-6477-P1 dated 12<sup>th</sup> January, 2000, No. ENV-1098-6477-P1 dated May 9, 2000 and No. ENV-1098-6477-P1 dated June 26, 2000 from the Forests and Environment Department, Government of Gujarat along with the project documents and subsequent clarifications and additional information regarding the above mentioned project. The information provided by M/s Gujarat Adani Port Ltd. vide their letter No. GAPL/NAV-PORT/AAV/4554 dated October 27, 1999, No. GAPL/NAV-PORT/AAV/4629 dated May 04, 2000, No. GAPL/NAV-PORT/AAV/5002 dated June 13, 2000 and the documents forwarded by Ministry of Surface Transport vide their OM No. PD-26017/1/2000 - PDZ(CRZ) dated 4<sup>th</sup> August, 2000 have also been considered.

2. The proposal for (i) construction of 1100 m long quay wall along the western bank of Navinal Creek for handling dry/break bulk cargo, (ii) capital and maintenance dredging in the approach channel, turning circle and the quay alongside the Navinal Creek to 14.5 m RL (iii) laying of 7.5 km (approx.) long railway line within Mundra Port, as a part of B.G. railway line (54 km. long) from Adipur to Mundra Port (iv) container yard and ancillary facilities in Gujarat by M/s Gujarat Adani Port Limited has been examined in this Ministry and environmental clearance for the project is hereby accorded subject to the effective implementation of the following terms and conditions:

**A. Specific Conditions**

- i) All the conditions stipulated by the Gujarat Pollution Control Board vide their NOC No. PC/NOC/Kutch/391/18424 dated 10.6.99 and No. PC/NOC/Kutch/222(2)/16880 dated 1.5.99 shall be strictly implemented.
- ii) The conditions stipulated in the letter No ENV-1098-6477-PI dated October 28, 1999 and No. ENV-1099-2702-PI dated 27.12.99 of Forest and Environment Department, Government of Gujarat shall be strictly implemented.



- iii) The turning circle should be increased from 550 m to 600 m.
- iv) A girdle canal with settlement tanks shall be provided around the coal storage area.
- v) All efforts shall be made for water conservation and rain water harvesting. Arrangements shall be made for roof top rain water harvesting from various structures.
- vi) To obviate the problem of coastal erosion due to dredging, the setback distance of atleast 50 m from the Chart Datum line of Bocha Island would be maintained.
- vii) The dredged material shall be disposed of only in the identified locations outside the CRZ area. While dumping the dredged material, sufficient distance should be ensured from the existing mangroves so that there is no damage to the ecology. During dumping of dredged material the mitigative measures as suggested by NIO shall be implemented. It shall be ensured that there is no dumping of dredged material in the CRZ.
- viii) The mangrove afforestation shall be undertaken at the identified sites and the progress report in this regard shall be submitted to this Ministry regularly. All the recommendations suggested in the NIO report for restoration of the coastal habitat by mangrove afforestation at Navinal Island shall be strictly implemented.
- ix) No groundwater shall be withdrawn for this project.
- x) The project proponent shall ensure that the construction workers do not cut the mangroves for fuelwood etc.
- xi) The project proponent shall ensure that no creeks are blocked and the natural drainage of the area is not affected due to the project activities.
- xii) The project proponent shall ensure that there will be no disposal of sullage and sewage generated from construction camps, surface run-off from construction sites, and oil and grease spillage from the construction equipments in the creeks.
- xiii) The project proponent shall stick to the time bound programme submitted to the Department of Environment, Government of Gujarat for the proposed activities including installation of desalination plant for meeting the entire water requirement. They shall coordinate their construction/operations schedule with the installation schedule of desalination plant.
- xiv) The project proponent shall ensure that the commercial fisheries are not hampered due to presence of barges, vessels and other activities in the region. Necessary plan in this regard shall be prepared in consultation with the NIO and submitted within 3 months.



- xv) The project proponent shall bear the cost of the external agency that may be appointed by the Department of Environment, Government of Gujarat for carrying out the supervision and/or the monitoring of the construction activities.
- xvi) The project proponent shall carry out the post-project monitoring of various environmental parameters in consultation with the Department of Environment, Government of Gujarat and Gujarat Pollution Control Board.
- xvii) The project proponent shall prepare the detailed traffic control management plan for the Port and shall participate in the VTMS to be developed for the Gulf of Kachchh.
- xviii) Action Plan shall be prepared by the project proponents to prevent damage to marine life and also to the coastline in case of any oil spillage and the same shall be strictly implemented. Regular mock drills shall be carried out to ensure fitness of the equipment in place.
- xix) The project proponents shall work out the maximum quantity of spilled material, which can find its way into the coastal waters, under different accident scenarios, and their impact on aquatic life shall be studied after clearly demarcating the impact zones. On the basis of such studies, the necessary action plan to mitigate the likely impacts shall be prepared before commencement of the operations. Action taken report in this regard shall be submitted to the Ministry.

**B. General Conditions: -**

- (i) Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/local rules and regulations. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments/Agencies.
- (ii) The proponent shall ensure that as a result of the proposed constructions ingress of the saline water into the ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.
- (iii) A comprehensive contingency plan in collaboration with the concerned authorities must be formulated to contain in case of any oil spills. Appropriate devices such as oil skimmer, oil monitor, oil water separator must be acquired for strengthening the contingency plan. All the service vessels that required for oil spill operations must be equipped with booms and dispersants. The personnel on board of these vessels must be properly trained in operation of these booms and dispersants.
- (iv) The operation plan for responding to an oil spill must include clear procedures for notification of a spill, response decisions, clean up operations, communications, termination of cleanup operations, cleanup cost, oil pollution, damage control and disaster management plan.



- (v) A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up so as to ensure that the quality of ambient air and water conforms to the prescribed standards. The laboratory will also be equipped with qualified manpower including a marine biologist so that the marine water quality is regularly monitored in order to ensure that the marine life is not adversely affected as a result of implementation of the said project. The quality of ambient air and water shall be monitored periodically in all the seasons and the results should be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this Ministry as well as its Regional Office at Bhopal.
- (vi) Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation, etc. must be provided for the labourers during the construction period in order to avoid damage to the environment. Colonies for the labourers should not be located in the CRZ area. It should also be ensured that the construction workers do not cut trees including mangroves for fuel wood purpose.
- (vii) To prevent discharge of sewage and other liquid wastes in to the water bodies, adequate system for collection and treatment of the wastes must be provided. No sewage and other liquid wastes without treatment should be allowed to enter into the water bodies. The quality of treated effluents, emissions, solid wastes and noise levels must conform to the standards laid down by the competent authority including the Central/State Pollution Control Board.
- (viii) Appropriate facility should be created for the collection of solid and liquid wastes generated by the barges/vessels and their safe treatment and disposal should be ensured to avoid possible contamination of the water bodies.
- (ix) Necessary navigational aids such as channel markers should be provided to prevent accidents. Internationally recognised safety standards shall be applied in case of barge/vessel movements.
- (x) During operation phase proper precautions should be taken to avoid any oil spills and no oily wastes shall be discharged into the water bodies.
- (xi) The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.
- (xii) The quarrying material required for the construction purpose shall be obtained only from the approved quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site does not find their way into water bodies.
- (xiii) The dredging operations, if any, to be undertaken with the prior approval of this Ministry, shall be executed with appropriate safeguard measures to prevent turbidity conditions in consultation with the expert agencies such as CWPRS/NIO.



- (xiv) For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.
- (xv) To meet any emergency situation, appropriate fire-fighting system and water pipelines should be installed. Appropriate arrangements for uninterrupted power supply to the environment protection equipment and continuous water supply for the fire fighting system should be made.
- (xvi) Regular drills should be conducted to check the effectiveness of the on-site Disaster Management Plan.
- (xvii) The recommendations made in the Environmental Management Plan and Disaster Management Plan, as contained in the EIA and Risk Analysis Reports of the project, shall be effectively implemented.
- (xviii) A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.
- (xix) The project affected people, if any, should be properly compensated and rehabilitated.
- (xx) The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry.
- (xxi) Full support should be extended to the officers of this Ministry's Regional Office at Bhopal and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection for monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.
- (xxii) In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification in the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.
- (xxiii) This Ministry reserve the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.
- (xxiv) This Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.
- (xxv) A copy of the clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.



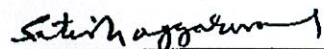
(xxvi) State Pollution Control Board should display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's Office for 30 days.

(xxvii) The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen at Website of the Ministry of Environment and Forests at <http://www.envfor.nic.in/>.

(xxviii) The Project proponents should 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.

○ (xxix) The project proponent should make specific arrangements for rainwater harvesting in the project design and the rainwater so harvested should be optimally utilized.

The above mentioned stipulations will be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Chemicals (Manufacture, Storage and Import) Rules, 1989, the Coastal Regulation Zone Notification, 1991 as amended in 1994 and July, 1997 and the Public Liability Insurance Act, 1991 and the Rules made thereunder from time to time. The project proponents should also ensure that the proposal complies with the provisions of the approved Coastal Zone Management Plan of Gujarat State and the Supreme Court's order dated 18<sup>th</sup> April, 1996 in the Writ Petition No. 664 of 1993 to the extent the same are applicable to this proposal.



(Dr. S.K. Aggarwal)  
Additional Director

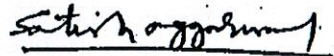
○ To

The Secretary,  
Environment and Forests Department,  
Government of Gujarat,  
11/2, Sardar Patel Bhawan,  
Sachivalaya,  
Block No. 14/8,  
Gandhinagar - 382 010.

Copy to:

1. The President (Corporate), Gujarat Adani Port (Ltd.), Adani House, Srimali Society, Nr. Mithakhali Circle, Navrangpura, Ahmedabad - 380 009.
2. Secretary, Ministry of Surface Transport, Parivahan Bhawan, New Delhi.

3. C.C.F., Regional Office (Central), Ministry of Environment & Forests, Arera Colony, Bhopal.
4. The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
5. The Chairman, Gujarat State Pollution Control Board, Gandhinagar, Gujarat.
6. DIG (SU), Regional Office Cell, Ministry of Environment and Forests, New Delhi
7. Guard File.
8. Monitoring Cell.
9. Sr. Adviser (H), Ministry of Environment & Forests, New Delhi.

  
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Additional Director