

No.11-63/2005-IA-III
Government of India
Ministry of Environment and Forests
(IA-III Division)

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110003

Dated the 19th December, 2005

Sub: Environmental clearance for construction of revetment for the setting up of a Marine Terminal at Chitrapettai village, Cuddalore district by M/s Chemplast Sanmar Limited – regarding.

Reference is invited to the letter No.29436/EC.3/2005-1, dated 9.11.2005 from Environment and Forests, Government of Tamil Nadu regarding the subject mentioned above. Further letters from M/s Chemplast Sanmar Limited received *vide* letter No.CUD/ENV/400/004, dated 14.11.2005 have been taken into consideration.

The main project involves setting up of a PVC manufacturing plant of 1,40,000 tpa capacity at SIPCOT Phase-II, near Semmankuppam village, Cuddalore. Since, VCM is not available indigenously, Chemplast is planning to source it from international suppliers and import the same for their plant use at Cuddalore. Towards this, they propose to install a Marine Terminal Facility (MTF) for receiving and transferring VCM from the ships to the PVC plant.

The MTF will comprise the following:-

- An island jetty is to be constructed for a length of 1 km. The natural depth of 10.5 m to accommodate vessels upto 20,000 DWT (10000 DWT fully loaded of 130 m length and 20,000 DWT fully loaded of 160 m length). The island jetty will be consisting of an operating platform, berthing dolphins, mooring dolphins and interconnecting walkway. These platform and dolphins will be RCC structures suitable for open sea, marine service.
- An unloading arm for receiving VCM from ships, pipeline manifold, control equipment, safety/leak detection arrangements etc. These facilities would be located on the operating platform.
- A set of sub sea pipelines for the following services.
 - A 10" or 12" line for main VCM transfer.
 - A 4" line for VCM Pre cooling and vapor return services.
 - A 12" line for seawater intake.
 - A 8" line for returning the seawater desalination plant concentrate.
- These sub sea pipelines (about 1.5 mts under the sea bed) will be laid with proper insulation and mechanical protection. The piping design would also take into effect stresses arising out of risers, temperature variation, buckling, buoyancy, sea bed erosion etc.

The MTF will be located off shore of Chitrapettai village. The landfall point will be at Chitrapettai, which is 2500 mts from the PVC plant. The total length of the pipelines onshore will be 3500 mts. The off shore pipelines and the on shore pipelines will be laid in a covered RCC trench and will be protected.

The project would involve the following activities permitted under Coastal Regulation Zone Notification.

- Construction of island jetty at 1000 mts from the shoreline.
- Laying of sub sea pipelines from jetty to landfall point.

Construction of port office with communication facilities.
Laying of onshore piping from landfall point through the Coastal Regulation Zone area and thereon to the plant.

The Tamil Nadu Maritime Board has already extended the Cuddalore Port limits to include the project area. The project area is covered by coordinates as below:-

Landward

Latitude 11°38'10" N and Longitude 79° 45' 50" E
Latitude 11°38'52" N and longitude 79° 45' 54" E

Seaward

Latitude 11°38'10" N and Longitude 79° 50' 48" E
Latitude 11°38'52" N and Longitude 79° 50' 48" E

Jetty location:

Latitude 10° 50' 56" N and Longitude 79° 52' 17" E

Landfall Point

Latitude 11° 38' 18.2" N and Longitude 79° 45' 55.1" E

The cost of the project is estimated to be Rs.50.00 crores.

Keeping in view the above facts, the proposal has been examined in the Ministry of Environment & Forests and environmental clearance under the provisions of Coastal Regulation Zone Notification, 1991 as amended from time to time is hereby accorded to this project subject to effective implementation of the following conditions:-

A. Specific Conditions:

- i) The unit should obtain No Objection Certificate from the Tamil Nadu State Pollution Control Board before commissioning of the jetty and the unit should comply with the norms prescribed by the Tamil Nadu State Pollution Control Board from time to time.
- ii) All the conditions stipulated by Environment and Forest Department, Government of Tamil Nadu vide their letter No.29436/EC.3/2005-1, dated 9.11.2005 and recommendations of the Tamil Nadu State Coastal Zone Management Authority in its meeting held on 17.10.2005.
- iii) The environmental and risk mitigation measures delineated in the Environmental Management Plan and Risk Analysis reports must be strictly implemented while executing and operating the project.
- iv) The details pertaining to the sludge disposal obtained from the desalination plant may be provided.
- v) Details pertaining to the model studies carried out for discharge of the brine from the desalination plant including the time taken for mixing may be provided.
- vi) The chemical characteristics of the sediments taken in the marine and Coastal Regulation Zone area may be provided.
- vii) The project authority may increase the depth of laying of underground and submarine pipelines taking into account the relevant International codes and practices.
- viii) Point wise clarifications/action plan on the issues raised in the public hearing (for the main project).
- ix) It should be ensured that the existing mangroves, if any, at the project site are not adversely affected due to the project activities.

- x) All the construction material sand, blue metal, moorram, etc. shall be obtained only from the authorized quarries.
- xi) The land pits shall be reclaimed immediately after the construction phase.
- xii) There shall be no withdrawal of ground water in CRZ area, for this project. The proponent shall ensure that as a result of the proposed constructions, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for this purpose at appropriate locations on the project site.
The project shall not be commissioned till the requisite water supply and electricity to the project are provided by the PWD/Electricity Department.
- xiv) The facilities to be constructed in the CRZ area as part of this project should be strictly in conformity with the provisions of the CRZ Notification, 1991 as amended subsequently.
- xv) Unloading arm and transfer line of VCM etc must be made leak proof and designed international standards. The transfer line should be completely emptied after every unloading in order to prevent any risk during standby conditions.
- xvi) Green buffer zone shall be provided all around the project area in consultation with local Forest Department and the report submitted to this Ministry's Regional Office at Bangalore.
Prior approvals from Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained before initiating the project.

B. General Conditions:

- (i) Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/Local rules and regulations including Coastal Regulation Zone Notification 1991 and its amendments. All the construction designs / drawings relating to the proposed construction activities must have approvals of the concerned State/UTs Government Departments / Agencies.
- (ii) Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction workers during the construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.
The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluents by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluents, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the Central/State Pollution Control Board/Committee and the Union Ministry of Environment and Forests under the Environment (Protection) Act, 1986, whichever are more stringent.
- (iv) The proponent should obtain the requisite consents for discharge of effluents and emissions under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 from the Tamil Nadu State Pollution Control Board before commissioning of the project and a copy of each of these shall be sent to this Ministry.
- (v) The proponents shall provide for a regular monitoring mechanism so as to ensure that the treated effluents conform to the prescribed standards. The records of analysis reports must be properly maintained and made available for inspection to the concerned State/Central officials during their visits.
In order to carry out the environmental monitoring during the operational phase of the project, the project authorities should provide an environmental laboratory well equipped with standard equipment and facilities and qualified manpower to carry out the testing of various environmental parameters.
- (vii) The sand dunes and mangroves, if any, on the site should not be disturbed in any way.

- (viii) A copy of the clearance letter will be marked to the concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.
- (ix) The Tamil Nadu State Pollution Control Committee 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.
- (x) 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's Regional Office at Bangalore and the State Pollution Control Board/Committee.
- (xi) Full support should be extended to the officers of this Ministry's Regional Office at Bangalore 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.
- (xii) 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.
- (xiii) 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.
- (xiv) 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.
- (xv) 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/Committee and may also be seen at Website of the Ministry of Environment & Forests at <http://www.envfor.nic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.
- (xvi) The Project proponents should inform the Regional Office at Bangalore 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.

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 and its subsequent amendments 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 Tamil Nadu and the Supreme Court's order dated 18th April, 1996 in the Writ Petition No.664 of 1993 to the extent the same are applicable to this proposal.


(C. Senthil Vel)
Additional Director

To

Shri P. S. Jayaraman,
Managing Director,
M/s Chemplast Sanwar Limited,
9, Cathedral Road, Chennai - 600 086.

Copy to:

- The Chief Conservator of Forests, Ministry of Environment & Forests, Government of India, Regional Office (SR), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, I Block, Koramangala, Bangalore-560 034.
- 2 The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum- Office Complex, East Arjun Nagar, Delhi -110 032.
 - 3 The Member Secretary, Tamil Nadu State Pollution Control Board, 100, Anna Salai, Chennai - 600 032.
 - 4 Director (EI), Ministry of Environment and Forests.
 - 5 The Regional Office Cell, MoEF.
 - 6 Guard File.
 - 7 Monitoring File.


(A. Senthil Vel)
Additional Director