



Ref.: ABRPL/SECC/19/2019-20

Date: 23<sup>rd</sup> December 2019

To  
The Conservator of Forests (C)  
Ministry of Environment, Forest and Climate Change  
North Eastern regional Office  
Near MTC Central Workshop,  
Law-u-sib, Lumbatengen,  
SHILLONG -79 30 21

Sub: Submission of Half Yearly Compliance report on Environment Stipulation of EC during the period April' 2019 to September' 2019 for Bio Refinery (Bamboo based Ethanol Project).

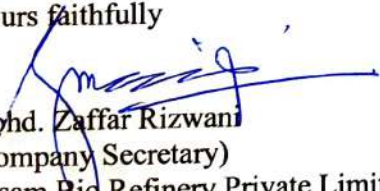
Ref. No: F. No. J-11011/274/2015-IA II (I) dated 19<sup>th</sup> November 2019

Dear Sir,

Kindly find enclosed herewith the point wise Half Yearly Compliance Status for the period April' 2019 to September' 2019, pertaining to the conditions of EC for Bio Refinery (Bamboo based Ethanol Project), ABRPL vide letter No F.No.J- 11011/274/2015-IA II (I) dated 19 Nov, 2019 from MoEF& CC.

Thanking You,

Yours faithfully

  
Mohd. Zaffar Rizwan  
(Company Secretary)  
Assam Bio Refinery Private Limited



Encl.: As above

**COMPLIANCE STATUS ON THE CONDITIONS OF ENVIRONMENTAL CLEARANCE FOR SETTING UP BAMBOO BASED ETHANOL PROJECT OBTAINED VIDE LETTER F.NO. J-11011/274/2015-IA II (I) DATED 19<sup>TH</sup> NOVEMBER 2019 FROM MOEF&CC, NEW DELHI**

Point No.	SPECIAL CONDITIONS	Compliance status
10(a)	The final product shall be used only as a biofuel and not at all for human consumption.	Noted for compliance
10(b)	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.	CTE issued by PCBA on 25.01.19
10(c)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged.	Noted for compliance
10(d)	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.	Noted for compliance
10(e)	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608 (E) dated 21st July 2010 and amended from time to time shall be followed.	Noted for compliance
10(f)	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.	Noted for compliance
10(g)	Solvent management shall be carried out as follows: (i) Reactor shall be connected to chilled brine condenser system. (ii) Reactor and solvent handling pump shall have mechanical seals to prevent leakage. (iii) The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% recovery. (iv) Solvents shall be stored in a separate space specified with all safety measures. (v) proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. (vi) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breath valve to prevent losses. (vii) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	Noted for compliance
10(h)	Total freshwater requirement shall not exceed 2224 cum/day. Prior permission shall be obtained in this regard from the concerned regulatory authority.	Noted for compliance
10(i)	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Noted for compliance
10(j)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys, etc. Flame arrester shall be provided on tank farm and the solvent transfer through pumps.	Noted for compliance





10(k)	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed-off to the TSDF.	Noted for compliance
10(l)	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.	Noted for compliance
10(m)	Fly ash should be stored separately as per CPCB guidelines so that it should not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.	Noted for compliance
10(n)	The company shall undertake waste minimization measures as below: (i) Metering and control of quantities of active ingredients to minimize waste. (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (iii) Use of automated filling to minimize spillage. (iv) Use of Close Feed System into batch reactors. (v) Venting equipment through vapour recovery system. (vi) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Noted for compliance
10(o)	The green belt of at least 10m width shall be developed in more than 30% of the total project area, mainly along the plant periphery, in downward wind direction, and along roadsides etc. As many as 25000 trees to be planted per year during first five years. Selection of Plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.	Noted for compliance
10(p)	All the commitment made regarding issues raised during the Public Hearing/Consultation meeting held on 15 <sup>th</sup> July, 2017 shall be satisfactory implemented.	Noted for compliance
10(q)	At least 2.5% of the total project cost shall be allocated for Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office.	Noted for compliance
10(r)	For the DG sets, emission limits and the stack height shall be in conformity with the extent regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.	Noted for compliance
10(s)	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.	Noted for compliance
10(t)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Noted for compliance
10(u)	Continuous online (24x7) monitoring system for stack emission shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.	Noted for compliance





	<b>GENERIC CONDITIONS:</b>	
10.1(i)	The project authorities must strictly adhere to the stipulations made by the State pollution Control Board (SPCB) State Government and/or any other statutory authority.	Noted for compliance
10.1(ii)	No further expansion or modification in the project shall be carried out without prior approval from the Ministry. 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 environment protection measures required if any.	Noted for compliance
10.1(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the 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 concentration are anticipated.	Noted for compliance
10.1(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) date 16th November 2009 shall be complied with.	Noted for compliance
10.1(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 PAR ules,1 989v iz.75 dBA (daytime) and 70 dBA (nighttime).	Noted for compliance
10.1(vi)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.	Noted for compliance
10.1(vii)	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.	Noted for compliance
10.1(viii)	The company shall comply with all the environmental protection 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 shall be implemented.	Noted for compliance
10.1(ix)	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also, eco- developmental measures shall be undertaken for overall improvement of the environment.	Noted for compliance
10.1(x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be setup to carry out the environmental management on monitoring functions	Noted for compliance
10.1(xi)	The company shall earmark sufficient funds towards capital cost and 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.	Noted for compliance



10.1(xii)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat/ Zila Parishad/ Municipal Corporation/ Urban Local Body and the local NGO if any, from whom suggestion/representation if, any, were received while processing the proposal.	Complied
10.1(xiii)	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&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six-Monthly compliance status report shall be posted on the website of the company.	Noted for compliance. EC copy & six-Monthly compliance status report posted in company web site.
10.1(xiv)	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Noted for compliance
10.1(xv)	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://moef.nic.in">http://moef.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 locally concerned and a copy of the same shall be forwarded to the Regional Office of the Ministry.	Complied.  Public notice published on 18.11.17 in Dainik Janambhumi, Pratidin, Assam Tribune and Sentinel. Copy of the notice published sent to MoEF, RO on 29.11.17.

