

HETERO LABS LIMITED, UNIT-1

ENVIRONMENT CLEARANCE CONDITION WISE COMPLIANCE REPORT

No. J-11011/121/2005-IA II (I) Dated 21st June 2005

(June'16 to Nov'16)

S. No.	CONDITION	COMPLIANCE STATUS
A. SPECIFIC CONDITIONS		
i.	The gaseous emissions (SO _x , NO _x , & HCL) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Complied. Scrubbers are provided to scrub the gaseous emissions from process & scrubbed solution is being treated in ZLD. Monthly monitoring is carried out by the MoEF authorized laboratory and submitting the reports to TSPCB every month. All gaseous Emissions are within the limits. Photocopies of the acknowledgments along with reports of last 3 months (September, October & November'2016) are enclosed as Annexure - I.
ii.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the SPCB.	Complied. Total 3 stations have been monitoring by the authorised laboratory and the reports are being submitted to TSPCB every month. Photocopies of the acknowledgments along with reports of last 3 months (September, October & November'2016) are enclosed as Annexure - II.
iii.	Spent solvents shall be recovered as far as possible & recovery shall not be less than 95%. During purification process, solvent vapours are emitted from purification tanks as fugitive emissions. Action shall be taken to reduce the emission as far as possible. Use of toxic solvents like Methylene Chloride (M.C) etc. shall be minimum. All venting equipment shall have vapour recovery system.	Complied. Dedicated solvent recovery system is in place to recover the solvent in the plant premises itself to reuse. Dry vacuum pumps are installed to reduce the fugitive emission in place of oil ring and water ring vacuum pumps. ANFD's are installed in place of traditional centrifuges to reduce the fugitive emissions. Both the systems are working well. Industry is minimised the usage of Methylene Chloride (M.C) to the extent possible and our Plant R&D is continuously working on it. All venting equipment are connected to vapour recovery systems & breather valves for solvent storage tanks
iv.	Industry shall switch over to aqueous based coating film in place of use of Methylene Chloride in coating operation, in a phased manner.	Not applicable for Bulk Drug Industry

v.	Industry shall switch over to use of non-halogenated solvents in place of halogenated solvents in a phased manner.	Industry is minimised the usage of non-halogenated solvents to the extent possible and our Plant R & D is continuously working on it.
vi	The company shall undertake following Waste Minimization measures:-	Complied with.
	Ø Metering and control of quantities of active ingredients to minimize waste.	Plant R&D is continuously working to improve the yield there by increase process efficiency and reduce waste.
	Ø Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Hetero Labs has taken up various initiatives for the recovery and reuse of the by products in the process itself or to use it as recovery in other units.
	Ø Use of automated filling to minimize spillage.	Provided measuring tanks as per the batch requirement to fill and charge through closed pipeline. Power charging system is provided at critical stages in view to improve working environment there by ensuring the safety of the employees.
	Ø Use of "Close Feed" system into batch reactors.	System is in place. All operations are carried in closed system.
	Ø Venting equipment through vapour recovery system.	All the vents are connected through primary and secondary condensers to maximise solvent recovery there by minimise solvent loss. Breather valves are provided for solvent storage tanks
	Ø Use of high pressure hoses for equipment clearing to reduce wastewater generation.	Each process block is equipped with one High Pressure jet pumps to clean the equipment to minimise the water consumption as well as reduce wastewater generation. Also initiated MEE cleaning with Hydrojet cleaning instead of Chemical water circulation to reduce the waste water generation.
vii.	Fugitive emissions in the work zone environment, product, Raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.	Complied. VOC monitoring is being done regularly & the results are within the limits. Details are enclosed as Annexure-III
viii.	The company shall install cyclone separators to control the dust emissions from the boiler and scrubber to control the process emissions.	Complied. Bag filters are provided to the boilers. Scrubbers are provided for the process reactors where there is possibility of process emissions.
ix.	The effluent generation shall not increase 14m ³ /d (10 m ³ /d from process and washings, 2m ³ /d from cooling tower and boiler blow downs, 2m ³ /d from domestic). Effluent shall be segregated into high COD and inorganic effluents. Organic effluent shall be incinerated and inorganic effluents shall be sent for forced evaporation. The domestic effluent shall be sent to septic tank followed	Complied. Generated Organic residue from solvent recovery plant is being disposed to authorised cement plants. Entire inorganic effluent treated in the Zero Liquid Discharge System (ZLD plant) and the treated water is being fed to RO. RO permeate is being reused as boiler feed. Domestic waste water is being treated in Sewage treatment plant (STP) and the treated water feed to

	by soak pit.	Biological treatment plant and RO plant for further treatment. Photographs of the treatment systems are enclosed as Annexure - IV
x	Solid wastes generated in the form of ETP sludge and process sludge shall be sent for disposal to the common secured landfill site of M/s Hyderabad Waste Management Projects. Boiler ash shall be provided to the brick manufacturers.	Complied. Solid wastes are being disposed to M/s Hyderabad Waste Management Project regularly and the detailed report is being submitted to TSPCB every month. Photocopies of the acknowledgments along with reports of last 3 months (September, October & November'2016) are enclosed as Annexure - V .
xi.	The destructive efficiency of the incinerator shall be assessed by an agency like the Central Pollution Control board and a report submitted.	Complied. The industry has dismantled the existing incinerator as the organic waste is being sent to cement industries for co processing/ TSDf for incineration.
xii	The company shall develop rainwater harvesting structures to harvest the runoff water for recharge of ground water.	Complied. Separate storm water sumps were constructed to collect the first run off and the same is reused after pre-treatment
xiii.	Green belt shall be provided in 25% of the plant area to mitigate the effects of fugitive emission all around the plant. Development of green belt shall be as per the Central Pollution Control Board guidelines.	Complied. More than 20000 saplings were planted in and around the plant premises and are growing well. Photographs of the green belt are enclosed as Annexure - VI
xiv.	The company shall obtain permission from the State Ground Water drawl.	Complied.
xv.	Occupation health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied. Periodic health surveillance is carried and the Records are made available at the site. Photocopies of the latest health check-up reports of few employees are enclosed as Annexure - VII .
xvi.	The Company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan shall be submitted to the SPCB within three months of this letter for approval.	Complied. Hetero Labs Limited has taken up various eco-development measures and community welfares such as conducting health camps, sapling plantation, providing Drinking water by installing drinking water RO Plants, constructing bus shelters, donating note books, school bags to the schools nearby and Conducting tournaments for the nearby schools.
B. GENERAL CONDITIONS		
i.	The project authorities shall strictly adhere to the stipulations made by the Andhra Pradesh State Pollution Control Board.	Complied with.

ii.	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Complied. All the emissions are within in the limits. Monthly monitoring is carried out by the MoEF authorized laboratories and submitting the reports to Board office by every month.
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.	Followed
iv	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage, and import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000. Authorization from the SPCB shall be obtained for collection, treatment, storage, disposal of hazardous wastes.	Complying MSIHC rules 1989 as amended in Oct 1994 & Jan 2000 Hazardous waste authorization is obtained from SPCB, valid up to 31.03.2020. Photocopy of the CFO enclosed as Annexure - VIII.
v	The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatments/storage/ disposal of hazardous wastes.	Complied, HDPE/used cement bags are being used for storing hazardous waste and sealing it manually. It is being disposed to the authorized agencies i.e. TSDF/Cement Industries. Hazardous waste authorization is obtained from SPCB, valid up to 31.03.2020.
vi	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 EPA Rules, 1989 viz. dBA (day time) and 70 dBA (night time).	Complied. Noise Levels are monitored by the MoEF authorized agencies apart from our regular monitoring and the monthly reports are being submitted to the Board. Photocopies of the acknowledgments along with reports of last 3 months (Sept, Oct & Nov'2016) are enclosed as Annexure - IX.
vii	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.	Complying
viii	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring	Complied. Separate environmental cell and dedicated environmental Laboratory is in place to monitor the day today functions and performance.

	functions.	
ix	The project authorities shall earmark separate funds 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 provided shall not be diverted for any other purpose.	Complied with.
x	The implementation of the project vis-a-vis environmental action plans shall be monitored by Ministry's Regional Office at Bangalore/SPCB/CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.	Complied with.
xi.	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 http://envfor.nic.in . This shall be advertise 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 Ministry's Regional Office at Bangalore.	Not applicable as it is existing plant.
xii	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.	Not applicable as it is existing plant.