

Paryavaran Bhawan, CGO Complex,  
Lodi Road, New Delhi - 110003.

25 August, 1995

OFFICE MEMORANDUM

Subject:- Handling facility of General Cargo/LPG/Chemicals and their storage terminal at Navinal Island, Mundra Taluka of Kutch District, Gujarat - Environmental clearance regarding.

Reference is invited to the letters dated 10th March, 8th April, 19th May and 28th July, 1995 from Adani Port Limited seeking environmental clearance for the above mentioned proposal for construction of a Jetty and storage facilities at Navinal Island.

2. The proposal has been examined and clearance is hereby accorded from environmental angle subject to the following conditions :-

- i) All construction designs/drawings relating to various project activities should have the approval of the concerned State Government Departments/Agencies.
- ii) To prevent discharge of bilge wastes, sewage and other liquied wastes from the oil tankers/ships into marine environment, adequate system for collection, treatment and disposal of liquied wastes including shore line installation and special hose connections for ships to allow for discharge of sewage must be provided.
- iii) The quality of treated effluents, solid wastes, emissions and noise levels etc. must conform to the standards laid down by the competent authorities including the Central and State Pollution Control Boards under the Environment(Protection) Act, 1986 whichever are more stringent.
- iv) Adequate provision for infrastructure facilities such as water supply, roads, sanitation etc. should be ensured so as to avoid environmental degradation in the surrounding areas. These facilities should be brought into existence during the construction phase and will remain in existence thereafter as part of the infrastructure built up in the area for local developmental purposes.

.....2/-



- v) Adequate noise control measures should be ensured in various project activities and due to increase in the traffic which is likely to take place during construction and operational phases.
- vi) The water quality parameters such as dissolved oxygen, ammonical nitrogen and other nutrients etc. should be measured at regular intervals to ensure adherence to the prescribed standards of water qualities. Suitable ground water monitoring should also be undertaken around the sludge lagoons and regular reports be submitted to the Ministry for evaluation.
- vii) Adequate culverts should be provided for smaller creeks so that breeding grounds for crabs, mud snappers and other marine organisms are not cut off by road construction activities.
- viii) A hundred meter wide mangrove belt should be created all along the West of Navinal Creek till its junction upto new road. Green belt of 50m width should also be provided all along the periphery of the plant site and along the roads, storage tanks etc. at 1500 trees per hectare. All details regarding the mangrove belt and other afforestation work must be worked out in consultation with the State Forest Department, and details sent to the Ministry.
- ix) Arrangements should be made for ensuring fresh water availability for various project related activities. Special water harvesting programmes should be undertaken in the project impact area. Details of these activities should be reported to the Ministry.
- x) While filling the storage tanks, compatibility of the chemicals should be ensured for chemical safety. Since 5000 MT capacity is proposed to be created for cryogenic conditions, necessary HAZOP study should be initiated and submitted to the Ministry within three months. Calculations carried out on the basis of EFFECT MODEL for this storage should be rechecked for various accident scenarios. Keeping in view the safety aspects, horten spheres of 1250 MT capacity each should be preferred.
- xi) The measures suggested by the Gujarat State Pollution Control Board in February, 1995 while according 'No Objection Certificate' should be strictly followed and authorisation certificate required for converting NCC into 'a consent to operate' should be submitted within three months.

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- xii) For ensuring the acceptance of the project by the local people, a Resolution of the Official Panchayat of the Region should be obtained offering their concurrence in writing by the project proponents and submitted to the Ministry by 31st October, 1995.
- xiii) A permanent staff structure should be created with latest R&D facilities and suitable equipments for environmental and forestry activities through creation of Environmental Cell. Adequate funds should be earmarked for this Cell.
- xiv) Landsat imagery should be obtained on a continuous basis covering various seasons to study the change in the landuse pattern due to the project and project related activities.
- xv) With a view to providing adequate job opportunities to local people, facilities for technical training and development of skills should be made available in consultation with the State Harbour Department, and to this end it must be ensured that there is allocation of adequate funds. The local people should be involved in the afforestation programme proposed for the Scheme to ensure public participation and success of vegetation programmes.
- xvi) Prior clearance must be taken under the Hazardous Chemicals (manufacture, import and storage) Rules 1989, as amended up to date, from the competent authority. Such clearance will have to be taken prior to the commissioning of the project.
- xvii) A detailed progress report should be submitted to the Ministry on each of the conditions stipulated above in respect of the follow-up action taken every six months. The first of these two reports should be sent in by 31.3.1996.
- xviii) Financial requirements for implementation of the above indicated environmental mitigative measures should be worked out and included in the total cost of the project. Provision for enhancing this allocation in future should also be made.

In case of any deviations/alterations in the project proposal from those submitted to the Ministry for clearance, a reference should be made to the Ministry for reappraisal of the project.

These stipulations will be enforced among others under the (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981 and the Environment Protection Act, 1986.

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5. The Ministry reserves the right to add additional safeguard measures, if found necessary, during implementation of the project.

6. The Ministry reserves the right to take action including revoking of the clearance under the provisions of Environment (Protection) Act, 1986 to ensure implementation of safeguard measures in a time bound and satisfactory manner. Action taken on items (x), (xi) and (xii) of para 2 should, therefore, be communicated to the Ministry within three months.

*NBhat*  
( NALINI BHAT )  
ADDITIONAL DIRECTOR

○ Dr. Malay Mahadevia,  
Vice President,  
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Copy to :-

1. Secretary, Ministry of Surface Transport, Parivahan Bhavan, New Delhi - 110001.
2. Chairman, Gujarat State Pollution Control Board, Old Assembly Building, 2nd floor, Sector 10-A, Gandhinagar-382043
3. Chief Conservator of Forests, Gujarat.
- 4. Chief Conservator of Forests, Regional Office, Arera Colony Bhopal.
5. Dr. I.K. Kamboj, Adl. Director, Ministry of Environment and Forests for monitoring and follow up action.
6. Guard file.

( NALINI BHAT )  
ADDITIONAL DIRECTOR