

# **Assam Bio Refinery Private Limited**

CIN: U74999AS2018PTC018547

Ref.: ABRPL/EHS/2023/12/01

Date: 28th Dec,2023

To,
The Inspector General of Forests (C)
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office,
4<sup>th</sup> Floor, HOUSEFED Building,
G.S.Road, Rukminigaon,
Guwahati -781022

Sub: Submission of Half Yearly Compliance report on Environment Stipulation of EC during the period April'2023 to September'2023 for Bio Refinery (Bamboo based Ethanol Project).

Ref. No:

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

2) F. No. J-11011/274/2015-IA II (I) dated 05th January, 2021

Dear Sir,

Kindly find enclosed herewith the point wise Half Yearly Compliance Status for the period April'2023 to September'2023, 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

Sidhartha Sankar Kowndilya

Assistant Manager-EHS,

Assam Bio Refinery Private Limited.

**Encl.:** 1. Six monthly compliance status of EC conditions.

2. Results of monitored data

#### C.C.to:

 Central Pollution Control Board Regional Directorate Shillong: "Tum-Sir". Lower Motinagar, Near Fire Brigade H.Q., Shillong 793014

2. Assam State Pollution Control Board: Pollution Control Board Assam, Bamunimaidam, Guwahati - 21

 Golaghat Regional Pollution Control Board: Pollution Control Board, Assam College Tinali, Near Circiut House, Golaghat, PIN: 785621.

S.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.	The Consent to Establish (CTE) was received from ASPCB dated 25 Jan 2019.	
10 (c)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged.	Currently the project is under construction phase and hence no liquid waste is being generated. 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.	Registration complted and application approved by Pollution Control Board for importing of plastic as packing material.  Currently the project is under construction phase. Noted for Compliance with respect to other wastes in the future.	
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.	Currently the project is under construction phase. Noted for	
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.	Currently the project is under construction phase. 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 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.	Compliance.	

	VII. All the solvent storage tanks shall be connected with vent condensers with	
	chilled brine circulation.	
10 (h)	Total fresh water requirement shall not exceed 2224 cum/day. Prior permission	NOC obtained for ground water abstraction. NOC No:
	shall be obtained in this regard from the concerned regulatory authority.	CGWA/NOC/IND/ORIG/2022/14641
10 (i)	Process effluent/any waste water shall not be allowed to mix with storm water.	Currently the project is under construction phase. Noted for
	Storm water drainshall be passedthroughguardpond.	Compliance.
10 (j)	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys, etc. Flame	Currently the project is under construction phase. Noted for
	arrester shall be provided on tank farm and the solvent transfer through pumps.	Compliance.
10 (k)	Process organic residue and spent carbon, if any, shall be sent to cement industries.	Currently the project is under construction phase. Noted for
	ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	Compliance.
10 (I)	The company shall strictly comply with the rules and guidelines under Manufacture,	Currently the project is under construction phase. Noted for
	Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time	Compliance.
	to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle	
	ACT (MVA), 1989.	
10 (m)	Fly ash should be stored separately as per CPCB guidelines so that it should not	Currently the project is under construction phase. Noted for
	adversely affect the air quality, becoming air borne by wind or water regime during	Compliance.
	rainy season by flowing along with the storm water. Direct exposure of workers to	
10 ( )	fly ash & dust should be avoided.	
10 (n)	The company shall undertake waste minimization measures as below:	Comments the granication and a constant time above Netted for
	i Matorina and soutral of acceptation of active in anodicute to reining to conta	Currently the project is under construction phase. Noted for
	<ul><li>i. Metering and control of quantities of active ingredients to minimize waste.</li><li>ii. Reuse of by-products from the process as raw materials or as raw material</li></ul>	Compliance.
	<ol> <li>Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.</li> </ol>	
	iii. Use of automated filling to minimize spillage.	
	iv. Use of Close Feed System into batch reactors.	
	v. Venting equipment through vapor recovery system.	
	vi. Use of high pressure hoses for equipment clearing to reduce wastewater	
	generation.	
10 (o)	The green belt of at least 10m width shall be developed in more than 33% of the	Currently the project is under construction phase. Noted for
. ,	total project area, mainly along the plant periphery, in downward wind direction,	Compliance.
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	five years. Selection of Plant species shall be as per the CPCB guidelines in	
	consultation with the State Forest Department.	
	consultation with the state rolest bepartment.	
10 (p)	All the commitment made regarding issues raised during the Public	Being Complied.
- ( - /	Hearing/Consultation meeting held on 15 July, 2017 shall be satisfactory	
	implemented.	
10 (q)	At least 2.5% of the total project cost shall be allocated for Enterprise Social	Being Complied.
	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.	Copy of detailed proposed ESC shared with last report (for
	(Original EC condition dated 6 <sup>th</sup> November 2017	the period of Apr'22-Sep'22).
		ESC spending against public hearing issues = Rs.22,20,883/-
	At least 0.5% of the Project Cost shall be allocated for addressing issues raised during	
	the Public hearing and 2% for sustainable babmoo feedstock value chain. Item-wise	ESC spending against sustainable feedstock value chain =
	details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office. (Amended EC condition dated 5 <sup>th</sup> January 2021)	Rs.2,39,56,324/-
	Willistry Regional Office. (Affieliaed EC Condition dated 5° January 2021)	
10 (r)	For the DG sets, emission limits and the stack height shall be in conformity with the	The project is under construction. There is no usage of DG sets for
	extent regulations and the CPCB guidelines. Acoustic enclosure shall be provided to	construction power. The required power is being supplied by NRL.
	DG set for controlling the noise pollution.	
10 (s)	The unit shall make the arrangement for protection of possible fire hazards during	Currently the project is under construction phase and fire fighting
	manufacturing process in material handling. Firefighting system shall be as per the	systems are being installed as per requirement at offices, porta-
	norms.	cabins and rest sheds. Noted for Compliance.
10 (t)	Occupational health surveillance of the workers shall be done on a regular basis and	The project is under construction. The Occupational health
	records maintained as per the Factories Act.	surveillance of the workers is undertaken as per BOCW norms.
10 (u)	A continuous online (24x7) monitoring system for stack emission shall be installed	Currently the project is under construction phase. Noted for
	for measurement of flue gas discharge and the pollutants concentration, and the	Compliance.
	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.	·
10 (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.	Currently the project is under construction phase. Noted for Compliance, post commissioning.
10 (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.	Being complied. Report attached.
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 PARA Rules,1989 viz. 75 dBA( day time) and 70 dBA (night time).	Compliance.
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.	
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.	medical examinations for all employees is being complied as per
10 (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 (ix)	The company shall undertake all measures for improving socio-economic conditions	Noted for Compliance.
	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	Currently the project is under construction phase. Noted for
	facilities must be setup to carry out the environmental management on monitoring	Compliance.
	functions.	
10 (xi)	The company shall earmark sufficient funds towards capital cost and recurring cost	Noted for Compliance.
	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.	
10 (xii)	A copy of clearance letter shall be sent by the proponent to concerned Panchayat/Zila	Complied.
	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	Being Complied. Six monthly report on status of compliance of the
	compliance of the stipulated Environmental Clearance conditions including results of	stipulated environmental conditions including the results of
	monitored data (both in hard copies as well as by e-mail) to the respective Regional	monitored data report submitted to MoEF&CC, the respective Zonal
	Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of	office of CPCB and SPCB and posted in company website.
	Environmental Clearance and six Monthly compliance status report shall be posted	
	on the website of the company.	
10 (xiv)	The environmental statement for each financial year ending 31st March in Form-V as	Being Complied.
	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	Being Complied. Public notice was
	environmental clearance by the Ministry and copies of the clearance letter are	DainikJanambhumi , Pratidin, Assa
	available with the SPCB/Committee and may also be seen at Website of the Ministry	the notice published sent to MoEI
	at http:/moef.nic.in. 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.	

Being Complied. Public notice was published on 18.11.2017 in DainikJanambhumi, Pratidin, Assam Tribune and Sentinel. Copy of he notice published sent to MoEF RO on 29.11.2017

Envirocon Building, I.O.C.L (AOD) New Market P.O.: Digboi, Dist.: Tinsukia, Assam – 786 171 Ph: 03751-264414, 9435008657, 8876028672

E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Format No.: ENV/R/TR/19/RW-01

#### RAW WATER TEST REPORT

Rev. No.: 00

ULR No.	NA COLLEGE COL						
Report No.	ENV/TR/ABRL/23-24/RW-01	Issue Date	15/09/2023				
Order No.	4300000337-BOR	Order Date	18/05/2021				
Report Issued To	ASSAM BIO REFINERY PRIVATE LIMITED	/ROCOF	i envrocon er				
Legore issued to	Numaligarh, Dist. – Golaghat (Assam)	POCOL	1 couleacon co				

Sample Ref. No.:	ABRL/2023/RW- 0509/01	Sample Source:	Deep Tube - Well	Sample Type:	Raw Water/Ground Water
Date of Sampling:	05.09.2023	Sample Receipt Date:	06.09.2023	Sample Quantity:	2HVROCON E
Analysis Start Date:	07.09.2023	Analysis End Date:	14.09.2023	Sampled By:	Bidyut Kalita, Envirocon

## ENVROCON ENVROCOREST RESULTS CON ENVROCON ENVROC

Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour	IS 3025 (Part 4)	5	PCU	5 60	15
2.	Odour	IS 3025 (Part 05)	Odourless	VI I CI I D	Agreeable	Agreeable
3.	Taste	IS 3025 (Part 07)	Tasteless	HEIN	Agreeable	Agreeable
4.	Turbidity	IS 3025 (Part 10)	0.43	NTU	Rocan ∈n'	/ROCON E
5.	pH	IS 3025 (Part 11)	6.71	nenv	6.5 - 8.5	No Relaxation
6.	Total Dissolved Solids	IS 3025 (Part 16)	136	mg/l	500	2000
7.	Aluminium (as Al)	IS 3025 (Part 55)	BDL[MDL:0.001]	mg/l	0.03	0.2
8.	Boron (as B)	IS 3025 (Part 57)	BDL[MDL:0.001]	mg/l	BOC 0.5	1.0
9.	Calcium (as Ca)	IS 3025 (Part 40)	31	mg/l	ROC 75 EN	200
10.	Chloride (as Cl)	IS 3025 (Part 32)	4.2	mg/l	250	1000
11.	Copper (as Cu)	IS 3025 (Part 42)	BDL[MDL:0.001]	mg/l	0.05	1.5
12.	Fluorides (as F)	IS 3025 (Part 60)	0.1	mg/l	1.0	1.5
13.	Free Residual Chlorine	IS 3025 (Part 26)	BDL[MDL:0.01]	mg/l	0.2	VISOCOLI E
14.	Iron (as Fe)	IS 3025 (Part 53)	0.24	mg/l	0.3	No Relaxation
15.	Magnesium (as Mg)	IS 3025 (Part 46)	BDL[MDL:1.0]	mg/l	30	100
16.	Manganese (as Mn)	IS 3025 (Part 59)	BDL[MDL:0.001]	mg/l	0.1	0.3
17.	Zinc (as Zn)	IS 3025 (Part 49)	BDL[MDL:0.01]	mg/l	5.0	15
18.	Nitrate (as NO <sub>3</sub> )	IS 3025 (Part 34)	BDL[MDL:0.1]	mg/l	45	No Relaxation
19.	Phenolic Compound (as C <sub>6</sub> H <sub>5</sub> OH)	IS 3025 (Part 43)	BDL[MDL:0.001]	mg/l	0.001	0.002
20.	Sulfate (as SO <sub>4</sub> )	IS 3025 (Part 24)	42	mg/l	200	400

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit

<sup>\*</sup> Limits as per IS 10500:2012



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 1 of 2

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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E-mail: envirocon@rediffmail.com

ISO 9001:2015 Certified ISO 45001:2018 Certified

Format No.: ENV/R/TR/19/RW-01

RAW WATER TEST REPORT

Rev. No.: 00

ULR No.	NA POUT OF TOTAL OF THE POUT O	HOCO	Idinhocolid
Report No.	ENV/TR/ABRL/23-24/RW-01	Issue Date	15/09/2023
Order No.	4300000337-BOR	Order Date	18/05/2021
Report Issued To	ASSAM BIO REFINERY PRIVATE LIMITED	ROCOL	i envrocon er
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ROCC	TEST RESULTS						
Sl. No.	Parameters	Test Method	Results	Units	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source	
21.	Total Alkalinity(as CaCO <sub>3</sub> )	IS 3025 (Part 23)	72	mg/l	200	600	
22.	Total Hardness, (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	127	mg/l	200	600	
<b>23</b> .	Cadmium (as Cd)	IS 3025 (Part 41)	BDL[MDL:0.001]	mg/l	0.003	No Relaxation	
24.	Cyanide (as CN)	IS 3025 (Part 27)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation	
25.	Lead (Pb)	IS 3025 (Part 47)	BDL[MDL:0.001]	mg/l	0.01	No Relaxation	
26.	Mercury (Hg)	IS 3025 (Part 48)	BDL[MDL:0.001]	mg/l	0.001	No Relaxation	
27.	Nickel (as Ni)	IS 3025 (Part 54)	BDL[MDL:0.001]	mg/l	0.02	No Relaxation	
<b>=</b> 28.	Total Arsenic (as As)	IS 3025 (Part 37)	BDL[MDL:0.001]	mg/l	0.01	0.05	
29.	Total Chromium, (as Cr)	IS 3025 (Part 52)	BDL[MDL:0.001]	mg/l	0.05	No Relaxation	
30.	Total Coliform Bacteria	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent	
31.	E. Coli	CPCB Guidelines	Absent	MPN/100 ml	Absent	Absent	

\*End of Report\*

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum Detectable Limit



Authorised Signatory: Mr. Pankaj Baroi (Director)

Page 2 of 2

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- 2. Results refer only to the particular parameters tested.
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<sup>\*</sup> Limits as per IS 10500:2012

ISO 9001:2015 Certified ISO 45001:2018 Certified

Rev. No.: 00

Format No.: ENV/R/TR/19/AA-01

## AMBIENT AIR TEST REPORT

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ULR No.	NAIDCOILE IDIOCOILE IDIOCOILE ID	HULUI	TELINHOCOLLE
Report No.	ENV/TR/ABRL/23-24/A-01	Issue Date	15/09/2023
Order No.	4300000337-BOR	Order Date	18/05/2021
Report Issued To	ASSAM BIO REFINERY PRIVATE LIMITED	/ROCOF	1 ENVROCON EN
Report Issued To	Numaligarh, Dist. – Golaghat (Assam)		n covisor on cr

Sample Ref. No.:	ABRL/2023/A-0409/01	Sample Source:	East Side- Near Seuj Dwar	Weather Condition:	Clear & Calm
Date of Sampling:	04.09.2023	Sample Receipt Date:	06.09.2023	Instrument Used:	FPS, RDS & Gaseous Attachment
Analysis Start Date:	07.09.2023	Analysis End Date:	09.09.2023	Sampled By:	Bidyut Kalita, Envirocon

# IVIROCON ENVIROCOITEST RESULTS ON ENVIROCON ENVIROCON EN

Sl. No.	Parameters VHOCO	Test Method	Results	Units	Limits*
ROCO	Particulate Matter (size less than 2.5 $\mu m)$ or $PM_{2.5}$	IS 5182 (Part 24)	17.5	μg/m³	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 $\mu$ m) or PM $_{10}$	IS 5182 (Part 23)	48.6	μg/m³	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	5.8	μg/m³	80 (24 Hours Average)
ROCOI	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 5182 (Part 6)	∩ ∈	μg/m³	80 (24 Hours Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum

\*\*\*\*\*\*\*End of Report\*\*\*\*\*



Authorised Signatory: Mr. Pankaj Baroi (Director)

- 2. Results refer only to the particular parameters tested.
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<sup>\*</sup> Limits as per G.S.R. 826(E), 16.11.2009



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Format No.: ENV/R/TR/19/AA-01

### **AMBIENT AIR TEST REPORT**

Rev. No.: 00

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ı	Report No.	ENV/TR/ABRL/23-24/A-02	Issue Date	15/09/2023			
-	Order No.	4300000337-BOR	Order Date	18/05/2021			
Ų	Report Issued To	ASSAM BIO REFINERY PRIVATE LIMITED	ROCOL	i envrocon er			
ı	Report Issued To	Numaligarh, Dist. – Golaghat (Assam)	Pocor	1 couisocon co			

Sample Ref. No.:	ABRL/2023/A-0409/02	Sample Source:	West Side- Near Acid-Alkali Neutralisation Pit	Weather Condition:	Clear & Calm
Date of Sampling:	04.09.2023	Sample Receipt Date:	06.09.2023	Instrument Used:	FPS, RDS & Gaseous Attachment
Analysis Start Date:	07.09.2023	Analysis End Date:	09.09.2023	Sampled By:	Bidyut Kalita

# OF ENVIROCOFTEST RESULTS OF ENVIRON

Sl. No.	Parameters VHOCOI	Test Method	Results	Units	Limits*
ROCO	Particulate Matter (size less than 2.5 $\mu m)$ or $PM_{2.5}$	IS 5182 (Part 24)	15.2	μg/m³	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 $\mu$ m) or $PM_{10}$	IS 5182 (Part 23)	44.3	μg/m³	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	5.5	μg/m³	80 (24 Hours Average)
ROCOI	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 5182 (Part 6)	∩ ∈ (6.1 B) (	μg/m³	80 (24 Hours Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum

\*\*\*\*\*\*\*End of Report\*\*\*\*\*



Authorised Signatory: Mr. Pankaj Baroi (Director)

- 2. Results refer only to the particular parameters tested.
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<sup>\*</sup> Limits as per G.S.R. 826(E), 16.11.2009

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Format No.: ENV/R/TR/19/AA-01

### **AMBIENT AIR TEST REPORT**

Rev. No.: 00

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ı	Report No.	ENV/TR/ABRL/23-24/A-03	Issue Date	15/09/2023			
-	Order No.	4300000337-BOR	Order Date	18/05/2021			
Ų	Report Issued To	ASSAM BIO REFINERY PRIVATE LIMITED	/ROCOF	i envrocon er			
ı	DOVOD CO	Numaligarh, Dist. – Golaghat (Assam)	ibocor	1 coulencon co			

Sample Ref. No.:	ABRL/2023/A-0409/03	Sample Source:	North Side- Near Rajabari Village	Weather Condition:	Clear & Calm
Date of Sampling:	04.09.2023	Sample Receipt Date:	06.09.2023	Instrument Used:	FPS, RDS & Gaseous Attachment
Analysis Start Date:	07.09.2023	Analysis End Date:	09.09.2023	Sampled By:	Bidyut Kalita

## TEST RESULTS

Sl. No.	Parameters VHOCOI	Test Method	Results	Units	Limits*
HQCOI	Particulate Matter (size less than 2.5 μm) or PM <sub>2.5</sub>	IS 5182 (Part 24)	13.4	μg/m³	60 (24 Hours Average)
2.	Particulate Matter (size less than 10 $\mu$ m) or $PM_{10}$	IS 5182 (Part 23)	42.7	μg/m³	100 (24 Hours Average)
3.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2)	BDL [MDL: 5.0]	μg/m³	80 (24 Hours Average)
BC4:001	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 5182 (Part 6)	BDL [MDL: 5.0]	μg/m³	80 (24 Hours Average)

NA: Not Applicable, BDL: Below Detectable Limit, MDL: Minimum

\*\*\*\*\*\*\*\*End of Report\*\*\*\*\*



Authorised Signatory: Mr. Pankaj Baroi (Director)

- 2. Results refer only to the particular parameters tested.
- $3.\ This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi 786171, Assam.$

<sup>\*</sup> Limits as per G.S.R. 826(E), 16.11.2009



ISO 9001:2015 Certified ISO 45001:2018 Certified

Format No.: ENV/R/TR/19/N-01

### **NOISE LEVEL TEST REPORT**

Rev. No.: 00

ULR No.	NA TOCOTTE I BROCOTTE I BROCOTTE I	VINCEO	TELINHOCOITE
Report No.	ENV/TR/ABRL/23-24/N-01	Issue Date	15/09/2023
Order No.	4300000337-BOR	Order Date	18/05/2021
Report Issued To	ASSAM BIO REFINERY PRIVATE LIMITED  Numaligarh, Dist. – Golaghat (Assam)	VROCO	n €nvrocon €

Sample Ty	уре:	Ambient Noise	Category of Area/	Zone:	Industrial Area	Date of Monitoring:	04.09.2023
Sound Me	ter Used:	SL-4030/Lutron	ROCOTT		Sampled By:	Bidyut Kalita, Enviroco	WROCOLLE
VIROC	TEST RESULTS						MIROCONE
Sl. No.	oner	Locations	JRocon e	ENV	ime Duration	Test Method	Result Leq dB (A)
VIAOC	East Side:	Near Seuj Dwar	JROCON (	(6:0	Day Time 0 AM - 10:00 PM)	IS 9989 (RA 2020)	61.4
<b>7</b> -2.0 C	West Side:	Near Sub - Station Building	/Rocon e	(6:0	Day Time	IS 9989 (RA 2020)	65.2

			(0.001111 10.001111)	46	and the second s
U	2.00	West Side: Near Sub - Station Building	Day Time (6:00 AM - 10:00 PM)	IS 9989 (RA 2020)	65.2
U	3.	North Side: Near Rajabari Village	Day Time (6:00 AM - 10:00 PM)	IS 9989 (RA 2020)	40.8
	4.	East Side: Near Seuj Dwar	Night Time (10:00 PM - 6:00 AM)	IS 9989 (RA 2020)	49.7
	5.	West Side: Near Sub - Station Building	Night Time (10:00 PM - 6:00 AM)	IS 9989 (RA 2020)	52.6
	6.	North Side: Near Rajabari Village	Night Time (10:00 PM - 6:00 AM)	IS 9989 (RA 2020)	35.6

#### Limit:

ROCCI ENVIROCE	Limit in dB (A) L <sub>eq</sub>			
Category of Area / Zone	Day Time	Night Time		
Industrial Area	on er <sup>75</sup> /Boc			
Commercial Area	65	55		
Residential Area	55	45		
Silence Zone	50	40		

\*\*\*\*\*\*\*\*End of Report\*\*\*\*\*



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