

**Chemplast Sanmar Limited**  
**Marine Terminal Facility, Chitrapettai Village**  
**Cuddalore District, Tamil Nadu**

**Compliance Report for Environmental Clearance No.11.63/2005.1A.III**  
**dated 19.12.2005**

**Specific Conditions**

| <b>S.No.</b> | <b>Specific Conditions</b>   | <b>Compliance status</b>   |
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| 1            | The unit should obtain No Objection Certificate from the TNPCB before commissioning of the jetty and the unit should comply with the norms prescribed by the TNPCB from time to time.  | Consent to operate was obtained from Tamil Nadu Pollution Control Board (TNPCB) under Water act (vide consent order No.21785 dated 31.03.2009 and Air Act (vide consent order No.17824 dated 31.03.2009). before commissioning of the jetty.<br><br>Subsequently the Consent order for the operation of the plant under Air & Water Act is being renewed from time to time. Unit is having a valid consent to operate upto 31.03.2017. |
| 2            | All the conditions stipulated by Environment and Forest Department, Govt. of Tamil Nadu vide letter No.29436/EC/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. | All the conditions stipulated by Environment & Forest Department, Government of Tamil Nadu and recommendation of Tamil Nadu State Coastal Zone Management Authority was incorporated and implemented.  |
| 3            | The Environmental and risk mitigation measure delineated in the Environmental Management Plan and Risk analysis reports must be strictly implemented while executing and operating the project.  | Environmental and risk mitigation measures delineated in the Environmental Management Plan and Risk analysis reports are implemented.  |
| 4            | The details pertaining to the sludge disposal obtained from the desalination plant may be provided.  | Hazardous waste renewal authorization No.16HRC6581200 dated 21.12.2016 is valid up to 20.12.2021 was obtained from Tamil Nadu Pollution Control Board for the disposal of sludge from desalination plant.<br><br>As per TNPCB direction, desalination plant sludge is disposed off at common disposal facility of TNWML at Gummudipondi.   |

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| 5    | 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.   | National Institute of Ocean Technology (NIOT) carried out the Dispersion Model studies for discharge of the brine from the desalination plant. Copy of the report was already submitted vide letter No.CSL/MoEF/832 dated 24 August 2009.  |
| 6    | The chemical characteristics of the sediments taken in the marine and Coastal Regulation zone area may be provided.   | Chemical characteristics of the sediments in the marine and Coastal Regulation Zone (CRZ) was studied by the Centre for Advanced Marine Biology Institute, Parangipettai, Cuddalore and the report was submitted to your office on 24 August 2009.   |
| 7    | The project authority may increase the depth of laying of underground and sub marine pipeline taking into account the relevant International codes and practices. | <p>VCM underground and sub marine pipeline was laid as per International code and practices of DNV Standards.</p> <p>VCM underground pipeline is laid offshore at a depth of 3.0 meters from seabed and onshore pipeline was laid in a concrete trench at a depth of 1.5 meters from ground level.</p>   |
| 8    | Point wide clarification/action plan on the issue raised in the public hearing (for the main project).  | <p>Point wise clarification/action raised in the public hearing for the main project as follows:</p> <p>1. Ground water usage and effluent disposal.<br/>Reply: No ground water is used and the entire water requirements are met through Desalination Plant. Total effluent is recycled through "Zero liquid discharge facility".</p> <p>2. Dioxin release<br/>Reply: No combustion process is involved during the production of PVC and hence no dioxin emission possible.</p> <p>3. Job opportunities<br/>Reply: About 2000 labours were engaged during the construction phase and also about 50 people are employed directly during operational phase.</p> |
| 9    | It should be ensured that the existing mangroves, if any, at the project site are not adversely affected due to the project activities.                           | Mangroves/Vegetation are not available in the project area and nearby vicinity.  |
| 10   | All the construction material sand, blue metal, moorram etc. shall be obtained only from the authorized quarries.   | All the construction materials like sand, blue metal moorram etc are procured from authorized quarries during construction of the project.   |

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| 11   | The land pits shall be reclaimed immediately after the construction phase.   | All the land pits were reclaimed after the completion of construction.   |
| 12   | 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 construction, ingress of saline water into ground water does not take place. Piezometers shall be installed for regular monitoring for the purpose at appropriate locations on the project site. | Ground water is not drawn in the CRZ zone for the project.<br>Two piezometric sampling well is available near the Port Control Building to monitor the ground water quality.<br><br>Tamil Nadu Pollution Control Board collects water samples from these piezometric wells once in three months and the results are within the limits. |
| 13   | The project shall not be commissioned till the PWD/Electricity Department provides the requisite water supply and electricity to the project.  | The jetty was commissioned only after getting power supply from Tamil Nadu Electricity Board (TNEB).   |
| 14   | 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.   | All the construction activities of Marine Terminal Facility (MTF) were carried out in conformity with the CRZ notification.  |
| 15   | 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.  | Leak proof unloading arm was installed as per American Standard for Mechanical Engineer (ASME).<br><br>Transfer line is being emptied after every unloading operation activity to prevent any risk during standby conditions.  |
| 16   | 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.   | Green belt development is in progress. About 5 acres of greenbelt will be developed in a phased manner.  |
| 17   | Prior approvals from Chief Controller of Explosives, Chief Inspectorate of Factories must be obtained before installing the project.   | <ul style="list-style-type: none"> <li>• No Objection Certificate obtained from Chief Controller of Explosives, Nagpur. Lr.No.G.22 (47) 172 dated 27.08.2008.</li> <li>• Factory Licence No.CDR 1114 obtained from Inspector of Factories, Cuddalore and valid upto 31.12.2017.</li> </ul>   |

**Environmental Clearance No.11.63/2005.1A.III dated 19.12.2005**

**General Conditions**

| <b>S.No</b> | <b>General Conditions</b>  | <b>Compliance status</b>   |
|-------------|--|--|
| 1           | Construction of the proposed structures should be undertaken meticulously conforming to the existing Central/Local rules and regulations including coastal Regulation zone Notifications 1991 and its amendments. All the construction design/ drawings relating to the proposed construction activities must have approvals of the concerned state/UTs government department/ Agencies.   | All the construction activities were carried out conforming to the Central/Local rules and regulations including CRZ notifications.<br><br>The construction activities were carried out as per approvals of Director General of Shipping, (DG Shipping), Navigation Safety and Port Committee (NSPC).  |
| 2           | Adequate provisions for infrastructure facilities such as water supply, fuel, sanitation etc. should be ensured for construction phase of the project so as to avoid felling of trees/mangroves and pollution of water and the surroundings.   | Adequate provisions were provided for water supply, sanitation and fuel during the construction phase of the project.<br><br>No mangroves in the project area/vicinity.  |
| 3           | The project authorities must make necessary arrangements for disposal of solid wastes and for the treatment of effluent by providing a proper wastewater treatment plant outside the CRZ area. The quality of treated effluent, solid wastes and noise level etc. must conform to the standards laid down by the competent authorities including the CPCB/ TNPCB/ MOEF under the Environment (protection) Act, 1936, whichever are more stringent. | The operation involves only unloading of VCM from ship to shore and no other activity is carried out at the site<br><br>Hence, there is no effluent and solid waste generation at Marine Terminal Facility.  |
| 4           | The proponent should obtain the requisite consent for discharge effluent and emission under the Water (Prevention and Control of Pollution) Act, 1974, and the Air (Prevention and Control of Pollution) Act, 1981 from the TNPCB before commissioning of the project and copy of each of these shall be sent to this Ministry.  | Consent to operate was obtained from Tamil Nadu Pollution Control Board (TNPCB) under Water act (vide consent order No.21785 dated 31.03.2009 and Air Act (vide consent order No.17824 dated 31.03.2009). before commissioning of the jetty.<br>Subsequently the Consent order for the operation of the plant under Air & Water Act is being renewed from time to time. Unit is having a valid consent to operate upto 31.03.2017. |
| 5           | The proponents shall provide for a regular monitoring mechanism so as to ensure that the treated effluent 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.   | There is no effluent generation at MTF. Hence monitoring of effluent will not arise.<br><br>Ground water sample is collected every month and analyzed through NABL/MoEF approved lab. The results are within the limit of drinking water standards.<br><br>Marine Water sample is collected every month and analyzed through NABL/MoEF approved lab.   |

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| 6  | 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.   | Environmental Monitoring Cell is appointed with sufficient technical staff for continuous monitoring of various environmental parameters.<br>Well-equipped environmental laboratory is in place in the main plant to cater regular monitoring of ambient, stack and water quality. |
| 7  | The sand dunes and mangroves, if any, on the site should not be disturbed in any way.  | There is no sand dunes and mangrove in the project area/ vicinity.   |
| 8  | A copy of clearance letter will be marked to the concerned Panchayat /local NGO, if any, from whom any suggestion/representations has been received while processing the proposal.   | Copy of clearance letter already forwarded to concerned Panchayat/local NGO.   |
| 9  | The TNPC 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.   | Copy of clearance letter was displayed at the Regional Office and Collector's Office.  |
| 10 | The funds earmarked for environmental 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 expenditures on environmental safeguards should be reported to this Ministry's Regional Office at Bangalore and the TNPCB/committee.  | Funds earmarked for environmental protection is only used for Environmental improvements.<br><br>The expenditure on Environmental protection for the year 2016-17 is about Rs.3.20 Crores.   |
| 11 | Full support should be extended to the officers of this Ministry's regional Office at Bangalore and the officers of the CPCB/TNPCB by the project proponents during their inspection for monitoring purpose, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities. | Full support is being extended during site inspection of MoEF/ CPCB/TNPCB officials.<br><br>Necessary documents/details including status report is being furnished during the site inspection.   |
| 12 | 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.   | Noted for action.  |
| 13 | This ministry reserves the right to revoke this clearance, if any of the conditions stipulated are not complied with to the satisfaction of this Ministry.   | Project activities was completed and Marine Terminal is in operation since 2009.   |
| 14 | 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.  | New conditions towards protection of environment by any competent authority will be complied with.   |

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| 15 | <p>The Project proponent should inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with TNPCB. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional Office.</p> | <ul style="list-style-type: none"> <li>• Copy of clearance letter already furnished to TNPCB.</li> <li>• The advertisement was given in the widely circulated newspapers in English and local vernacular language.</li> </ul> |
| 16 | <p>The project Authorities 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 commencing the land development work.</p>   | <p>Date of Financial Closure: Feb 2007.</p> <p>Date of commencement of construction: July 2007.</p> <p>Date of Commissioning of the MTF: 24 July 2009.</p>  |