Compliance of Mechanism for Environmental Management of Critically Polluted Area (CPA) and Severally Polluted Area (SPA)

Reference: OM F. No. 22-23/2018-IA.III (Pt.) dated: 31st October, 2019

Environment	Mitigation Measures		Compliance
Air	Stipulation of Conditions Such as:		
	i.	Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.	Noted and shall be complied. Unit has proposed to provide adequate Air Pollution Control Measures for flue gas and process gas emission to achieve the norms as mentioned and revised in CPA. Flue gas emission and its proposed air pollution control measures are mentioned below: ● Unit has proposed to use natural gas as a fuel for Stand by Boiler (0.5 MT/Hr) and LDO for Stand by DG Set (75 KVA). D GSet shall be used only during power cutoff. Unit is member of common steam house and will continue to consume steam from there only. However, in case of break down or maintenance of common steam house, unit will use in-house boiler for steam generation. Process gas emission and its proposed air pollution control measures are mentioned below. ● Two stage Alkali scrubbers shall be provided to control emission of Sox and NOx. There shall be no change in existing process gas emission after proposed expansion.

			More details are provided in EIA report Chapter – 2.
	ii.	CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.	Continuous Emission Monitoring System will be installed and connected with GPCB/CPCB Server.
	iii.	Effective fugitive emission control measures should be imposed in the process, transportation, packaging etc.	Complied. Unit has proposed to use natural gas a fuel for stand by boiler (0.5 MT/Hr).
	iv.	Transportation of materials by rail/conveyor belt, wherever feasible.	Unit will prefer the transportation of the materials through rail whenever it is possible. Manual handling will be utilized in minimum activities.
	v.	Encourage use of cleaner fuels (pet coke/ furnace oils/ LSHS may be avoided.)	Noted. Unit has proposed to use natural gas a fuel. LDO will be used in DG Set and which shall be used only during emergency power cutoff.
	vi.	Best Available Technology may be used. For example, usage of EAF/SAF/IF in place of cupola furnace. Usage of supercritical technology in place of sub-critical technology.	Unit will comply the condition and use best available technology to increase yield and minimize quantity of waste. Unit has also explored the technology of continuous reactor process in place of batch process for their some of the products to maximize the yield and minimize the pollution.
	vii.	Increase of Green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	Noted. Unit has proposed 186 m2 area for green belt development within plant premises. As the proposed project is for and expansion of existing facility, there is no sufficient space available within premises. Thus, unit will develop additional green belt in COP of Sachin GIDC or within 5 km radius of the study area to comply 40 % greenbelt condition.
	viii.	Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	Noted. Unit has proposed 186 m2 area for green belt development within plant premises. As the proposed project is for and expansion of existing facility, there is no sufficient space available within

			premises. Thus, unit will develop additional green belt in COP of Sachin GIDC or within 5 km radius of the study area to comply 40 % greenbelt condition.
	ix.	Assessment of carrying capacity of transportation load on roads inside the industrial premises. If roads required to be widened, shall be prescribed as a condition.	Project location is in well-established GIDC of Sachin having adequate infrastructure facilities. Unit has also wide road within the plant area for better vehicle movement.
Water	<u>Stipulation of Conditions Such as:</u>		
	i.	Reuse/Recycle of treated wastewater, wherever feasible.	Effluent generation due to proposed expansion will be increased to 11.8 KLD (10.5 KLD industrial + 1.3 KLD domestic). Industrial effluent will be segregated into two streams from their source itself i.e. concentrated stream and dilute stream. Concentrated stream of 5.5 KLD along with RO reject of 1 KLD will be treated into in-house ZLD facility consisting of neutralization, MEE, biological treatment unit and RO plant while dilute effluent from process and other utilities of 5 KLD will be sent to common CETP of GECL after in-house treatment in ETP. Domestic sewage of 1.3 KLD will be disposed of through soak pit system. Please note that due to proposed expansion quantity of dilute effluent to be sent to GECL will remain same and will not increase.
	ii.	Continuous Monitoring of effluent quality/ quantity in large and medium red category industries (water polluting).	Noted and unit will comply the condition as per standards. Unit will install flow meters as inlet and out of ETP. Regular monitoring will be carried out to check the quality of effluent. Unit will provide COD, pH sensor at final outlet for continuous analysis.
	iii.	A detailed water harvesting plan may be submitted by the project	Water Harvesting plan is provided in EIA report Chapter – 2.

		proponent.	
	iv.	Zero Liquid Discharge wherever techno-economically feasible.	Effluent generation due to proposed expansion will be increased to 11.8 KLD (10.5 KLD industrial + 1.3 KLD domestic). Industrial effluent will be segregated into two streams from their source itself i.e. concentrated stream and dilute stream. Concentrated stream of 5.5 KLD along with RO reject of 1 KLD will be treated into in-house ZLD facility consisting of neutralization, MEE, biological treatment unit and RO plant while dilute effluent from process and other utilities of 5 KLD will be sent to common CETP of GECL after in-house treatment in ETP. Domestic sewage of 1.3 KLD will be disposed of through soak pit system. Please note that due to proposed expansion quantity of dilute effluent to be sent to GECL will remain same and will not increase. Domestic wastewater shall be disposed through septic tank/soak pit system.
	v.	In case, domestic waste water generation is more than 10 KLD, Industry may install STP.	Domestic waste water generation shall be 1.3 KLD and shall disposed through septic tank/soak pit.
Land	<u>Stipulation of Conditions Such as:</u>		
	i.	Increase of Green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.	Noted. Unit has proposed 186 m2 area for green belt development within plant premises. As the proposed project is for and expansion of existing facility, there is no sufficient space available within premises. Thus, unit will develop additional green belt in COP of Sachin GIDC or within 5 km radius of the study area to comply 40 % greenbelt condition.
	ii.	Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.	Noted. Unit has proposed 186 m2 area for green belt development within plant premises. As the proposed project is for and expansion of existing facility, there is no sufficient space available within

			premises. Thus, unit will develop additional green belt in COP of Sachin GIDC or within 5 km radius of the study area to comply 40 % greenbelt condition.
	iii.	Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/CPCBs.	Unit will send Hazardous waste to approved TSDF site only. All the waste will be disposed of as per Solid and hazardous waste management. More details are provided in EIA report Chapter – 2.
	iv.	More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co-processing.	Noted. The details for management of hazardous waste are provided in EIA report Chapter – 2.
Other Condition (Additional)	<u>Stipulation of Conditions Such as:</u>		
	i.	Monitoring of compliance of EC conditions may be submitted with third party audit every year.	Noted. Unit shall Comply the condition.
	ii.	The % of CER may be at least 1.5 times the slabs given in OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environment Clearance.	The unit has proposed to spend nearly ₹10,25,000/- Budget (4 % of the total cost ₹2.5 Crores) for social development programs under CER activities for the next 5 years. More details are provided in EIA report Chapter – 8.