

**Compliance report for the accord of Environmental Clearance as on January 2020 to June 2020**

S.NO	Name of the Conditions	Status	Remarks
A	<b>Specific Conditions</b>		
i)	National Emission Standards for organic chemicals manufacturing issued by the ministry Vide G.S.R. 608 (E) dated 21st July 2010 and amended time to time shall be complied by the unit	Emission levels are monitored through KSPCB / MOEF empaneled laboratory & NABL accredited . The emissions are within the prescribed limit as per the monitoring data collected and compiled from time to time.	Complied. Attached latest stack monitoring reports annexure -1
ii)	Multi-cyclone followed by bag filter shall be provided to the coal fired boiler to control particulate emissions within permissible limit. The gaseous emission shall be dispersed through stack of adequate height as per CPCB/KSPCB guidelines	Multi cyclone filter followed by Bag filter provided to the combi pack boiler to control particulate emission. The stack emission is monitored through external agency and emissive levels are within permissible limit. The gaseous emission dispersed through stack of adequate height as per the guidelines.	Complied. Attached latest stack monitoring reports annexure -1
iii)	Two stage chilled water/ caustic scrubber shall be provided to process vents to control HCl, Two stage scrubber with caustic media solution shall be provided to process vents to control SO <sub>2</sub> , Two stage scrubber with chilled water media shall be provided to process vents to control NH <sub>3</sub> , The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels should go beyond the prescribed standards. Scrubber vent shall be provided with on-line detection and alarm system to indicate higher than permissible value of controlled parameters	Two stage scrubber with caustic media solution provided to process vents to control HCl, SO <sub>2</sub> emissions. Two stage scrubber with chilled water media provided to control process vents to control NH <sub>3</sub> . The scrubbing media is sent to MEE for further treatment.	Complied
iv)	Ambient air quality data shall be collected as per NAAEQS standard by the Ministry vide G.S.R. No. 826 (E) dated 16th September 2009. The levels of PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> , VOC, NH <sub>3</sub> and HCl shall be monitored in ambient air and emissions from stack and displayed at a convenient location near the main gate of the company and important public places. The company shall upload the results of monitored data on the website and shall update the same periodically. It shall simultaneously be sent to Regional office of MOEF. The respective Zonal office of CPCB and Karnataka state pollution Control Board (KSPCB)	AAQ is monitored through KSPCB / MOEF empaneled laboratory & NABL accredited and the reports are submitted to KSPCB as well as MOEF, RO. The AAQ data displayed at the main gate of the company.	Complied, Attached latest ambient air quality data monitoring reports in the annexure -2

v)	<p>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 &amp; 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.</p> <p>Fugitive emissions in the work zone environment, product, new materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the KSPCB</p>	<p>In plant control measures for checking fugitive emissions all the sources are provided. Fugitive emission is monitored through external agency KSPCB / MOEF empaneled laboratory &amp; NABL accredited. The fugitive emission in the work zone environment, raw materials storage area are regularly monitored. The emission levels are within limit.</p>	<p>Complied, Attached latest VOC data monitoring reports in the annexure -3</p>
vi)	<p>For further control of fugitive emissions following steps shall be followed</p>	<p>The following fugitive emission controls ensured</p>	
	<p>1. Closed handling system shall be provided for chemicals.</p>	<p>All chemicals are handled in closed systems</p>	<p>complied</p>
	<p>2. Reflux condenser shall be provided over reactor.</p>	<p>Reflux condensers are connected to the reactors wherever required.</p>	<p>complied</p>
	<p>3. System of leak detection and repair of pump/pipeline based on preventive maintenance.</p>	<p>All the pumps / pipeline and equipment are subjected to preventive maintenance</p>	<p>complied</p>
	<p>4. The acids shall be taken from storage tanks to reactors through closed. Storage tank shall be vented through trap receiver and condenser operated on chilled water.</p>	<p>The acids are taken from storage tank through dedicated pipe line</p>	<p>complied</p>
	<p>5. Cathodic protection shall be provided to the underground solvent storage tanks.</p>	<p>Underground solvent storage tanks are provided with cathodic protection</p>	<p>complied</p>
vii)	<p>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</p>	<p>Adequate stack height is provided and DG set is provided with acoustic enclosure to mitigate the noise pollution.</p>	<p>complied, Attached the details of the acoustic enclosure photo in the annexure 4</p>
viii)	<p>Solvent management shall be carried out as follows</p>	<p>The solvent recovery system provided to the reactors are double condensers with chilled brine as cooling media ensuring 95% recovery of solvents</p>	<p>complied</p>

	i. Reactor shall be connected to chilled brine condenser system.	Reactors connected with double condensers with chilled brine as cooling media to ensure maximum recovery of solvent.	complied
	ii. Reactor and solvent handling pump shall have mechanical seals to prevent leakages.	All the pumps handling solvents are provided with mechanical seals	complied
	iii. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery.	The condensers are provided with higher heat transfer area and ensured residence time so as to achieve more than 95% recovery.	complied
	iv. Solvents shall be stored in a separate space specified with all safety measures.	Solvents are stored in a separate space with all safety measures	complied
	v. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	Double earthing provided to all the solvent tanks. Ensured earthing in all the electrical equipment	complied
	vi. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	Entire plant is provided with flame proof motors, flame proof light fixtures & flame proof connections	complied
	vii. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation	All the solvents are stored in underground tanks. The underground solvent storage tanks protected with coating. The vent of the tanks connected with flame arrestors	complied
ix)	All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation	All the solvents are stored in underground tanks. The underground solvent storage tanks protected with coating. The vent of the tanks connected with flame arrestors	complied

x)	Total fresh requirement from KIADB water supply shall not exceed 60 m <sup>3</sup> /day and prior permission shall be obtained for drawl of 60 m <sup>3</sup> /day from the concerned authorities	Fresh water is taken from KIADB as per the board approved limit.	complied, agreement with KIADB attached in the annexure 5
xi)	Trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP and then passed the passed through RO system. Condensate and recover water shall be recycled/reused within factory premises. Sewage shall be Treated in biological ETP. No effluent shall be discharged outside the factory premises an 'Zero' discharge concept shall be adopted.	The effluent generated is segregated into High COD/TDS and Low COD/TDS. The High COD/TDS effluent is neutralized. The neutralized effluent is sent to stripper followed by MEE and ATFD. Condensate recovered sent boiler feed water tank and recovered water used as cooling tower make up of MEE cooling tower.	complied, effluent generation details with treatment method and schematic flow diagram attached in the annexure 6
xii)	Hazardous chemicals shall be stored in tanks, tank farms, drums carboys etc. Flame arresters shall be provided on tank farm. Solvent transfer shall be by pumps	Hazardous chemicals are stored in tanks , tank farms, drums & carboys. Flame arrestors provided on tank farms. Solvents from tank to manufacturing area trasferred through lines using pumps.	complied
xiii)	As proposed, process organic residue and spent carbon should be sent to cement industries ETP sludge, process inorganic & evaporation salt should be disposed off to the TSDF. The ash from boiler should be sold to brick manufactures/cement industry	The process organic residue, spent carbon sent to cement industries. ETP sludge, process inorganic and evaporation salt sent to TSDF. The ash from boiler sent to brick manufacturers	complied, Form 10 regarding the disposal attached in the annexure 7

xiv)	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 prlof., permission from KSPCB shall be obtained for disposal of solid / hazardous waste in the TSDF. Measures shall be taken for fire fighting in case of emergency	Authorization for collection, storage and disposal of hazardous waste under the hazardous waste rules taken from KSPCB. Adequate fire fighting measures measures provide.	complied , attached authorization for collection storage and disposal of hazardous waste in the annexure 8
xv)	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	Complied	
xvi)	Fly ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind regume s\during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided	Fly ash stored and disposed separately as per guidelines. Direct exposure of workers to fly ash and dust avoided by providing PPE's and ensured proper usage of PPE's	complied
xvii)	The company shall undertake following waste minimization measures		
	a. Metering and control of quantities of active ingredients to minimize waste.	The process of manufacturing is batch process. Liquid raw materials pumped into the addition tanks which are provided with measuring level indicators.	complied
	b. Re-use of by-products from the process as raw materials or as raw material substitutes in other processes.	Complied	
	c. Use of automated filling to minimize spillage.	Whenever liquid raw materials to be used such as solvents, they are transferred from tank through dedicated transfer lines using pumps.	complied

	d. Use of closed Feed system into batch reactors.	Raw material charged into the batch reactors through powder charging nozzle with butterfly valves	complied
	e. Venting equipment through vapor recovery system.	All the reactors vented through vapor recovery condensers. All the reactors provided with heat exchangers with suitable cooling media.	complied
	f. Use of high pressure hoses for equipment clearing to reduce wastewater generation	High pressure hose connected with jet pump used to clean equipment to minimize the generation of waste water.	complied
xviii)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling, Fire fighting system be as per the norms	Fire fighting equipment such as fire extinguishers/ fire hydrant system with 3 lakh liters of water storage with jockey pump, main hydrant pump and diesel driven pump of 150 m <sup>3</sup> /hr provide. Also fire brigade valve provide to connect water source from out side. Fire and smoke detection system provided in ware house, CRD , QC & QA buildings	complied , attached pictures of fire hydrant system in the annexure 9
xix)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Pre employment health check up for all the employee and worker ensured. Also occupation health surveillance of the workers done on regular basis and records maintained as per Factories Act	complied, attached details in the annexure 10

xx)	As proposed, green belt shall be developed in 12,347.20 m <sup>2</sup> out of total land 32.956.00 m2. Selection of plant specie shall be as per the CPCB guidelines	Company has planted saplings of trees to develop green belt in and around the premises for the overall improvement of environment. Total about 564 saplings survived and grown in to medium size trees for different types such as Ganuga, Pipal & Neem. Green belt developed over 33% of the plot area.	complied, attached details in the annexure 11
xxi)	At least 5% of the total cost of the project shall be earmarked toward the Enterprise Social Commitment based locals need and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office at Bangalore, Implementation of such program shall be ensured accordingly in a time bound manner.	Company has provided the following facilities towards the enterprise social commitment 1. Training and employment to the locals 2. Personality development training programmes conducting for 10th standard students of various schools in raichur on the digital format as a part of CSR activity.	complied, attached details in the annexure 12
xxii)	The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-aria address (i) Standard operating process/procedure to being into focus any infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system of 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 stakeholder or shareholders	Company made a policy towards corporate environment responsibility. Detailed its adherence in its Environmental Policy, Health Policy and Safety Policy.	complied, attached EHS policy and quality policy and organogram in the annexure 13

xxiii)	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, mobile sewage treatment plant, 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	Complied	
<b>B</b>	<b>GENERAL CONDITONS:</b>		
i)	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board	All the stipulations made by Karnataka State Pollution Control Board are strictly adhered and ensured.	complied
ii)	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 add additional environmental protection measures required, if any	Noted and no further expansion or modifications will be carried out with out approval.	complied
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 is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated	Complied	
iv)	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)	Noise level is regularly monitored by KSPCB / MOEF empaneled laboratory & NABL accredited on monthly basis and the levels are within the limit. Noise control measures such as acoustic hoods, enclosures, silencers etc on all sources of noise generation equipment such as DG Generator has been provided.	complied, attached noise level monitored in the annexure 14



v)	The company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharges the ground water and use the same water for the process activities of the project to conserve fresh water	Storm water drains constructed to collect the rain water from the roof tops of the buildings. The collected storm water connected to rain water harvesting pit to recharge the ground water	complied , attached picture of the storm water drain and rain water harvesting pit in the annexure 15
vi)	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.	Pre employment training to all the employees and workers on safety and health aspects of chemicals handling imparted. Pre employment and routine periodical medical examination conducted for all the employees and workers. Training given to all the employees and workers in handling of chemicals, training on first aid measures and training on fire & handling of fire extinguishers and fire hydrant handling training given	complied, attached in the annexure 16
vii)	Usage of Personnel Protection Equipments (PPEs) by all employees/ workers shall be ensured	PPE provided to all the employees and workers and ensured and regularly monitored the team for compliance with respect to use of personal protective equipment	complied
viii)	The company shall also comply with all the environmental 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 relating to the project shall be implemented	EIA/ EMP recommendation are being implemented.	complied

ix)	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration	Personality development training programmes conducting for 10th standard students of various schools in raichur on the digital format as a part of CSR activity.	complied
x)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment	1. Company has planted saplings of trees to develop green belt in and around the premises for the overall improvement of environment. Total about 564 saplings survived and grown in to medium size trees for different types such as Ganuga, Pipal & Neem. Green belt developed over 33% of the plot area. 2. As a part of renewable energy usage solar street lights planned inside the plant premises	complied, attached plant layout and green belt pictures in the annexure 17
xi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	KSPCB / MOEF authorized and NABL accredited laboratory, Savant Envitech Private Limited is monitoring the environmental quality i.e ambient air, effluent at storage tank and collection, stack attached to boiler, stack attached to DG generator, Noise levels	complied

xii)	<p>As proposed, the company shall earmark Rs. 91 Lakhs towards capital cost 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</p>	<p>An amount of 3 crore incurred for environmental management activities such as - separate collection tanks for process effluents , dedicated pumps &amp; transfer lines, storage and neutralization tanks, Stripper followed by MEE &amp; ATFD and condensate collection tanks and pumps for reusage in the cooling tower of MEE. Online monitoring equipment such as camera and flow meter for the effluent at the collection tanks provided. Gardening improved and more number of trees planted.</p>	<p>complied</p>
xiii)	<p>A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban local Body and the local NGO, if any from who suggestions/ representations, if any, were received while processing the proposal</p>	<p>Environmental clearance letter copy was shared to the respective local bodies</p>	<p>complied</p>
xiv)	<p>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 Karnataka State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company</p>	<p>Six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data provided to the respective regional office of MOEF/ Zonal Office of CPCB and the KSPCB. A copy of Environmental Clearance and six monthly compliance status report posted on the Company Web site</p>	<p>complied,</p>

xv)	<p>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 by e-mail.</p>	<p>The company started commercial operations from 01.04.2014 ( 1st April 2014). The environmental statement Form- V for each financial year ending 31st march is submitted to KSPCB as per guideline and same along with status of compliance of environmental clearance conditions kept on the website of the company. e-mail was sent to the regional office of MoEF</p>	<p>complied, attached latest form IV and Form V in the annexure 18</p>
xvi)	<p>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://envior.nic.in">http://envior.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 of the locality, concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry</p>	<p>Trimax Bio science Pvt Limited has given advertisement about the accord of environmental clearance of its project to inform to the public through two widely circulated newspapers in this region. The advertisement appeared in Praja Vani on 06.02.2013 in Kananda language. The other advertisement appeared in Deccan Herald on 07.02.2013.</p>	<p>complied, Attached in the annexure 19</p>
xvii)	<p>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</p>	<p>The company started commercial operations from 01.04.2014 ( 1st April 2014). The same has been informed to Regional Office as well as Ministry.</p>	<p>complied</p>