



HETERO LABS LIMITED (UNIT-I)

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June 13, 2017

HLL- I/EHS/MoEF&CC/17-18/01

To,
Deputy Director,
Ministry of Environment, Forests & Climate Change,
Regional Office (South Eastern Zone)
1st & 2nd floor, HEPC Building,
No.33, Cathedral Garden road,
Nungambakkam,
Chennai-600034.

Sir,

Sub: Submission of first Half yearly EC compliance report for the year of 2017- Hetero Labs Limited Unit-1, Survey No.10, IDA Gaddapotharam, Jinnaram Mandal, Sangareddy Dist. - reg.

Ref: Environmental Clearance No.SEIAA/TS/MDK-31/2015-1715 dated: 10/11/2015.

With reference to the above cited, kindly find the enclosed first half yearly compliance status report for the year 2017 to the above referred Environmental clearance and the period of Dec'16 to May'17.

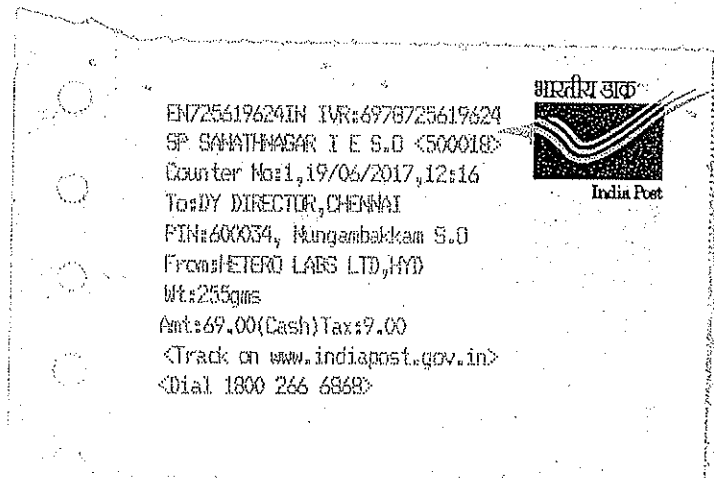
This is for your Kind reference and records

Yours faithfully

For Hetero Labs Limited, Unit- I.

Authorized Signatory

Encl: a/a



HETERO LABS LIMITED, UNIT – I
Gaddapotharam, IDA, Jinnaram (M), Sangareddy (Dist.), Telangana.

COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

Order No. SEIAA/TS/MDK-31/2015-1715 dated 10th Nov 2015

For the period of Dec'16 to May'17

A SPECIAL CONDITIONS :		
S. No	DESCRIPTION OF CONDITION	COMPLIANCE STATUS
a)	AIR POLLUTION:	
i	The emissions from the coal fired Boilers of capacities 8 TPH (existing-as standby) & 20 TPH (proposed), shall be routed through bag filters followed by stacks of height 30 m & 40 m respectively. The concentration of particulate in the emission from the proposed boiler shall not exceed 50 mg/Nm ³ . Sampling port with removable dummy of not less than 15cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc., shall be provided to monitor stack emissions. Stacks with adequate height shall be provided for D.G. Sets of capacities 2 x 320 KVA (existing), 1 x 500 KVA (existing)& 3x1020 KVA (proposed) as per CPCB norms.	Complied. The emissions from the coal fired Boilers of capacities 8 TPH (existing-as standby) & 16 TPH, shall be routed through cyclone separators, bag filters followed by stacks of height 30 m & 40 m has been provided The Emissions from the boilers are being Monitored by the MoEF approved (3 rd party) laboratory on monthly basis, the same is being submitted at SPCB and the results are well within the stipulated limits D.G stacks are provided as per the norms
ii	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608 (E) dated 21 st July, 2010 and amended time to time shall be followed by the unit.	Organic Chemicals Manufacturing Industry National Emission Standards are being followed
iii	The process emissions containing Hydrogen chloride, Ammonia and Sulphur Dioxide shall be routed through two stages scrubber system. Scrubbed liquid shall be treated and reused or subjected to MEE. The process emissions containing derivatives of Hydrogen, Butane, Carbon dioxide & Oxygen shall be dispersed into the atmosphere.	Complied. All the process emissions are routed through 2-stage scrubbers and scrubbing solution is being treated in in house ZLD. Enclosed photographs of few 2-stage Scrubbers as Annexure-I
iv	Necessary measures shall be taken to control odor as far as possible. Chillers (brine solution) shall be installed to reduce solvent evaporation losses into the atmosphere. All the solvent storage tanks shall be connected to vent condensers. Regular monitoring of the VOCs shall be carried out using sensors.	Complied. The Industry has taken up the all necessary measures to control the odor. - All operations are carried in closed system - Reactor vents are connected with primary and secondary condensers with Brine circulation. - Scrubbing system is provided to neutralize the acidic fumes.

		<ul style="list-style-type: none"> - Solvent storage tanks are provided with breather valve with flame arrestor and chilling mechanism. - Replacing conventional centrifuges with ANFDs. - Preventive maintenance system is in place for checking the condition of equipment and instruments. - Online pH meters have been installed for Scrubbers for effective operation of the scrubbers. -Jacket cooling is provided for solvent storage tanks
v	The solvents shall be recovered by installing fractional distillation columns. The recovered solvents shall be reused in the process or sold to recyclers authorized by TSPCB. The volatile vapors generated during process shall be routed through condensers and the condensate shall be reused in the plant.	<p>Complied.</p> <p>Dedicated solvent recovery system is in place to recover the solvent in the plant premises. All the recovered solvents are re-used in the process. All operations are carried in closed system and reactor vents are connected with primary and secondary condensers to control the process emissions liberation into the environment.</p>
vi	As proposed , green belt of Ac.16.5 shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction and along road sides etc., Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO	<p>Complied.</p> <p>Deep green belt is developed in and around periphery of the site. Green belt developed in total 14.2 Acers in around of the plant which is almost 44% of the site area.</p>
vii	Raw materials shall be transported in covered trucks. Raw materials shall be stored under sheds. All the belt conveyors shall be covered with G.I. sheets. Appropriate dust suppression system shall be provided all around the stockpiles and conveyor system. All the roads in the plant area shall be asphalted/ concreted and water shall be sprinkled to suppress the dust.	<p>Complied.</p> <p>Dedicated Raw material storage facilities are established, and transporting the Raw material through dedicated closed/covered trucks only. Dust suppression system installed at the stockpiles and conveyor system. Maximum roads in the plant made concrete and remaining will be done soon.</p>
viii	Ambient air quality including ambient noise levels must not exceed the standards stipulated under Notification dt.16.11.2009 issued by the MoEF, GoI. Monitoring of ambient air quality and stack emissions shall be carried out regularly in consultation with TSPCB.	<p>Complied.</p> <p>Monthly monitoring of Ambient Air Quality, Ambient Air, Noise and Stack is being carried out by MoEF authorized laboratory. All the results are within the norms stipulated by the Board and submitting the reports to TSPCB every month. Enclosed last 3 months monitoring reports as Annexure-II (Mar, Apr & May'2017)</p>

b)	Water Pollution:	
i	<p>The source of water is Bore -wells within plant site. The total water requirement after expansion shall not exceed 834 KLD. Quantity of water used for: Process is 159.0 KLD; washings is 10.0 KLD; boiler make-up is 90.0 KLD; Cooling tower makeup is 415.0 KLD; Pre-treatment of water in RO/DM Plant 60.0 KLD; Scrubber is 10.0 KLD; Domestic purposes is 50.0 KLD & Gardening is 40.0 KLD.</p>	<p>Complied.</p> <p>The source of water is from outside bore wells due to don't have Bore wells permission within the plant.</p> <p>Water consumption is within in the limits as mentioned in the order.</p>
ii	<p>The total waste water generated after expansion is 310.3 KLD. Out of that, 175.3 KLD is from Process; 10.0 KLD is from washings; 5.0 KLD is from Boiler blow down; 10.0 KLD is from cooling tower bleed of; 60.0 KLD is from Pre-treatment of water in RO/DM Plant; 10.0 KLD is from Scrubber; 40.0 KLD is from Domestic section.</p>	<p>Complied.</p> <p>Wastewater generation will be within in the limits mentioned in the order.</p>
iii	<p>The high TDS and low TDS effluents generated from the process are to be separated and treated separately. The high TDS effluents generated from process, washings & Scrubber shall be disposed into stripper followed by MEE and ATFD. The high TDS effluents generated form Pre-treatment of water in RO/DM Plant shall be disposed to MEE followed by ATFD.</p> <p>The condensate shall be reused in cooling towers after necessary treatment. The LTDS effluents shall be treated in an ETP followed by RO system. Permeate is to be reused in the plant and rejects are to be sent to MEE System. The treated effluents shall be recycled completely.</p> <p>The project proponent shall achieve Zero Liquid Discharge and in no case the effluent shall be discharged outside the factory premises. The sewage generated is to treated in an Sewage Treatment Plant (STP) and the treated waste water shall be reused for gardening. The volatile organics shall be sent to recyclers authorized by TSPCB.</p>	<p>Complied.</p> <p>The Industry has achieved Zero Liquid Discharge (ZLD) and the entire effluent treated in it. Segregation of High TDS & Low TDS effluents and being treated separately in dedicated treatment systems. For High TDS effluents, Primary treatment, Stripper & MEE followed by ATFD is in place. For LOW TDS effluents Primary treatment, Biological treatment followed by RO system is in place.</p> <p>Condensate from MEE and ATFD is being treated in Biological system along with Low TDS effluents. Treated water of Biological system is being polished in Reverse Osmosis plant and the RO reject is treating in MEE. RO Permeate is completely recycling for the plant utilities.</p> <p>Sewage water is being treated in STP and the treated water is subjected to Biological system for further treatment.</p> <p>Enclosed photographs of ZLD system as Annexure-III</p>
iv	<p>The proponent shall provide separate storm water drains and harvest the rainwater from the rooftops to recharge the ground water.</p>	<p>Complied.</p> <p>Storm water drains provided entire the plant. Rain water collection system has been implemented to reuse the water after pretreatment.</p> <p>Enclosed photographs of the Rain Water</p>

		Collection system as Annexure-IV
v	Automatic/online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Industry's website.	Complied. Online RO permeate flow Meter has been installed and also connected to the SPCB & CPCB website. Enclosed photocopies of Online flow Meter as Annexure-V
vi	The industry shall install IP Camera with PAN, TILT Zoom, 5x or above focal length, with night vision capability and flow meters in the channel/drains provided for carrying the effluent from within the premises of the unit.	Complied. IP camera and Flow meter have been installed at the outlet of the ZLD (i.e. RO permeate distribution), uploaded the data to the link provided by CPCB and informed to the office of CPCB wide letter no. HLL-1/EHS/CPCB/09/15-16-01, dated 10/09/2015. Enclosed photocopies of IP camera & flow meter as Annexure-VI
c)	Solid Waste:	
i	Hazardous waste generated from the industry such as waste oils, used oils etc., shall be disposed as per the Hazardous Wastes (Management, Handling, and Trans boundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by TSPCB	Complied. Waste oil is being disposed to the TSPCB authorized recyclers.
ii	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. MSIHC rules are being followed.
iii	The proponent shall comply with the solid waste generated (as per quantities mentioned in EC) after expansion:	Complied. Solid waste generation will be within in the limits mentioned in the order.

B. General Conditions

S. No	Description of Condition	Compliance Status
i.	This order is valid for a period of 7 years	Agreed.
ii	Consent for Establishment shall be obtained from Telangana State Pollution Control Board under Air and Water Act before the start of any activity / construction work at site	Complied. CFE Obtained from TSPCB on Lr.No.16/TSPCB/CFE/RO-RCP-II/HO/2015-2743 Dated: 11/010/2017. Copy of CFE enclosed as Annexure-VII
iii	This order is issued subject to outcome of the cases (if any), pending in the National Green Tribunal, Southern Zone, Chennai or in any other court.	Agreed.
iv	Provision shall be made for the housing of the construction labor within the site with all necessary infrastructure and facilities such as safe drinking water, fuel for cooking, mobile toilets, mobile STP, Medical health care, crèche etc., The housing may be in the form of temporary structures to be removed after the completion of the project. The safe disposal of waste water and solid wastes generated during the construction phase should be ensured	NA The project has been completed
v	No change in the process technology and scope of working should be made without prior approval of the SEIAA, TS. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA, TS/MoEF&CC, GoI, New Delhi, as applicable	Agreed. No changes in the process technology
vi	The proponent shall submit half-yearly compliance reports in respect of the terms and conditions stipulated in this order in hard and soft copies to the SEIAA and CCF, Regional office of MoEF&CC, GoI, Chennai on 1 st June and 1 st December of each calendar year.	Complied. Last second Half yearly compliance report for the year 2016 has been submitted on 23.01.2017 and Letter No: HLL-I/EHS/MoEF/16-17/05
vii	Four ambient air quality - monitoring stations should be established in the core zone as well as in the buffer zone for RSPM, SPM, PM ₁₀ , PM _{2.5} , SO ₂ , NO _x monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution control Board.	Complied. At present Every month Ambient Air quality Monitoring is carried out by MoEF approved (3 rd party) laboratory at 3 strategic locations and reports are being submitted to the SPCB.

viii	Data on ambient air quality (RPM, SPM, PM ₁₀ , PM _{2.5} , SO ₂ , NO _X) should be regularly submitted to the Ministry including its regional office located at Chennai and the state Pollution control Board/ Central Pollution control Board/ Central Pollution Control Board once in six months.	Complied. Every month Ambient Air Monitoring reports are being submitted to the SPCB. Submitting the monitoring reports to the Ministry for every six months along with the compliance report.
ix	Usage of Personnel Protection Equipment's by all employees/workers shall be ensured.	Complied. Providing the necessary PPE to all the employees/workers and giving the trainings to all employees and contract workers on PPE awareness regularly.
x	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.	Complied. Regular safety trainings are being imparted to the employees/workers like Induction trainings, On job Trainings & Monthly trainings on Various topics. Pre-employment and periodical medical examinations are conducting for all employees once in a year and once in six months for Contract employees.
xi	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Project has been completed and there is no possibility of dust generation Periodical health checkups are being conducting to all the workers and evaluating the medical reports. Enclosed few periodical health checkup reports as Annexure-VIII
xii	The industry shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	Complied. Dedicated fire protection/suppression systems are provided for entire plant as below mentioned 1.Fire Hydrant system is covered for entire facility 2.Our own Fire tender is in place 3.Fire Extinguishers 4.Fire sprinkler system 5.Fire Sand Buckets 6.Fire blanketing foam 7.Nitrogen Blanketing system 8.Fire Alarm system
X iii	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive, who will report directly to the head of the Organization.	Complied. Dedicated Environment Department available with suitable qualified personnel to take care of the all Environmental related functions. DGM/Manager will directly report to the Site

		Head. Enclosed Environment Cell organogram as Annexure-IX
xiv	The funds earmarked for environmental protection measures (capital cost of Rs.225 Lakhs and recurring cost of Rs. 1632 Lakhs per annum) & also the funds earmarked for Corporate Social Responsibility (CSR) activities, should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA, Ministry and its Regional office located at Chennai	Complied. Separate account provided for the CSR funds and should not be diverted for other purpose. Enclosed last six months CSR expenditure as Annexure-X
xv	Officials from the regional office of MoEF&CC, GoI, Chennai who would be monitoring the compliance of stipulated conditions and implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional office to MoEF&CC, GoI, Chennai.	Agreed
xvi	The project proponent shall submit the copies of the Environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied EC copies has been submitted to the local bodies & Municipal bodies
xvii	The project authorities should advertise at least in two local newspapers widely circulated one of which shall be in the vernacular language of the locality concerned within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the state pollution control Board and SEIAA, Telangana. This order shall be displayed in the website of the project proponent.	Complied EC Advertisement has been published in local newspaper within seven days of issuing. News Paper advertisement clippings Enclosed as Annexure-XI
xviii	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National green Tribunal Act, 2010.	Agreed
xix	The company shall undertake eco-development measures including community welfare measures in the project area.	Complied. Industry has taken up various eco-development measures and community welfare initiations such as conducting Health camps, sapling plantation, providing drinking water by

		<p>installing drinking water RO Plants, donating note books, school bags and working benches to the schools nearby, constructing bus shelters in the nearby villages and renovating the temples and masjid in the nearby villages. Conducting tournaments for the nearby schools.</p> <p>Photographs of the eco-development & community welfare measures taken Enclosed as Annexure-XII</p>
xx	The proponent shall obtain all other mandatory clearances from respective departments	All Mandatory clearances has been obtained from the respective departments
xxi	Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Agreed
xxii	The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed
xiii	The above conditions will be enforced inter-alia, under the provision of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules	Agreed