

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

**Half Yearly Compliance status report of Environmental Clearance F. No. J-11011/140/2016- IAI (I)**

**Dated 5th July, 2019**

S.No.	Compliance of terms and Conditions	Compliance Status (March'2022)
9.	Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for <b>Expansion of Soda Ash Plant from 1091000 TPA to 1316000 TPA and Captive Power Plant from 85 MW to 125 MW by M/s Tata Chemicals Ltd</b> at villages Mithapur and Surajkaradi, Taluka Dwarka, District Devbhumi Dwarka (Gujarat), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:-	
(a)	The environmental clearance shall be subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife, as applicable.	There is no notified area involved in existing complex for soda ash expansion project. Therefore, recommendation is not required. 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.
(b)	Necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, shall be obtained from the State Pollution Control Board.	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.
(c)	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.	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.
(d)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	Standards for Organic Chemicals Manufacturing Industry are not applicable as the scope of proposed expansion in Soda Ash (Inorganic Industry) production capacity & Captive Co-generation thermal power plant. Company has submitted clarification Vide TCL letter No A/WG/294-A/2019 dated 12.07.2019.
(e)	To control source and the fugitive emissions, 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.	Air pollution control devices are provided as per the prescribed norms.
(f)	Total existing water requirement from Sea is 276000 cum/day. No additional fresh water/Sea water shall be required for proposed expansion.	Total water requirement from Sea shall be well within 276000 M3/day (Average). No additional fresh water will be required.

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(g)	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.	Treated waste water is discharged into Sea as per prescribed norms. The storm water from the premises shall be collected and discharged through a separate conveyance system.
(h)	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.	Hazardous Chemicals are stored in tanks in designated area. Safety and Fire management system is in place.
(i)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF	Not applicable as the manufacturing process (Inorganic) of Soda Ash does not generate organic residue and spent carbon. Effluent solids from Soda ash manufacturing process are filtered and utilised in Cement plant located within the same complex. Company has submitted clarification Vide TCL letter No A/WG/294-A/2019 dated 12.07.2019.
(j)	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.	Company has implemented practices as per the requirements under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989; and Motor Vehicle Act (MVA), 1989
(k)	Fly ash should be stored separately as per CPCB guidelines so that it may not adversely affect the air quality. Direct exposure of workers to fly ash & dust should be avoided.	Fly ash is transported in Closed Bulker/covered vehicles for utilisation in cement plant, brick manufacturers and storage site. Water spray system is provided in storage area.
(l)	The company shall undertake waste minimization measures as below:-	Company has implemented integrated waste management practices for utilisation of waste in cement manufacturing. Following practices are in place for waste minimisation: 1. Metering & Control of quantities 2. Use of undersize limestone, Effluent Solids and Fly ash 3. Automated filling system 4. Closed Feed system 5. Ammonia still process
(i)	Metering and control of quantities of active ingredients to minimize waste.	
(ii)	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	
(iii)	Use of automated filling to minimize spillage.	
(iv)	Use of Close Feed system into batch reactors.	
(v)	Venting equipment through vapour recovery system.	
(vi)	Use of high pressure hoses for equipment clearing to reduce wastewater generation	

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(m)	The green belt of at least 5-10 m width shall be developed in nearly 33% 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.	Greenbelt is being developed as per Environment Management Plan (EMP) given in EIA report.
(n)	All the commitments made to the public during public hearing/consultation shall be satisfactorily implemented.	Noted. EMP including the Public Hearing action points shall be implemented.
(o)	At least 0.25% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.	Noted. Time bound action plan shall be implemented as per EMP.
(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.	Noted. Emission limits and the stack height shall be in conformity with the prescribed norms. Acoustic enclosures are provided for controlling the noise pollution.
(q)	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 Management System is in place as a part of Emergency Plan.
(r)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance of the workers is conducted as per schedule and records are maintained as per the Factories Act.
(s)	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.	Online monitoring system has been installed for stack emissions and effluent. The system is connected to CPCB server. Company has submitted clarification Vide TCL letter No A/WG/294-A/2019 dated 12.07.2019 regarding non-applicability of web camera.
9.1	The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-	
(i)	The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.	Noted. Company shall adhere to the stipulations made by GPCB.

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(ii)	No further expansion or modifications in the plant 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.	Noted. Expansion or modifications in the plant shall be carried out as per EC approval of the Ministry of Environment, Forest and Climate Change.
(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 each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	AAQ monitoring is conducted in locations selected as per CPCB guidelines (by NABL Lab) and in consultation with the GPCB. 1. Manual Ambient Air Quality Monitoring Stations. 2. Continuous Ambient Air Quality Monitoring Stations It has been ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.	Ambient air quality is monitored for prescribed parameters and National Ambient Air Quality Emission Standards.
(v)	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).	Ambient Noise Levels around the plant area conform to the prescribed standards. Control measures in source of noise generation points are provided.
(vi)	The Company shall harvest rainwater from the roof tops of the buildings to recharge ground water, and to utilize the same for different industrial operations within the plant.	Company has existing rainwater harvesting facilities in township area.
(vii)	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.	Company has established process for training on Safety & health aspects of chemicals handling and periodical medical examinations are conducted as per schedule.

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(viii)	The company shall 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 shall be implemented.	Noted. Company shall comply with the environmental management program (EIA/EMP).
(ix)	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.	Tata Chemicals Society for Rural Development has been working for CSR activities.
(x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is equipped with full-fledged laboratory facilities and conducts the Environmental Monitoring for the prescribed parameters.
(xi)	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.	Company shall earmark sufficient funds to implement the environment management program.
(xii)	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 whom suggestions/representations, if any, were received while processing the proposal.	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.
(xiii)	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&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	Six- monthly compliance report is being submitted along with results of monitored data.

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(xiv)	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&CC by e-mail.	Environment Statement (Form-V) is submitted to the GPCB and copy of the same is uploaded on Company's Web portal. Copy of the Form-V and status of compliance of environmental clearance conditions are being submitted to Regional offices of MoEF&CC by e-mail.
(xv)	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 <a href="http://moef.nic.in">http://moef.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.	Advertisement has been published in News Papers. Copies of the advertisements have been submitted to the Ministry.