

**Tata Chemicals Limited, Mithapur (Gujarat)**

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/66/1999- IAll (I)**

**Dated 18th June, 2019**

S.No.	Compliance of terms and Conditions	Compliance Status (March'2020)
<b>23</b>	The committee observed that the Stage-I Forest Clearance for 'diversion of 11.268 ha Protected/Section-4 Forest land for 2504 meter long and 45 m wide wastewater pipeline in Mithapur in favour of General Manager, M/s Tata Chemicals Ltd Mithapur in Devbhumi Dwarka District in Gujarat' has been issued vide letter No.6-GJC 071/2018-BHO/178 dated 22.02.2019. After detailed deliberations, the committee recommended the proposal for Environmental Clearance with the following specific and general conditions:	
<b>I.</b>	<b>Monitoring of compliance</b>	
i.	The project proponent shall comply the conditions of Stage-I Forest Clearance obtained Forest (Conservation) Act, 1986 vide letter No.6- GJC 071/2018-BHO/178 dated 22.02.2019.	Noted. There is no forest land involved in expansion of cement production capacity within existing plant premises. However, Stage-I Forest Clearance obtained under Forest (Conservation) Act, 1986 vide letter No.6-GJC 071/2018 BHO/178 dated 22.02.2019 is for upgradation of treated waste water single discharge system of existing Industry complex (Soda ash, Captive Power, cement, Chlor-alkali and bromine plant). TCL shall comply the conditions of Stage-I Forest Clearance.
ii.	The project proponent shall obtain the recommendation of National Board for Wildlife for the expansion project, if required as per the Ministry's Office Memorandum dated 2nd December, 2009.	There is no notified area involved in expansion of cement production capacity in existing complex. However, Wildlife approval is obtained vide letter No. WLP/32/B/1813-18/2017-18 dated 01.06.2017 for upgradation of treated waste water discharge system of existing Industry complex (Soda ash, Captive Power, Cement, Chlor-alkali and Bromine Plant).
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report.	Wildlife conservation plan prepared as a part of EIA Study is approved by the Chief Wildlife Warden vide letter no WLP/32/C/144-45/2018-19 dated 19.06.2018. Implementation report shall be submitted to the MoEF&CC.
iv.	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Company has obtained CTE No. 85533 dated 19.06.2017 for expansion project. Company has valid Consent to Operate for existing operations. The same shall be amended for expansion quantities.
v.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of	There shall be no withdrawal of Ground or surface water for the expansion of cement production capacity as the process is based

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	ground water/ from the competent authority concerned in case of drawl of surface water required for the project.	on dry technology.
vi.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Company has valid authorisation under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016. The same shall be amended for expansion quantities.
<b>II.</b>	<b>Air quality monitoring and preservation</b>	
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R. No. 612 (E) dated 25th S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories,	Continuous emission monitoring system is installed and connected to CPCB server. Calibration is done through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories as per CPCB guidelines.
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.	Ambient air quality including fugitive emissions are monitored quarterly through NABL approved Laboratory.
iii.	The project proponent shall install system carryout to Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	Ambient Air Quality is monitored for prescribed parameters including PM10, PM2.5, SO2 and NOx within and outside the plant area at six locations.  Continuous Ambient Air Quality monitoring Stations (3 Nos) are Installed as per CPCB guidelines.
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality /fugitive emissions to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Monthly Summary Report of following are enclosed: a. CEMS Report b. CAAQMS Report c. Manual Stack, Ambient Air & Fugitive Emission Report.

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v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Air Pollution Control (APC) systems are provided in following units of Cement plant as per prescribed emission norms:																											
		<table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Section</th> <th>APC System</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Raw Mill &amp; Kiln</td> <td>Bag-filters</td> </tr> <tr> <td>2.</td> <td>Old Coal Mill</td> <td>Bag-filters</td> </tr> <tr> <td>3.</td> <td>New Coal Mill</td> <td>Bag-filters</td> </tr> <tr> <td>4.</td> <td>Cement Mill</td> <td>Bag-filters</td> </tr> <tr> <td>5.</td> <td>Dryer Crusher</td> <td>Bag-filters</td> </tr> <tr> <td>6.</td> <td>Cooler</td> <td>ESP</td> </tr> <tr> <td>7.</td> <td>Alkali Bypass</td> <td>Bag-filters</td> </tr> <tr> <td>8.</td> <td>Cement Plant Packers</td> <td>Bag-filters</td> </tr> </tbody> </table>	Sr. No.	Section	APC System	1.	Raw Mill & Kiln	Bag-filters	2.	Old Coal Mill	Bag-filters	3.	New Coal Mill	Bag-filters	4.	Cement Mill	Bag-filters	5.	Dryer Crusher	Bag-filters	6.	Cooler	ESP	7.	Alkali Bypass	Bag-filters	8.	Cement Plant Packers	Bag-filters
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vi.	The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.	Bag filters with mechanised bag cleaning facilities are provided in existing units of cement plant.																											
vii.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	Air Pollution Control (APC) systems are provided as per prescribed emission norms.																											
viii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Road Cleaning is carried out by mechanical sweeping machine.																											
ix.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation; Use closed bulkers for carrying fly ash	Covering of Raw Material is ensured during transportation. Flyash is transported in closed bulkers from captive power plant to cement plant.																											
x.	Provide wind shelter fence and chemical spraying on the raw material stock piles; and	Greenbelt has been developed as wind shelter in fence of plant. Raw Material is covered towards the boundary area.																											
xi.	Provide Low NOx burners as primary measures and SCR /NSCR technologies as secondary measure to control NOx emissions.	The scope of proposed expansion is only increase in Cement Grinding Capacity. However, concentration of NOx in emissions from existing Raw Mill and Kiln Stack is well within the revised emission norm (1000 mg/Nm <sup>3</sup> ). Company has submitted clarification Vide TCL letter No A/WG/294/2019 dated 05.07.2019.																											
xii.	Have separate truck parking area and monitor vehicular emissions at regular interval.	Vehicles are parked in designated area and vehicle emissions are checked as per checklist.																											

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xiii.	Efforts shall be made to reduce impact of the transport of the raw materials and end products on the surrounding environment including agricultural land by the use of covered conveyor belts/railways as a mode of transport	Company has implemented following control measures: 1. Covering of raw material and product during transportation 2. Closed conveying system in Raw Mill, Kiln, Coal Mill, Clinker and Cement Mill areas. Railways as a mode of is not feasible for transportation of cement in this site
xiv.	Ventilation system shall be designed for adequate air changes as per ACGIH document for all tunnels, motor houses, cement bagging plants	The scope of proposed expansion is only increase in Cement Grinding Capacity. Existing bagging units are equipped with bag filters. Company has also submitted clarification vide TCL letter No A/WG/294/2019 dated 05.07.2019.
<b>III.</b>	<b>Water quality monitoring and preservation</b>	
i.	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R. No. 612 (E) dated 25th August, 2014 (Cement) and subsequent amendment dated 9th May, 2016 (Cement) and S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time) and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Company has installed Effluent analyser and connected to CPCB server. Online monitoring system is calibrated as per CPCB guidelines.
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers / sampling wells in the plant and adjacent areas through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground Water quality is monitored in identified locations through labs recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.
iii.	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional Office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Monthly Summary Report of following are enclosed: a. Continuous Effluent Monitoring Report. b. Manual Monitoring Report. c. Ground Water Quality Report.

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iv.	Adhere to 'Zero Liquid Discharge'	Proposed Expansion of Cement production capacity will not add generation of waste water. Company has treated waste water discharge system for existing Industry complex (Soda ash, Captive Power, cement, Chlor-alkali and bromine plant). Treated waste water is discharged into sea through single outlet. Company has submitted clarification vide TCL letter No A/WG/294/2019 dated 05.07.2019.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Company has existing STP Facility in township.
vi.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off	Existing drains for Raw material storage and monsoon water management system.
vii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Company has existing rainwater harvesting facilities in township area.
viii.	Water meters shall be provided at the inlet to all unit processes in the cement plant	There will no fresh water Intake.
ix.	The project proponent shall make efforts to minimise water consumption in the cement plant complex by segregation of used water, practicing cascade use and by recycling treated water	Company has adopted integrated water management System
<b>IV</b>	<b>Noise monitoring and prevention</b>	
i.	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Ambient Noise level monitoring is conducted. Copy of Noise monitoring report is enclosed.
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz, 75 dB(A) during day time and 70 dB(A) during night time	Ambient Noise levels are well within the prescribed norms
<b>v.</b>	<b>Energy Conservation measures</b>	
i.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Company has initiated installation of roof top solar lighting system in Captive power plant.
ii.	Provide the project proponent for LED lights in their offices and residential areas.	LED lights are installed in offices and Residential area.

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iii.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Flyash is utilised in cement as per BIS norms.
<b>VI.</b>	<b>Waste management</b>	
i.	The waste oil, grease and other hazardous shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.	Hazardous waste is disposed through approved recycling/ disposal agencies.
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Company has facilities for Compost making from food waste.
<b>VII</b>	<b>Green Belt</b>	
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant	Greenbelt is being developed as per EMP given in EIA report.
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	GHG emissions inventory is carried out as per GRI guidelines.
<b>VIII.</b>	<b>Public hearing and Human health issues</b>	
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Process of HIRA and Disaster Management plan is prepared for existing operations.
ii.	The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	PPEs are provided as per the norms of Factory Act.
iii.	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Company has existing facilities within township area.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Periodical medical check-up are conducted as per schedule.
<b>IX.</b>	<b>Corporate Environment Responsibility</b>	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	Company shall comply with the applicable provisions regarding Corporate Environment Responsibility.

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iii.	The company shall have a well laid down environmental policy duly approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	Company has a well laid down Safety Health and Environment Policy. Requirements of Environmental regulations are included in Legal Compliance Management System. Copy of Safety, Health and Environment Policy signed by the Managing Director of Company is being along with six-monthly compliance status report. Separate Environmental Cell is part of Environment Management System (ISO-14001:2015).
iv.	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	<ol style="list-style-type: none"> <li>1. Company has implemented following EMPs: <ol style="list-style-type: none"> <li>a. Upgradation of Air Pollution Control Systems as per revised emission norms</li> <li>b. Online Monitoring System</li> <li>c. Development of Greenbelt in plant periphery</li> <li>d. Waste utilisation (Co-processing)</li> </ol> </li> <li>2. Responsibility matrix of company is prepared as per ISO 14001:2015 and approved by the Management Representative.</li> <li>3. Year wise funds are earmarked for environmental protection measures Separate accounts are maintained for environmental projects.</li> <li>4. Year wise progress of implementation of action plan shall be reported to Ministry/Regional Office along with the Six Monthly Compliance Report</li> </ol>
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Environmental audits are carried out by GPCB schedule - I auditor and ISO audit by third party
vii.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the cement plants shall be implemented.	Company has implemented applicable norms for cement plant and quarterly compliance report under CREP is submitted to the GPCB.
<b>X.</b>	<b>Miscellaneous</b>	

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i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Advertisement has been published in News Papers. Copies of the advertisements have been submitted to the Ministry. Copy of Environment Clearance is uploaded on Company's Web portal.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Copies of environment clearance has been submitted to Okha Nagarpalika, Taluka Development Officer and District Development Officer vide letter no A/WG/278/2019 dated 04.07.2019.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Status of compliance shall be uploaded on Company's Web-portal.
iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO <sub>2</sub> , NO <sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Air quality parameters are monitored and displayed near Main Gate of factory. Monthly summary of data shall be uploaded on Company's Web-portal along with Half yearly compliance report.
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Six- monthly compliance report shall be submitted on Web portal of MoEF&CC.
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Environment Statement (Form - V) is submitted to the GPCB and copy is uploaded on Company's Web portal



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vii.	The project proponent 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, commencing the land development work and start of production operation by the project.	Company has published annual report for FY 2018-19 for Date of Financial Closure (31.03.2019). Proposal has been approved by the GPCB (Consent to Establish) and MoEF&CC (Environment Clearance). Expansion of Cement production capacities shall be made within the existing cement plant and project timelines will be submitted to the Ministry.
i.	The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.	Noted. Company shall adhere to the stipulations made by GPCB.
ii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted. Company shall comply with the environmental management program (EIA/EMP).
viii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted. Expansion or modifications in the plant shall be carried out as per EC approval of the Ministry of Environment, Forest and Climate Change.
ix.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
x.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xi.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted.
xii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted.

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xiii.	The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India/ High Courts and any other Court of Law relating to the subject matter.	Noted.
xiv.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.