

# Assam Bio Refinery Private Limited

CW : U74999AS2018PTC018547

Date: 16th December 2020 Ref.: ABRPL/SECC/19/2020-21

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' 2020 to September' 2020 for Bio Refinery (Bamboo based Ethanol Project).

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

Dear Sir.

Kindly find enclosed herewith the point wise Half Yearly Compliance Status for the period April' 2020 to September' 2020, 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. Zaftar Rizwani (Company Secretary)

Assam Bio Refinery Private Limited

Encl.: As above

## C.C.to:



- cum-Office Complex, East Arjun Nagar, New Delhi, Delhi 110032.
- 2. Assam State Pollution Control Board: Milanpur, West Jyotinagar, Bamunimaidan, Guwahati, Assam 781004.
- 3. Golaghat Regional Pollution Control Board: Regional Office, Pollution Control Board, Assam College Tinali, Near Circiut House, Golaghat, PIN: 785621.

# 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

Sr. No.	Special Conditions	Remarks as on date status		
10 (a)	The final product shall be used only as a bio-fuel and not at all for human consumption	Noted the final product bio-fuel shall be used for blending with petrol.		
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.		rol received from ASPCB dated 25 Jan 20 nd ter		
10 (c)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged.			
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.			
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.			
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)	The state of the s			
	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 condenser 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 storage tanks shall be provided with breadth valve to prevent losses.	Noted for Compliance.		

	VII. All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.	-	
2000	Total fresh water requirement shall not exceed 2224 cum/day. Prior permission shall be obtained in this regard from the concerned regulatory authority.		
0 (i)	Process effluent/any waste water 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)		Noted for Compliance.	
10 (1)	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.		
10 (m)	The state of the s		
	along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.		
10 (n)	along with the storm water. Direct exposure of workers to fly ash & dust should be avoided.	Noted for Compliance.	

	shall be as per the CPCB guidelines in consultation with the State Forest Department.			
10 (p)	All the commitment made regarding issues raised during the Public Hearing/Consultation meeting held on 15 July, 2017 shall be satisfactory implemented.			
10 (q)	SWITH THE SECOND	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.	There is no usage of DG sets for construction power.		
10 (s)	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.	- C		
10 (t)	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	The project is in under construction. The Occupational health surveillance of the workers is undertaken as per BOCV norms.		
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.			
S.NO	General Conditions	Remarks as on date status		
10 (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.	Being Complied.		
10 (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.	THERY AS		

	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.	consultation with ASPCB officials in April 2019.	
0 (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.		
10 (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( day time) and 70 dBA (night time).		
10 (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 (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.	and routine periodical medical examinations for all employees is	
10 (viii			
10 (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.		
10 (x)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities must be setup to carry out the environmental management on monitoring functions.	and 1 Philipping Charles State Africa Philipping Charles Charl	
10 (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		CHERYPR	

	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.	
10 (xii)	proponent to concern 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.	
10 (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.	status of compliance of the stipulated environmental conditions including the results of monitored data report submitted to MoEF&CC, the respective Zonal office of CPCB and SPCB and posted in company website.
10 (xiv)	The environmental statement for each financial year ending 31st 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.	
10 (xv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the	published on 18.11.2017 in Dainik Janambhumi Pratidin, Assam Tribune and Sentinel. Copy of the notice published sent to MoEF RO on 29.11.2017

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Report No.: ENV/ABRPL/EM/20-21/A-01

Date : 19/09/2020

Order No.: Verbal Date : 03/09/2020

### **ASSAM BIO REFINERY PRIVATE LIMITED**

Numaligarh, Dist. - Golaghat (Assam)

# **AMBIENT AIR QUALITY TEST RESULTS**

Sl. No.	LOCATION(S)↓	Date of Sampling	<b>PM 2.5</b> (μg/m³)	<b>PM 10</b> (μg/m³)	<b>SO</b> <sub>2</sub> (μg/m³)	<b>NO</b> <sub>2</sub> (μg/m³)
	LIMIT(S) →		60	100	80	80
01	Near Labour Rest Shed (ABRPL Project Campus West Side)	11.09.2020	30.4	77.9	6.3	10.8
02	Near Electric Sub-Station (ABRPL Project Campus East Side)	11.09.2020	27.6	71.4	5.6	9.2
03	Near Rajabari Village (ABRPL Project Campus North Side)	12.09.2020	21.8	58.7	4.1	7.9

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

**NOTE:** 1. Results reported are valid at the time of and under the prevailing conditions of measurement.

- $2. \ Results \ refer \ only \ to \ the \ particular \ parameters \ tested.$
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Report No.: ENV/ABRPL/EM/20-21/N-01

Date : 19/09/2020

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Date : 03/09/2020

### **ASSAM BIO REFINERY PRIVATE LIMITED**

Numaligarh, Dist. - Golaghat (Assam)

# **NOISE LEVEL MEASUREMENT RESULTS**

Sl. No.	Location(s)	Date Of Measurement	Result(s) (Day Time)		Result(s) (Night Time)	
			L <sub>eq</sub> (dB-A)	Limit (dB-A)	L <sub>eq</sub> (dB-A)	Limit (dB-A)
1	Near Piling Job of Tank Stand Area at ABRPL Project Site (South- West Side)	11.09.2020	71.5	75	57.3	70
2	Near Piling Job of Tank Stand Area at ABRPL Project Site (East Side Near Sub-Station)	11.09.2020	72.6	75	58.7	70
3	Near Rajabari Village (ABRPL Project Campus North Side)	12.09.2020	61.4	75	44.6	70



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE: 1

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Report No.: ENV/ABRPL/EM/20-21/W-01

Date : 19/09/2020

Order No.: Verbal Date : 03/09/2020

> Analysis Protocol: IS 3025 ND: Not Detected

#### **ASSAM BIO REFINERY PRIVATE LIMITED**

Numaligarh, Dist. - Golaghat (Assam)

#### **GROUND WATER ANALYSIS RESULTS**

Sample Ref. No. : ABRPL/2020/DW-1209/01 Sample Source : Deep Tube Well, ABRPL Sample Type : Ground Water

Collected On : 12-09-2020 Collected By : ENVIROCON & Client

Sl. No.	Parameters	Results	Desirable Limit (IS:10500:2012)
01	Colour , Hazen Units, Max	1	5
02	Odour	Odourless	Agreeable
03	Taste	Acceptable	Agreeable
04	Turbidity, NTU, Max	0.3	1.0
05	рН	6.79	6.5 - 8.5
06	Total Dissolved Solids, mg/l, Max	84	500
07	Aluminium (as Al), mg/l, Max	ND	0.03
08	Boron (as B), mg/l, Max	ND	0.5
09	Calcium (as Ca), mg/l, Max	24	75
10	Chloride (as Cl), mg/l, Max	19	250
11	Copper (as Cu), mg/l, Max	ND	0.05
12	Fluorides (as F), mg/l, Max	0.16	1.0
13	Free Residual Chlorine, mg/l, Min	ND	0.2
14	Iron (as Fe), mg/l, Max	0.25	0.3
15	Magnesium (as Mg), mg/l, Max	3.7	30
16	Manganese (as Mn), mg/l, Max	ND	0.1
17	Zinc (as Zn), mg/l, Max	ND	5.0
18	Nitrate (as NO <sub>3</sub> ), mg/l, Max	3.2	45
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH), mg/l, Max	ND	0.001
20	Sulfate (as SO <sub>4</sub> ), mg/l, Max	18	200
21	Total Alkalinity(as CaCO <sub>3</sub> ), mg/l, Max	76	200
22	Total Hardness, (as CaCO <sub>3</sub> ), mg/l, Max	12	200
23	Cyanide (as CN), mg/l, Max	ND	0.05
24	Lead (as Pb), mg/l, Max	ND	0.01
25	Total Arsenic (as As), mg/l, Max	ND	0.01
26	Total Chromium, (as Cr), mg/l, Max	ND	0.05
27	E. Coli / 100 ml	Absent	Absent
28	Faecal Coliform	Absent	Absent



Checked By: Mr. Pankaj Baroi, ENVIROCON

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