

EC CONDITIONS COMPLIANCE REPORT FOR ASIAN PAINTS ,PENTA DIVISION
APRIL-2014 TO SEPTEMBER-2014

Sub: Increase in Production of Pentaerythritol (from 450 MTPM to 560 MTPM) and Sodium Formate (275 MTPM to 336 MTPM) in existing Unit of M/s Asian Paints Limited at Plot No. B5-B10, Sy. No. 126-131, 137 & 165 at Sipcot Industrial Estate, Village Kudikadu, Mandal & District Cuddalore, Tamil Nadu - Environmental Clearance reg.

| S.No. | EC Specific Conditions | Compliance Status |
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| i | *Compliance to all the specific and general conditions mentioned in the existing environmental clearance letter no. SEIAA/TN/EC/1(d)/001/F-01/2008 dated 22 nd July, 2008 and letter no. SEIAA/TN/EC/5(f)/005/F-1 17/2009 dated 9 th July, 2009 shall be ensured. | All the specific and general conditions mentioned in the existing environmental clearance are being complied with. |
| ii | Bag filter shall be provided to coal fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/TNPCB guidelines. | Bag filter are provided to coal fired boiler and control particulate emissions are well within the permissible limit. The gaseous emissions are being dispersed through stack of adequate height as specified by the CPCB/TNPCB guidelines. Our boiler stack emissions are online connected to CARE Centre, TNPCB. Complied with. |
| iii | Vapour emissions from the process vents shall be controlled by installation of suitable scrubbers and condensers. The scrubbed water shall be sent to ETP for further treatment, Efficiency of scrubber shall be monitored regularly and maintained properly. Scrubbers vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. At no time, the emission levels shall go beyond the prescribed standards. The system shall be interlocked with the pollution control equipments so that in case of any increase in pollutants beyond permissible limits, plant shall be automatically stopped. Stack monitoring shall be done regularly and report shall be submitted to Tamil Nadu Pollution Control Board (TNPCB) and the Ministry's regional office at Bangalore. | Vapour emissions from the process vents are controlled by installation of suitable scrubbers. The scrubbed water is reused in the process. Efficiency of scrubber are monitored and maintained regularly. Scrubbers vent are provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters. The pollution control equipments are interlocked so that in case of any increase in pollutants beyond permissible limits, plant will get automatically stopped. Stack monitoring are done regularly and report are submitted to TamilNadu Pollution Control Board (TNPCB) and the Ministry's regional office at Bangalore. Being adhered. |



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| iv | <p>Ambient air quality data shall be collected as per NAAQS standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM₁₀, SO₂, NO_x, CO, VOC and HC (Methane and Non-methane) shall be monitored in the ambient air and emissions from the stacks and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the Tamil Nadu Pollution Control Board (TNPCB).</p> | <p>Ambient air quality as per NAAQS standard, VOC & HC is being monitored regularly by internal lab, also quarterly by third parties and half yearly by TNPCB lab.</p> <p>The data's are uploaded in company website also sent to RO MOEF & TNPCB.</p> <p>Being adhered.</p> |
| v | <p>In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the TNPCB.</p> | <p>Fugitive emissions in the work zone environment, product, raw materials storage area etc. are monitored regularly and the emissions are well within the limits stipulated by the TNPCB.</p> <p>Being adhered.</p> |
| vi | <p>Online VOCs detectors shall be installed in the work zone. When monitoring results indicate the levels above the permissible limits, effective measures shall be taken immediately.</p> | <p>Online VOCs detectors are installed in the work zone and in case of deviation system of alarming prevails for taking effective action immediately. Complied with.</p> |
| vii | <p>For further control of fugitive emissions, following steps shall be followed :</p> <ol style="list-style-type: none"> Closed handling system shall be provided for chemicals. Reflux condenser shall be provided over reactor. System of leak detection and repair of pump/pipeline based on preventive maintenance. The acids shall be taken from storage tanks to reactors through closed pipeline. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation. Cathodic protection shall be provided to the underground solvent storage tanks. | <ol style="list-style-type: none"> Chemicals are handled under closed system. Reactor vent is connected to suction of Formaldehyde plant blower. Leak detection and repair system of pump/pipeline is being done regularly. Aldehydes and other chemical lines are connected to reactor through closed pipe line. No acid is handled in reaction. All the solvent storage tanks are connected to suction of Formaldehyde blower. We do not store solvent underground. <p>Whichever is applicable is being adhered.</p> |



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| viii | The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. | The gaseous emissions from DG set are dispersed through adequate stack height as per CPCB standards. Acoustic enclosure is provided to the DG sets to mitigate the noise pollution. Complied with. |
| ix | Total fresh water requirement from SIPCOT water supply shall not exceed 695 m ³ /day and prior permission shall be obtained from the Competent Authority and a copy submitted to the Ministry's Regional Office at Bangalore. No ground water shall be used. | No ground water is used. Complied with. |
| x | Total industrial wastewater generation shall not exceed 161 m ³ /day. Industrial effluent shall be treated in ETP followed by Reverse Osmosis. Treated effluent shall be recycled/reused within factory premises after achieving desired water quality for various purposes. Rejects from RO shall evaporated in MEE followed by ATFD. Sewage shall be treated in STP. No effluent shall be discharged outside the factory premises and 'Zero' discharge concept shall be adopted. | Treated effluent after achieving desired water quality is reused within factory premises. Rejects from RO are evaporated in MEE followed by ATFD. We are in process of installing STP, at present it is treated in the existing aerator. No effluent is discharged outside the factory premises. Complied with |
| xi | Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond. | Process effluent /wastewater are not allowed to mix with storm water drain. Online pH & TDS meters are available in storm water drain to ensure the quality of storm water in storm water drain. Complied with. |
| xii | As proposed. MEE/ATFD salt and ETP sludge shall be sent to the TSDF. Spent catalyst/ resin and spent oil shall be sent to authorized recycler/re-processor. | Being adhered. |
| xiii | The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from TNPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. | Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 is available till 2016 is available. In case of emergency facilities for fire fighting is available. Complied with. |
| xiv | The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA). 1989. | Being adhered. |

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| xv | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms. Fire hydrant system shall be provided along with fire monitor and flame detection system in the process as well as storage areas. | Fire fighting system as per the norms available. Complied with. |
| xvi | The company shall comply with the recommendations made in the EIA/EMP/Risk assessment report. Risk assessment shall be included in the safety Manual. | Complied with. |
| xvii | Proper spillage control management plan should be prepared and implemented. | Being adhered. |
| xviii | Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. | Complied with. |
| xix | As proposed, greenbelt shall be developed in 15.7 acres out of total plant area 29.2 acres. Selection of plant species shall be as per the CPCB guidelines | Complied with. |
| xx | The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/procedure to bring into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders. | Being adhered. |
| xxi | Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment. | Our's is a running plant and no construction is carried out hence not applicable. |



**GENERAL CONDITIONS COMPLIANCE STATUS FOR ASIAN PAINTS, PENTA
DIVISION APRIL-2014 TO SEPTEMBER-2014**

| S.No. | General Conditions | Compliance Status |
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| i | The project authorities shall strictly adhere to the stipulations made by the T.N. Pollution Control Board. | We are adhering to the stipulation made by TNPCB. Being adhered. |
| ii | No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | Being adhered |
| iii | The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated. | We have two permanent ambient air quality monitoring stations installed in the upwind and downwind direction as per the direction received from the TNPCB. Being adhered |
| iv | The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers; enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). | The overall noise levels in and around the plant area are kept well within the standards. Being adhered |
| v | The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water. | Rainwater harvesting facilities from the roof tops of the buildings and storm water drains to recharge the ground water are available. Complied with. |

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| vi | Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted. | Periodic training on safety and health aspects of chemical handling are done. Routine periodical medical examinations for all employees are undertaken once in ever year. Complied with. |
| vii | Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured. | Being adhered |
| viii | The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented. | Being adhered |
| ix | The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration. | As a part of our routine CSR activities Scholarship to the students, EB bill & Teachers Salary being paid every year to the adopted Government Hr.Sec.School in nearby village, Kudikadu. Complied with. |
| x | The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. | Being done |
| xi | A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. | Complied with. |
| xii | The company shall earmark sufficient funds toward capital cost and recurring cost/annum to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose | Being Adhered. |



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| xiii | A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any from who suggestions/ representations, if any, were received while processing the proposal. | Complied with |
| xiv | The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the T.N. Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company. | Six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data are submitted regularly. |
| xv | The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted 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 environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail. | The Environmental Statement for the financial year ending 31st March 2014 in Form - V has been submitted for the years 2013-14 vide Lr.No. APL/CDL/ TNPCB/ 029/ 2014-15 dated 26/06/2014 to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently. The status of compliance of EC conditions and Form V was sent to the Regional Office of MoEF, Bengaluru. Complied with. Environmental Statement is displayed in the company's website www.asianpaints.com |
| xvi | The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall 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 shall be forwarded to the concerned Regional Office of the Ministry. | We have advertised in two local newspapers (Dinamalar & The Hindu) which are widely circulated in the region, one of which in the vernacular language (in Dinamalar)informing the public that i. The project has been accorded Environmental Clearance. ii. Copies of Clearance letters are available with the Tamil Nadu Pollution Control Board. Complied with. |
| xvii | The project authorities 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 the project | Complied with. |

