







**Environmental Clearance No.F. No. J-11011/90/2011- IA II (I), dt.22.3.13 and transferred in favour of M/s M/s Grasim Industries Limited vide Ministry's letter no. J-11011/90/2011- IA II (I) dated 21.11.2019 valid till 20.03.20 & further extended to 3 years i.e. 22.03.2023**

Sl.No.	Conditions	Compliance	PICTURES	Remarks
<b>A- SPECIFIC CONDITIONS</b>				
i	No mercury cell shall be used. Manufacturing process of chlor alkali shall be based on membrane cell.	Complied.	 Electrolyser cell house area	Membrane cell technology is being used.
ii	Bag filter alongwith adequate stack shall be provided to rice husk/coal fired boilers boiler to control particulate emissions within 50 mg/Nm3. The waste gases shall be discharged into atmosphere through stack of adequate height as per CPCB/APPCB guidelines.	Complied.	 Boiler with ESP	Electrostatic Precipitator to control particulate emissions in rice husk/ coal fired boiler package unit. Under implementation.
iii	As proposed adequate scrubbing system shall be provided to control Cl2 emissions less than 15 mg/Nm3 and control HCl emissions less than 35 mg/Nm3 respectively. Online Chlorine analyser alongwith alarm indicator shall be installed in the chlorine stack with a minimum reading of 1 ppm and will be connected to the DCS control room. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly.	Complied.	 HCl synthesis unit	HCl synthesis unit (2x45TPD) is guaranteed for Chlorine emissions less than 15 mg/Nm3 and HCl emissions less than 35 mg/Nm3. Online chlorine analyser and alarm indicator connection to DCS control room is considered in design. Scrubbing media is connected to ETP.
iv	The gaseous emissions (SO2, NOx, Cl2, HCl) and particulate matter from boiler and process stack shall conform to the norms prescribed by the CPCB/ APPCB from time to time. 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 should be automatically stopped. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack monitoring shall be done regularly and report shall be submitted to APPCB and the Ministry's regional office at Bangalore.	Complied.		Emissions from the boiler and process stacks will conform to the prescribed norms. Continuous stack emission monitoring system received at site to ensure the compliance as per CPCB/APPCB norms.
v	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 and records maintained. The emissions shall conform to the limits stipulated by the APPCB.	Complied.	 Water curtain system in Chlorine storage area	Fire fighting system- Water curtain system is completed in Chlorine storage area.  Coal area provided with water sprinkler for dust control. Suction blower with multiple suction points provided in plant for taking the fugitive emissions to hypo tower.
vi	A proper Leak Detection and Repair (LDAR) Program for pesticide industry shall be prepared and implemented as per CPCB guidelines. Focus shall be given for prevention of fugitive emissions for which preventive maintenance of pumps, valves, pipelines are required. Proper maintenance of mechanical seals of pumps and valves shall be given. A preventive maintenance schedule for each unit shall be prepared and adhered to.	Not applicable		Not applicable
vii	Proper hood alongwith suction facility and scrubbing arrangement should be provided in the chlorine storage area. Alarm for chlorine leakage if any in the liquid chlorine storage area shall be provided alongwith automatic start of the scrubbing system.	Being complied with.	 Chlorine bullets	Proper hood for chlorine storage area. Alarm for chlorine storage area is considered.
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.	Being complied with.		Acoustic enclosure provided in all DG sets.
ix	The company shall upload the status of compliance of the stipulated environmental clearance conditions, including 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 APPCB. The levels of PM10, SO2, NOX, Cl2, HCl, and CO in ambient air and emissions from the stacks shall be monitored and/ displayed at a convenient location near the main gate of the company and at important public places.	Being complied with.		Status of environmental clearance compliance is being updated on website.  All online stack monitoring systems are received at site and the parameters will be displayed at the main gate.
x	Total fresh water drawal from Godavari River shall not exceed 3800 m3/day and prior permission shall be obtained from the Competent Authority.	Being complied with.		Scheme under technical design.
xi	Efforts shall be made to reduce the fresh water requirement by adopting 3 R's (Reduce, Reuse and Recycle) concept.	Being complied with.	 RO systems for water treatment and recycle	3Rs- Reduce, Reuse and Recycle concept is adopted. The fresh water intake will be reduced by recycling the effluent water in effluent treatment plant which will be reused to meet process requirements.
xii	Industrial effluent generation shall not exceed 620 m3/day and treated in ETP. Treated effluent shall be recycled/reused within the factory premises. Treated effluent shall be collected in the guard pond. Regular water quality monitoring of guard pond shall be carried out and Water quality of treated effluent shall meet the norms prescribed by CPCB/APPCB. Domestic wastewater shall be treated in STP. Water quality of treated effluent shall be monitored regularly.	Being complied with.	 Integrated WTP, ETP & ZLD area	There is an integrated Effluent Treatment cum recycle facility with provision of ZLD system, thereby no discharge will happen from plant. Hence there is no Guard Pond planned. A separate 100 KLD STP is under implementation for domestic waste management and the treated water will be used in the green belt inside plant.

xiii	No effluent shall be discharged outside the premises and 'Zero' discharge concept shall be adopted.	Complied.		ZLD System, hence no discharge. Evaporators and dryer for Zero Liquid Discharge plant received. Erection activities under progress.
xiv	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Being complied with.		Storm water drain networks is separately being constructed without any mixing with process Water system.
xv	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 APPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting facilities in case of emergency. Membership of TSDF for hazardous waste disposal shall be obtained.	Under process		Membership of TSDF obtained. Authorization for disposal of hazardous waste will be obtained along with CTO. Fire fighting facilities included and under implementation.
xvi	As proposed, ETP sludge and process sludge shall be sent to TSDF site. High calorific value waste shall be sent to cement factory/incinerated.	Complied.		ETP sludge will be sent to the nearest TSDF site at Parwada, Vishakapatnam. Membership obtained.
xvii	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended in October, 1994 and January, 2000. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.	Under process		
xviii	The company shall undertake following waste minimization measures :- a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Complied.		a) Proper instrumentation for metering of quantities of active ingredients is considered in design. b) Adding value to the by-products from the process by HCl synthesis and other Value Added Plants (Chlorinated Paraffin Wax, Stable Bleaching Powder and Mono chloro Acetic Acid) c) Noted. d) Pneumatic Conveying system for SBP Plant-ordering in progress. e) Noted. f) Noted.
xix	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.	Being complied with.		Fire fighting system work is under progress
xx	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being complied with.		
xxi	Green belt shall be developed in 60 acres as per the CPCB guidelines in consultation with DFO. Thick greenbelt with suitable plant species shall be developed around the proposed pesticide unit to mitigate the odour problem. Selection of plant species shall be as per the CPCB guidelines.	Being complied with.		Area now covered is above 60 acres, . Plantation is being done in consultation with DFO, Rajahmundry. Also, 300 plants obtained from the Forest department, Rajahmundry. Regular plantation drive carried out inside plant area.
xxii	All the commitments made during the Public Hearing / Public Consultation meeting held on 15th February, 2012 shall be satisfactorily implemented and adequate budget provision should be made accordingly.	Noted.		Minutes being closely monitored and implemented.
xxiii	At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.	Being complied with.		Separate ESC already being spent on various activities. Drinking water plant set up at 2 nearby villages. Skill development centre tailoring class set up.
xxiv	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/ procedure to being 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.	Planned and ongoing.		
xxv	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, crèche 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.	Being done.		Being Complied with and maintained as per norms.

B- GENERAL CONDITIONS				
i	The project authorities shall strictly adhere to the stipulations made by the AP Pollution Control Board.	Noted.		APPCB Consent Conditions being met.
ii	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed by the unit.	Noted.		Periodic monitoring is planned. AAQMS station received at site.
iii	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.	Noted.		
iv	The locations of ambient air quality monitoring stations shall be decided in consultation with the AP Pollution Control Board (APPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Noted.		Letter written to APPCB and continuous discussions going on. Location will be fixed in consultation with APPCB.
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).	Noted.		Regular monitoring of noise levels at various areas inside plant is carried out. Necessary noise control measures including acoustic hoods, PPEs provided on all sources of noise generation.
vi	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.	Being complied with.		Rainwater harvesting from rooftops of buildings and storm water drains to recharge borewells inside the site has been planned.
vii	During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.	Being complied with.		The same has been considered in the design.
viii	Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.	Complied.		Noted. Strict compliance to this is in place.
ix	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.	Being complied with.		Noted. Till 31st May 2021, a total of 21582 Manhours of training on Safety has already been imparted to Company and Project Staff. - Strict compliance to pre-employment and routine medical check-ups is made.
x	The company shall also comply with all the environmental protection measures and safeguards proposed in the project report 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.	Noted. Will be complied.		
xi	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	Many initiatives undertaken.		Drinking water plant set up at nearby villages. HSBP distribution and sanitisation was carried out 8 in nearby villages due to COVID-19 and continuing. Skill development centre set up for tailoring classes.
xii	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Being planned.		Lawn developed and maintained at Rajahmundry Airport.
xiii	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Being complied with.		Engineer appointed. Lab under construction.
xiv	The company shall earmark sufficient funds for recurring cost per 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 done.		
xv	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.	Complied.		Latest Name Change Letters sent to local authorities.
xvi	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 AP Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Being done.		Complied.
xvii	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Gujarat 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 Bangalore Regional Offices of MoEF by e-mail.	Will be done once the plant is commissioned.		This will be applicable post commissioning.

xviii	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://envfor.nic.in">http://envfor.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.	Has been done.		The EC was taken by M/s KPR industries in 2013 and transferred in favour of M/s Grasim Industries Limited dated 21.11.2019
xix	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.	Project resumption intimated as on 19th feb 2019. Progress reports being sent regularly.		