

**Tagros Chemicals India Private Limited  
Cuddalore-5**

**Compliance Report of Environment Clearance (MOEF)**

**F.No. J-11011/453/2008-IA-II (I)**

**Proposal No. IA/TN/IND2/143725/2019**

**Dated: 28<sup>th</sup> May 2020.**

A	Specific Conditions	
(i)	Consent to Establish/Operate (CTE/CTO) for the project shall be obtained from the State Pollution Control Board (SPCB) as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974, and the SPCB shall follow the mechanism/protocol issued by the Ministry vide letter no. Q-16017/38/2018-CPA dated 24 <sup>th</sup> October, 2019 and forwarded by Central Pollution Control Board vide letter dated 25 <sup>th</sup> October, 2019 to the SPCB's, while issuing the CTE/CTO for the project, for improvement of environmental quality in the area.	<p>1. We obtained Consent to Establishment from Tamilnadu pollution control board. The CONSENT ORDER NO. 2006234286152 DATED: 03/012/2020) The same is attached as <b>Annexure – 1</b>.</p> <p>2. We have submitted Consent to operate application to Tamilnadu pollution control board through online consent management &amp; monitoring system. The application No is 37645903 on dated 24.03.2021.</p>
(ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.	<p>a) As We committed, We have provided required effluent treatment system for treatment of generating effluent from our industry and we are ensuring Zero Liquid Discharge.</p> <p>b) We never discharge waste/treated water outside of the premises.</p>
(iii)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	<p>We Have Hazardous waste authorisation for our existing operation. The existing Hazardous waste authorisation details as follows.</p> <p>1) The Authorization No. 19HFC14751045 dated 03/01/2019. Valid up to: 02.01.2024.</p> <p>We are assuring that we will get required Necessary Hazardous waste authorization after obtaining the consent to operate.</p>
(iv)	National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vide G.S.R.446(E) dated 13 <sup>th</sup> June, 2011, as amended from time to time, shall be followed.	<p>We are following the National Emission Standards for Pesticides Manufacturing Industry issued by the Ministry vid es G.S.R.446 (E) dated 13<sup>th</sup> June, 2011. We checking the same by third party lab and report is attached as <b>Annexure - 2</b>.</p>
(v)	No pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD <sub>50</sub> <100 mg/kg shall be produced. Also, no raw material/solvent prohibited by the concerned regulatory authorities from time to time, shall be used for production of pesticides.	<p>We assure and never produce banned pesticides/chemicals banned by the Ministry of Agriculture and Farmers Welfare, or having LD<sub>50</sub>&lt;100 mg/kg. Also we are not use raw material/solvent prohibited by the concerned regulatory authorities from time to time.</p>
(vi)	To control source and the fugitive emissions (at 99.98%), suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	<p>We have provided Air Pollution Control measures for the proposed expansion, All stacks are provided, process vents are provided with Two Stage (water scrubber followed by alkali scrubber) followed by absorbers after that adequate height stacks provided.</p>

(vii)	<p>Solvent management shall be carried out as follows:</p> <p>(a) Reactor shall be connected to chilled brine condenser system.</p> <p>(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.</p> <p>(c) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>(d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>(e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>(f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.</p>	<p>We are carrying out Solvent management for our existing process and following for our proposed operations.</p> <p>(a) All recovery Reactors were connected to chilled brine condenser system.</p> <p>(b) All Reactor and solvent handling pumps having mechanical seals to prevent leakages.</p> <p>(c) All Solvents are storing in a separate space specified with all safety measures with lock and key system.</p> <p>(d) Double earthing provided in all electrical equipment's wherever handling of solvents.</p> <p>(e) Flame proof equipment provided in plant area and The solvent storage tanks provided with breather valve to prevent losses.</p> <p>(f) All the solvent storage tanks connected with vent condensers with chilled brine circulation for VOC emission control. Photos attached as <b>Annexure-3</b></p>
(viii)	<p>Total fresh water requirement shall not exceed 794 cum/day and will be met from SIPCOT Water supply. Prior permission in this regard shall be obtained from the concerned regulatory authority.</p>	<p>We will follow the Total fresh water requirement with in the requested quantity of 794 cum/day and we will meet the water requirement from SIPCOT Water supply.</p> <p>We got Prior permission for the fresh water requirement from SIPCOT. The copy of the fresh water permission from SIPCOT is attached as <b>Annexure -4</b></p>
(ix)	<p>Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system</p>	<p>We are not allowing Our Process effluent/any wastewater to mix with storm water. The storm water from the premises is collecting and discharged through a separate conveyance system.</p>
(x)	<p>Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and solvent transfer through pumps.</p>	<p>1) We are storing Hazardous chemicals in the storage tanks, tank farms, drums, carboys etc provided with authorised persons entry only.</p> <p>2) Flame arresters provided on tank farm and solvent transfer through pumps. Photos attached as <b>Annexure-3</b></p>
(xi)	<p>Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic &amp; evaporation salt shall be disposed off to the TSDF.</p>	<p>1) Process organic residue is sending to Tamilnadu waste management limited at Gummidipoondi for incineration and co-processing in Chettinad cements industry.</p> <p>2) ETP sludge, process inorganic &amp; evaporation salt disposing off to the TSDF (Tamilnadu waste management limited at Gummidipoondi).</p>
(xii)	<p>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, 1989.</p>	<p>1) We are strictly complying with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time.</p> <p>2) We are transporting of Hazardous Chemicals as per the Motor Vehicle Act, 1989.</p>

(xiii)	<p>The company shall undertake waste minimization measures as below:-</p> <p>(a) Metering and control of quantities of active ingredients to minimize waste.</p> <p>(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</p> <p>(c) Use of automated filling to minimize spillage.</p> <p>(d) Use of Close Feed system into batch reactors.</p> <p>(e) Venting equipment through vapour recovery system.</p> <p>(f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.</p>	<p>We are under taking waste minimization measures as below for our existing process and will implement for our proposed process also.</p> <p>(a) Standard and measured quantity of raw materials we are charging and we are continuously working on yield improvement and waste reduction.</p> <p>(b) We are getting by-products of Hydrochloric acid and sodium sulphite solution using scrubbing system, HCL we are recycling and Sodium sulphite and other by-products from the process are selling to the vendors for material substitutes in their processes.</p> <p>(c) We are using online weighing balance for filling our products to minimize spillage.</p> <p>(d) We are adopting Close Feed system into our batch reactors.</p> <p>(e) We provided Venting equipment through vapour recovery system.</p> <p>(f) We are Using high pressure hoses and spray balls for equipment cleaning and also reduced</p>
(xiv)	<p>The green belt of at least 5-10 m width shall be developed in not less than 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. In addition, the project proponent shall develop greenbelt outside the plant premises also such as avenue plantation, plantation in vacant areas, social forestry etc.</p>	<p>We have already developed green belt in an area of 33 % out of total area of the project. Additionally, green belt developed in 3 Acres of OSR land within the SIPCOT area to fulfill the committee suggested developing green belt in 40 % of area. Photograph of existing green belt is attached as <b>Annexure -5</b></p>
(xv)	<p>As committed, fund allocation for the Corporate Environment Responsibility (CER) shall be Rs. 7 crore. The CER plan shall be completed within two years and activities as proposed like drinking water supply to nearby villages etc. shall be implemented.</p>	<p>As we committed, fund allocation for the Corporate Environment Responsibility (CER) will be Rs. 7 crore. The CER plan completed within two years and CER plan Attached as <b>Annexure - 6</b></p>
(xvi)	<p>Safety and visual reality training shall be provided to employees.</p>	<p>Safety and visual/virtual reality training providing to the employee periodically. Photos are attached as <b>Annexure-7</b></p>
(xvii)	<p>For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.</p>	<p>Our existing DG sets, emission in the limits and the stack height as per CPCB guidelines. Acoustic enclosure provided to our 2000KVA DG set for controlling the noise pollution (we are in the proposal to provide Acoustic enclosure for remaining two DG sets 2 X 1500) and we provided in separate closed shed.</p>
(xviii)	<p>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.</p>	<p>We made the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system provided as per the norms. We provided 225 nos of fire extinguishers, 33 fire hydrant points and fire buckets. And fire fighters available round the clock. Fire protection details are attached as <b>Annexure-8</b></p>

(xix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	<ul style="list-style-type: none"> <li>❖ We are conducting master health check-up for all employees through Aarupadai Veedu Medical College and Hospital, Pondicherry.</li> <li>❖ During master health check-up the following test are carried out <ul style="list-style-type: none"> <li>➤ History</li> <li>➤ General Examinations</li> <li>➤ Vision Test</li> <li>➤ ENT Examinations.</li> <li>➤ Systemic Examinations(Cardiovascular System, Respiratory system examination, Abdominal Examination, Central Nervous System Examination,Extremities,spine, X-ray, PFT, ECG, BMD and clinical laboratory assessment.</li> </ul> </li> </ul> <p>We are conducting Premedical examination to the new joiners and also annual medical examination to our employees periodically. Agreement attached as <b>Annexure – 9</b></p>
(xx)	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.	<p>1. We provided Continuous online (24x7) monitoring system for stack emissions for measurement of flue gas discharge and the pollutants concentration, and the data is transmitting to the CPCB and SPCB server.</p> <p><b>Online connectivity Stack details which is transmitting to CPCB and SPCB:</b></p> <ol style="list-style-type: none"> <li>1. Coal Boiler – Particulate matter &amp; SO2</li> <li>2. Wood Boiler – Particulate Matter</li> <li>3. Scrubber – SO2</li> <li>4. Admin Building – VOC</li> <li>5. IB Yard – 1 - VOC</li> <li>6. IB Yard – 2 - VOC</li> <li>7. Store Opposite - VOC</li> <li>8. Chlorine yard –Total Chlorine</li> </ol> <p>2. We installed web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.</p> <p>Photos of camera attached as <b>Annexure - 10</b></p>
(xxi)	Mitigating measures suggested during process safety and risk assessment studies shall be undertaken by advance model accordingly.	We are taking Mitigating measures suggested during process safety and risk assessment studies. Compliance report attached as <b>Annexure - 11</b>
<b>B</b>	<b>General Conditions</b>	
(i)	The Project Proponent shall obtain all other statutory/necessary permissions/recommendations/NOCs prior to start of construction/operation of the project, which inter alia include, permission/approvals under the Forest (Conservation) Act, 1980; the Wildlife (Protection) Act, 1972; the Coastal Regulation Zone Notification, 2019, as amended from time to time, and other Office Memoranda/Circular issued by the Ministry of Environment, Forest and Climate Change from time to time, as applicable to the project.	We obtained all other statutory/ necessary permissions/recommendations/NOCs prior to start of construction/operation of the project. Construction approval obtained from Directorate of Industrial Safety and Health, the copy of approval is attached as <b>Annexure - 12</b>

(ii)	The project proponent shall ensure compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. The project proponent shall also abide by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution.	We are ensuring compliance of 'National Emission Standards', as applicable to the project, issued by the Ministry from time to time. We abiding by the rules/regulations issued by the CPCB/SPCB for control/abatement of pollution. The Parameters are 1. Particulate matter (PM 2.5 and PM10), 2.SO <sub>2</sub> , 3. NO <sub>2</sub> , 4. Ozone, 5.Lead, 6.Carbon monoxide, 7 Ammonia, 8.Arsenic, 9. Nickel, 10.Benzene, 11. Benzo(a)pyrene. The Results are within the limit. Report attached as <b>Annexure. - 13</b>
(iii)	The project authorities shall adhere to the stipulations made by the State Pollution Control Board/Committee, Central Pollution Control Board, State Government and any other statutory authority.	We adhered to the stipulations made by the State Pollution Control Board/Committee, Central Pollution Control Board, State Government and any other statutory authority.
(iv)	The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-1 species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.	Our Company (Study area) is located in SIPCOT industrial complex area.
(v)	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. 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.	Without prior approval of the Ministry of Environment, Forest and Climate Change we will not made further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments.
(vi)	The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.	We were changed to LED based lights for our plant. Photos attached as <b>annexure 14</b>
(vii)	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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	The locations of ambient air quality monitoring stations decided in consultation with the State Pollution Control Board (SPCB) and ensured that each one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated. Periodic checking by the TNPCB and MOEF approved third party.
(viii)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 <sup>th</sup> November, 2009 shall be followed.	We are following the National Ambient Air Quality Emission Standards. And report is attached as <b>Annexure - 13</b>
(ix)	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	We are keeping the overall noise levels in and around the plant area 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 within the standards prescribed under Environment

	Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	(Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). And report is attached as <b>Annexure - 15</b>
(x)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.	We are harvesting rainwater from the roof tops of the possible areas to recharge the ground water. Photos attached as <b>Annexure - 16</b>
(xi)	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.	Training are imparting to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees undertaking on regular basis. Training photos attached as <b>Annexure-17</b>
(xii)	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, and risk mitigation measures relating to the project shall be implemented.	We are complying 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, and risk mitigation measures to the project implemented.
(xiii)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.	We are undertaking all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities are undertaking by involving local villages and administration and being implementing.
(xiv)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	We are undertaking eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. Desilting of lakes photo <b>Annexure - 18</b>
(xv)	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	We are having separate Environmental Management Cell and equipped with full-fledged laboratory facilities set up to carry out the Environmental Management and Monitoring functions. Environment Management cell organogram attached as <b>Annexure-19. And photos of laboratory attached Annexure - 20</b>
(xvi)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change 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.	We earmarked sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. We are ensuring that the funds earmarked for environment management/ pollution control measures will not be diverted for any other purpose.
(xvii)	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	We submitted a copy of the clearance letter to concerned Panchayat, Urban local Body and the local NGO.
(xviii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated	We are submitting six month reports on the status of compliance of the stipulated Environmental

	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&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB.
(xix)	The environmental statement for each financial year ending 31 <sup>st</sup> 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&CC by e-mail.	We are submitting the environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V to the concerned State Pollution Control Board. We will display on the website of the company along with the status of compliance of environmental clearance conditions and we are sending the same to the respective Regional Offices of MoEF&CC by post we will send the same by e-Mail.
(xx)	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 and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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 informed through the advertisement in the newspaper to the public that the project has been accorded environmental clearance by MOEF. Copy of Newspaper advertisement attached as <b>Annexure 21</b> .
(xxi)	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.	We have informed to 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.
(xxii)	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	We Adhered.