



# ASSAM PETRO-CHEMICALS LIMITED

(A Government of Assam Undertaking) | An ISO 9001:2008 Certified Company  
CIN- U24116AS1971SGC001339. GSTN: 18AABCA6913A1Z6

## Head Office & Factory Site:

Assam Petro-chemicals Ltd., Namrup, P.O. Parbatpur,  
District. Dibrugarh, Assam-786623  
Phone (0374) 2500331/2500246/2500518. Fax (0374) 2500231  
Email: nrpapl@sancharnet.in, admin\_apl@assampetrochemicals.co.in

Ref: APL/Proj/04/2019/720/3668

Date: 31.12. 2019

To  
The Addl. Principal Chief Conservator of Forest(C)  
Ministry of Environment, Forest and Climate Change  
North Eastern Regional Office (NEZ)  
Low-u-Sib, Lumbatngen, Near MTC Workshop  
Shillong- 793021

Kind Attention: Shri S.K. Aggarwal, IFS

**Subject: Half yearly compliance report of specific and general conditions of Environmental Clearance (EC) for the expansion of Methanol Plant (from 100 TPD to 600 TPD) and Formaldehyde Plant (100 TPD) and addition of Acetic Acid Plant (200 TPD) and Captive Power Plant (5 MW) of M/s Assam Petro-Chemicals Ltd. at village Namrup, District- Dibrugarh, Assam**

**Reference: EC letter No.: F.no J-11011/469/2011-IA II(I) dated 19.05.2014**

Respected Sir,

In compliance of the specific and general conditions as stipulated in the Environmental Clearance (EC) accorded by Ministry of Environment, Forest and Climate Change for the above expansion project, please find herewith our compliance report for the six-month period.

POINT NO	DESCRIPTION	APL's COMPLIANCE
<b>A. SPECIFIC CONDITIONS</b>		
(i)	Environment clearance is subject to their obtaining prior clearance from the Standing Committee of the National Board for Wildlife as applicable regarding Patkai Wildlife Sanctuary. Grant of environmental clearance does not necessarily imply that wildlife clearance shall be granted to the project and their proposals for wildlife clearance will be considered respective authorities on their merits and decision taken. No work at the site shall be started without prior permission. The investment made in the project, if any based on environmental clearance so granted, in anticipation of the clearance from wildlife angle shall be entirely at the cost and risk of the project proponent and Ministry of Environment & Forests shall not be responsible in this regard in any manner and all the recommendations shall be implemented in a time bound manner.	36 <sup>th</sup> meeting of the Standing Committee of National Board for Wildlife (NBWL), held on Nov 4, 2015 at New Delhi, approved the project.



Regd. Office: 4th Floor, Orion Place  
Mahapurush Srimanta Sankardev Path, Bhagagarh, Guwahati, Assam-781005  
Phone/Fax: (0361) 2461470/2461471/2461594  
Email: aplguw@bsnl.in Web: www.assampetrochemicals.co.in



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(ii)	<p>The project proponent shall prepare a plan for reducing leopard-human and elephant-human conflict in consultation with the Wildlife/Forest Department of the Government of Assam within 10km of the project site.</p>	<p>We have already prepared the management plan and the same was already submitted to your good office along with earlier compliances.</p> <p>We have already complied some of the recommendations made in the report, some of which are mentioned below:</p> <p><b>Recommendation 1 : Keep a vigil on human wildlife conflict.</b></p> <p>We are keeping close coordination with forest department for wildlife conflict. In this connection, we are regularly doing correspondence with the Beat Officer, Namrup Forest Division.</p> <p><b>Recommendation 2: Regular monitoring of the conflict incidents.</b></p> <p>As of now we have not been reported any wildlife conflict.</p> <p><b>Recommendation 3: Watch tower</b></p> <p>A high-resolution CCTV with 1 km surveillance radius has been installed for 24 x 7 monitoring the boundary and the probable conflict zones by our APL security personnel. Further, three numbers of Permanent watch towers will be constructed near the Wildlife Sanctuary to keep vigil on any unauthorised activities. (photograph of CCTV installed is enclosed in <b>Annexure I</b> for your ready reference).</p>
(iii)	<p>Adequate stack height shall be provided to gas turbine as per CPCB/ Assam State Pollution Control Board (ASPCB) guidelines to disperse gases emission into the atmosphere. Low NOx burners shall be provided with on-line analysers.</p>	<p>Existing plant do not have provision for gas turbine.</p> <p>However, in the 500TPD Methanol Project, adequate stack height has been maintained in the design of Gas Turbine by following CPCB/ASPCB guidelines to disperse gas emission into the atmosphere and also low NO<sub>x</sub> burners are provided with online analysers.</p> <p>(Copy of Structural drawing showing stack height is enclosed as <b>Annexure II</b> for your ready reference).</p>



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(iv)	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R.No.826(E) dt.16th Sept,2009. The levels of PM2.5, PM10, SO <sub>2</sub> , NO <sub>x</sub> , CO and VOC shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MoEF, the respective Zonal office of CPCB and ASPCB. One air quality monitoring station shall be set up at Namrup Beat Office under Jeypore range of Dibrugarh Division of Forest Dept.	For the existing plant, the ambient air levels of PM2.5, PM10, SO <sub>2</sub> , NO <sub>x</sub> , CO and VOC are continuously monitored through online system and also regular monitoring is done by engaging M/S Greenzone Environment Laboratory.  (Reports of continuous online monitoring and M/s Greenzone monitoring report is enclosed as <b>Annexure III</b> for your ready reference ).  For 500TPD Methanol Project, the provision for online continuous monitoring of ambient air quality has already been made and procurement activities has already been started.
(v)	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled providing closed storage, closed handling & conveyance of chemicals/materials, scrubber and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials, storage area etc. shall be regularly monitored. The emissions shall conform to the limits stipulated by the ASPCB. Regular monitoring of Volatile Organic Compound (VOCs) should be carried out.	In the existing plant, we have been closely handling & conveyance of chemicals/materials. Provision for the same is also made in the 500TPD Methanol Project. For checking fugitive emission from different sources has been done by engaging M/S Greenzone Environment Laboratory by collecting samples at different locations. (Reports are enclosed as <b>Annexure III</b> for your ready reference)



*S/K*

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(vi)	<p>For further control of fugitive emissions, following steps shall be followed:</p> <ol style="list-style-type: none"> <li>1. Closed handling system shall be provided for chemicals.</li> <li>2. Reflux condenser shall be provided over reactor.</li> <li>3. System of leak detection and repair of pump/pipeline based on preventive maintenance.</li> <li>4. The acids shall be taken from storage tanks to reactors through closed pipeline. Storage tanks shall be vented through trap receiver and condenser operated on chilled water.</li> <li>5. Cathodic protecting shall be provided to the underground solvent storage tanks.</li> </ol>	<p>Following provisions has been taken:</p> <ol style="list-style-type: none"> <li>1. Liquid drains containing Methanol are taken to closed blowdown system which is recycled. Gaseous vents containing H<sub>2</sub>, CO, Methanol, CO<sub>2</sub>, CH<sub>4</sub> are taken to flare through a relief network.</li> <li>2. Not Applicable</li> <li>3. Gas detection system is provided. Appropriate mechanical seals are provided for rotating machineries based on the services and operating conditions to avoid spillage of liquid. During operation, regular monitoring will be carried out so that repairing/ preventive maintenance shall be carried out on regular basis.</li> <li>4. The acids shall be taken from storage tanks to reactors through closed pipeline – Not Applicable. Vents of the Methanol storage tanks will be scrubbed in Vent Wash Column before combustion in the 500 TPD Methanol project.</li> <li>5. Cathodic protection has been provided for underground vessels like CBD drum etc. in the 500TPD Methanol project. (Copy of mechanical drawing of cathodic protection system is enclosed as <b>Annexure-IV</b> for your ready reference)</li> </ol>
(vii)	<p>The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.</p>	<p>In the existing plant, DG sets are used only for emergency purpose and it is old indoor type. Adequate stack height for gas emissions and acoustic enclosure for DG sets as per CPCB standards has been provided in 500TPD Methanol project. (Copy of structural drawing of DG acoustic encloser is enclosed as <b>Annexure-V</b> for your ready reference)</p>
(viii)	<p>Total fresh water requirement from River Dilli shall not exceed 2809 m<sup>3</sup>/day after expansion and prior permission shall be obtained from the Competent Authority</p>	<p>Prior permission has already been received from the Competent Authority for drawal of 8400 m<sup>3</sup>/day. However, total fresh water requirement from River Dilli will not exceed 2809 m<sup>3</sup>/day after expansion also.</p>



*Handwritten signature*

Head Office: 3rd Floor, Orion Place  
Mamrupur Shrimanta Sankardev Path, Bhagagarh, Guwahati, Assam-781005  
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(ix)	Industrial effluent generating shall not exceed 1443 m <sup>3</sup> /day. Industrial effluent shall be treated in ETP comprises primary, secondary and tertiary treatment facilities. RO rejects shall be concentrated in MEE. Treated effluent (894 m <sup>3</sup> /day) shall be reused/recycled in process or horticulture purpose. Water quality of treated effluent shall meet the norms prescribed by CPCB/ SPCB.	In the existing plant, effluent generated are continuously monitored and treated in ETP meeting the norms prescribed by CPCB/SPCB. (Copy of online monitoring is enclosed as <b>Annexure-VI</b> for your ready reference).  Water block package for 500TPD Methanol Plant has been designed to meet the norms prescribed by CPCB/ SPCB.
(x)	No effluent shall be discharged outside the premises and 'Zero' effluent discharge shall be followed.	Zero' effluent discharge plant with required standard is under execution in 500TPD Methanol project plant.
(xi)	Process effluent/ any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Storm water drain has been designed accordingly.
(xii)	Surface and ground water monitoring with regular interval will be done in the vicinity of the project by taking water samples from different locations to ensure that no objectionable waste water is flowing out of the operating plants which may have impact on any wildlife under the category of schedule -I fauna.	Surface and ground water monitoring with regular interval has been done by engaging M/S Greenzone Environment Laboratory (Copy of the report is enclosed as <b>Annexure-VII</b> for your ready reference)
(xiii)	Process organic residue and spent carbon shall be sent to cement industries. ETP sludge and MEE concentrates shall be disposed off to the TSDF, spent catalyst/resin shall be sent to authorized recycler/reprocessor.	Process spent catalyst and used lube oil are sent to authorized recycler/ reprocessor at a regular interval.
(xiv)	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes and prior permission from MPCB shall be obtained for disposal of solid/Hazardous waste in the TSDF. Measures shall be taken for fire facilities in case of emergency.	For the existing plant, Grant of Authorisation for collection, storage and disposal of hazardous waste under the Hazardous Wastes Rules was applied to State Pollution Control Board and it is under process.  The authorisation for the same for 500TPD Methanol Project plant will be applied in due course of time
(xv)	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.	The company is complying with the rules and guidelines under Manufacture Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. (Copies of guidelines followed for our products are enclosed as <b>Annexure-VIII</b> for your ready reference).

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(xvi)	All the recommendations made in the risk assessment report shall be satisfactorily implemented.	<p>The recommendations are made basically on storage details of products and other materials, w.r.t. possible risks at plant area, i.e. pipeline rupture or leakage, materials storage/dyke fire (instantaneous release). The implementation of recommendation for the same are as below which are under construction.</p> <ol style="list-style-type: none"> <li>1. Storage Tanks: arrangements like independent high level alarm and trip of liquid inlet line, low level alarm and provision of auto deluge water sprinkler system for its bulk storage tank.</li> <li>2. The turbine building, switch-yard, transformer yard, administrative building, pantry, first-aid centre, fire station, etc. are located safely in light of worst accident scenarios.</li> <li>3. In case of any tank on fire or fire in the vicinity, the cooling of adjoining tank to be resorted promptly.</li> <li>4. The night vision and wind sock is mounted on top of administrative building and dyke area is to have adequate illumination so that people can move in upwind directions in event massive spillage.</li> <li>5. Population growth around the plant and the colony are watched by appropriate authorities so that unauthorised growth of shanty colonies and hutments around the plant is avoided.</li> </ol> <p>No machinery of vital importance like firefighting pump house, hydrant and fuel oil pump house will be placed within the radiation contours of 32kw/m<sup>2</sup> heat intensity</p>
(xvii)	The unit shall make arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Fire fighting system for the existing plant has been arranged as per the norms. And for 500TPD Methanol project the arrangement for protection of possible fire hazards and fire fighting system is under execution.



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(xviii)	Occupational Health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational Health surveillance of the workers are done on regular basis and recorded. For the current year 2019, annual health check-up report is enclosed as <b>Annexure IX</b> for your ready reference)
(xix)	Green Belt shall be developed in 9.538 acres of land. Selection of plant species shall be as per the CPCB guideline.	We have been maintaining and further developing green belt in the existing and new project site.
(xx)	All the commitments made to the public during the Public Hearing/ Public Consultation meeting held on 6th September, 2012 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Shillong.	All the commitment made to the public during the public hearing on Sept 6, 2012, has already been complied.
(xxi)	At least 5% of the total cost of the project shall be earmarked towards the Enterprises Social Commitment and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional office at Shillong. Implementation of such program shall be ensured accordingly in a time bound manner.	The list of CSR activities undertaken by APL is enclosed in <b>Annexure X</b> as ready reference.
(xxii)	Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed that there is no impact on the surrounding environment.	All the contractors working at project site has been provided with all the necessary infrastructure & welfare facilities such as housing or space for hutments, drinking water, health care, etc.
<b>B. GENERAL CONDITIONS</b>		
(i)	The project authorities must strictly adhere to the stipulations made by the Assam Pollution Control Board (APCB), State Government and any other statutory authority.	The stipulations made by the Assam Pollution Control Board (APCB), State Government and any other statutory authority are being complied.



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(ii)	No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & 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.	Noted.
(iii)	The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approval from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. Must be obtained, wherever applicable.	The project is under construction and same will be complied in due course of time.
(iv)	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 EPA Rules, 1989 viz. 75 dba (daytime) and 70 dba (night time).	In the existing plant, we are adopting all control measures and noise level is within the limit. In the 500TPD Methanol Project, all control measures have been taken into design consideration such as acoustic hoods, silencers, enclosures, etc. on all source of noise generation (The noise level monitoring report by M/S Greenzone Environment Laboratory is enclosed in <b>Annexure XI</b> for your ready reference)
(v)	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 suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	Already complied and intimated to your good office.
(vi)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB and the APCB. The Regional Office of this Ministry/CPCB/APCB shall monitor the stipulated conditions.	Noted.

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(vii)	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	The environmental statement for each financial year ending 31st March, 2019 in Form V is enclosed as <b>Annexure XII</b> for your ready reference.
(viii)	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 APCB and may also be seen at Website of the Ministry of Environment and Forests at <a href="http://envfor.nic.in">http://envfor.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 locality concerned and a copy of the same shall be forwarded to the Regional Office.	Already complied and intimated to your good office.
(ix)	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 commencing the land development work.	Already complied and intimated to your good office.

Thanking You,

For and on behalf of  
Assam Petro-Chemicals Ltd.

  
(S.K. Bora)  
Dy. General Manager (Project)

**S. K. Bora**  
General Manager (Project)  
Assam Petro-Chemicals Ltd.  
Namrup

## Copy to:

1. Dr. Sudheer Chintalapati, Scientist'D', Ministry of Environment, Forest and Climate Change, Govt. of India (I.A. Division), Indira Paryavaran Bhavan, Jor Bagh Road, Aliganj, New Delhi – 110003, for kind information please.



Regd. Office: 4th Floor, Orion Place  
Mahapurush Srimanta Sankardev Path, Bagbari, Guwahati, Assam-781005  
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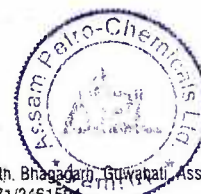
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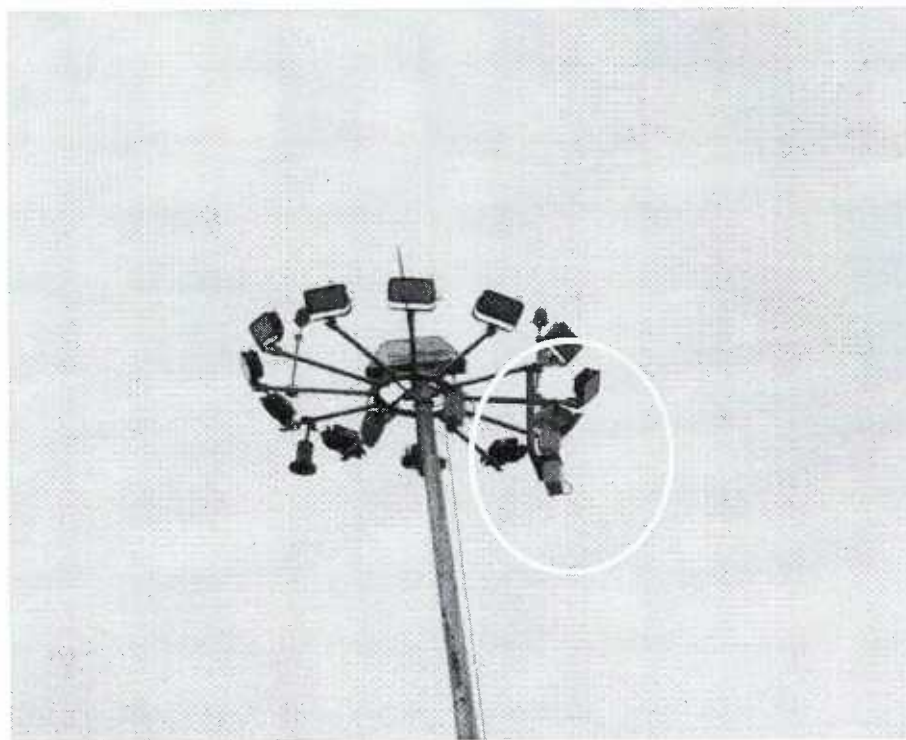
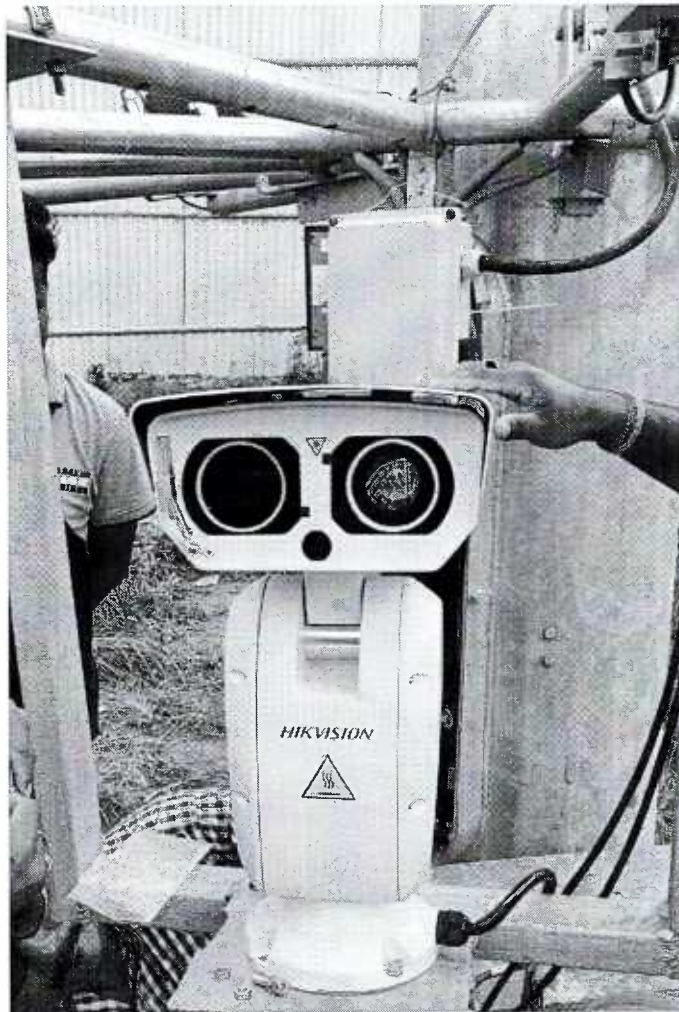
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2. Regional Director, Central Pollution Control Board Zonal Office, Shillong Tum-Sir, Lower Motinagar, Near Fire Brigade H.Q., Shillong – 793014, for kind information please.
3. Principal Secretary, Department of Environment & Forest, Govt. of Assam, Guwahati, Assam - 781006, for kind information please.
4. Member Secretary, Assam Pollution Control Board, Bamunimaidam, Guwahati – 21, Assam, for kind information please.
5. Executive Engineer, Regional Office, State Pollution Control Board Assam, Behind ASTC, Chowkidinghee, Dibrugarh – 786001, for kind information please.
6. General Manager (Project), Assam Petro-chemicals Limited, Namrup, for kind information please.



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*Annexure I*



High-resolution CCTV with 1 km surveillance radius has been installed for 24 x 7

*Signature*











11/15/2019

Industry

## ASSAM PETROCHEMICALS LIMITED

tail is as per CPCB prescribed procedure published at cpcb.nic.in ( <http://cpcb.nic.in/> )



Category : PETROCHEMICAL

Industry Code : 11AS001

Lat : 27.1973879156  
Long : 85.395261332626

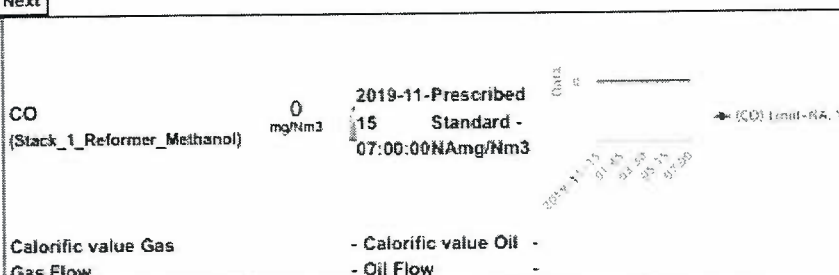
Last Updated : 15-Nov-2019 07:00:00

Welcome: assam Logout (<login.php?action=logout>)

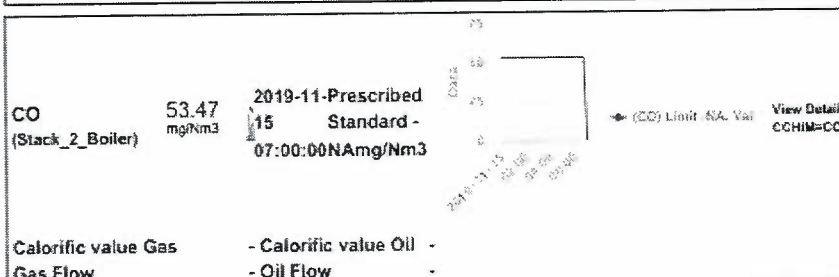


Exceedance  
0  
(Past 24 hours)

Next



View Details ([industry\\_report.php?CCHM=CO&GEST\\_SOURCE=Stack\\_1\\_Reformer\\_Methanol](industry_report.php?CCHM=CO&GEST_SOURCE=Stack_1_Reformer_Methanol))



View Details ([industry\\_report.php?CCHM=CO&GEST\\_SOURCE=Stack\\_2\\_Boiler](industry_report.php?CCHM=CO&GEST_SOURCE=Stack_2_Boiler))

SMS Alerts Communicated

Past 24	Past 2	Past 1	Past 15	Past 1
---------	--------	--------	---------	--------

[www.envsaindia.com/eqdm/industry.php](http://www.envsaindia.com/eqdm/industry.php)

1/2

Contd...  
Page 14 of 42



Signature

## ASSAM PETROCHEMICALS LIMITED

data available at: <http://www.petrolchem.com/assam>  
[www.petrolchem.com/assam](http://www.petrolchem.com/assam)

Category : PETROCHEMICAL

Industry Code : 15A5991

Lic: 27.1873872166

Live

Licg: 32.365361332656

Last Updated : 15-Nov-2019 07:00:00

Welcome to Assam Petrochemicals Limited (http://www.petrolchem.com/assam)



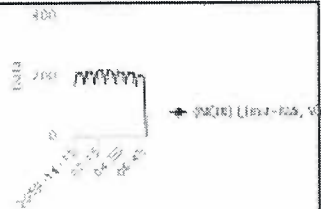
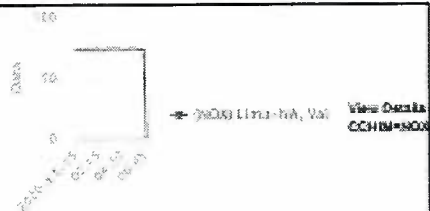
Exceedance

0

(Past 24 hours)

Prev

Next

NOX  
(Stack\_1\_Reformer\_Methanol)160.42  
mg/m<sup>3</sup>2019-11-Prescribed  
15 Standard •  
07:00:00NAmg/Nm<sup>3</sup>View Details (Industry\_report.php?  
CCHM=NOX&GEST\_SOURCE=Stack\_1\_Reformer\_1)Calorific value Gas  
Gas Flow• Calorific value Oil •  
• Oil Flow •NOX  
(Stack\_2\_Boiler)72.86  
mg/m<sup>3</sup>2019-11-Prescribed  
15 Standard •  
07:00:00NAmg/Nm<sup>3</sup>View Details (Industry\_report.php?  
CCHM=NOX&GEST\_SOURCE=Stack\_2\_Boiler)Calorific value Gas  
Gas Flow• Calorific value Oil •  
• Oil Flow •

SMS Alerts Communicated

Past  
24Past  
3Past  
1Past  
15Past  
1

*[Signature]*



**M/s. GREENZONE**  
Recognised By:  
Pollution Control Board, Assam

Janata Road, Digboi, Assam  
Ph. 9401904225  
e-mail : greenzonedigboi@gmail.com

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## AMBIENT AIR QUALITY TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.  
(A Govt. of Assam Undertaking)  
P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

LOCATION	NEAR CANTEEN AREA
Date of measurement	04/12/2019
Report Reference No.	GZ/AAQ2/APL19/DBR/R-308
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018

### Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			CANTEEN		
1	Particulate Matter (PM <sub>10</sub> )	( $\mu\text{g}/\text{m}^3$ )	62	100	IS 5182(23)
2	Particulate Matter (PM <sub>2.5</sub> )	( $\mu\text{g}/\text{m}^3$ )	43	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	14	80	IS 5182(2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	18	80	IS 5182(VI)
5	Carbon Monoxide (CO)	( $\text{mg}/\text{m}^3$ )	<0.1	02	IS 5182 (22)
11	Hydrocarbon(HC)	ppm	<1	NIL	CPCB GUIDELINES
12	VOC	( $\mu\text{g}/\text{m}^3$ )	<1	NIL	CPCB GUIDELINES

Note: The parameters tested on the specific period are in accordance with the NAAQ Standards, CPCB  
NOTIFICATION DATED 18<sup>th</sup> NOVEMBER 2009

Sampled & analyzed by:

GREENZONE, Digboi

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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**M/s. GREENZONE**  
Recognised By  
Pollution Control Board, Assam

Janata Road, Digboi, Assam  
Ph. 9401904228  
e-mail : greenzonedigboi@gmail.com



## AMBIENT AIR QUALITY TEST RESULTS

**ASSAM PETRO-CHEMICALS LTD.**  
( A Govt. of Assam Undertaking )  
P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

LOCATION	NEAR GUEST HOUSE GATE
Date of measurement	04/12/2019
Report Reference No.	GZ/AAQ3/APL19/DBR/R-309
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018

### Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			GUEST HOUSE		
1	Particulate Matter (PM <sub>10</sub> )	( $\mu\text{g}/\text{m}^3$ )	50	100	IS 5182(23)
2	Particulate Matter (PM <sub>2.5</sub> )	( $\mu\text{g}/\text{m}^3$ )	37	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	16	80	IS 5182(2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	19	80	IS 5182(VI)
5	Carbon Monoxide (CO)	( $\text{mg}/\text{m}^3$ )	<0.1	02	IS 5182 (22)

Note: The parameters tested on the specific period are in accordance with the NAAQ Standards, CPCB  
NOTIFICATION DATED 18<sup>th</sup> NOVEMBER 2009

Sampled & analyzed by:

GREENZONE, Digboi

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

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## AMBIENT AIR QUALITY TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.  
(A Govt. of Assam Undertaking)  
P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

LOCATION	NEAR LABORATORY & INDUSTRY AREA
Date of measurement	04/12/2019
Report Reference No.	GZ/AAQ1/APL19/DBR/R-307
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018

### Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			LABORATORY		
1	Particulate Matter (PM <sub>10</sub> )	(µg /m <sup>3</sup> )	56	100	IS 5182(23)
2	Particulate Matter (PM <sub>2.5</sub> )	(µg /m <sup>3</sup> )	43	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO <sub>2</sub> )	(µg /m <sup>3</sup> )	15.5	80	IS 5182(2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	(µg /m <sup>3</sup> )	21	80	IS 5182(VI)
5	Carbon Monoxide (CO)	(mg /m <sup>3</sup> )	<0.1	2	IS 5182 (22)
11	Hydrocarbon(HC)	ppm	<1	NIL	CPCB GUIDELINES
12	VOC	(µg /m <sup>3</sup> )	<1	NIL	CPCB GUIDELINES

**Note:** The parameters tested on the specific period are in accordance with the NAAQ Standards, CPCB NOTIFICATION DATED 18<sup>th</sup> NOVEMBER 2009

Sampled & analyzed by:



GREENZONE, Digboi

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

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*Contd...*





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**M/s. GREENZONE**

Recognised By

Pollution Control Board, Assam

Janata Road, Digboi, Assam

Ph. 9401904228

e-mail : greenzonedigboi@gmail.com

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ISO 9001:2015



## STACK EMISSION TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.  
(A Govt. of Assam Undertaking)  
P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

01	Stack Emission Ref. No	GZ/APCL/SE/19/R-315
02	Date of Sampling	04/12/2019
03	Material Of Construction	M.S.
04	Stack Attached To	Reformer
05	Stack Height (Mtr.)	35
06	Flue Gas Temperature ( $^{\circ}$ C)	162
07	Type of Fuel Used	Natural Gas
08	Analysis Result of Flue Gas	
	1. Particulate Matter ( $\text{mg}/\text{Nm}^3$ )	20.5
	2. $\text{SO}_2$ (ppm)	15.5
	3. $\text{NO}_x$ (ppm)	68
	4. CO (ppm)	17.5
	5. $\text{CO}_2$ %	4.2
	6. $\text{O}_2$ %	11.4

Sampled & analysed by:

GREENZONE

Digboi

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

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M/s. GREENZONE

Recognised By

Pollution Control Board, Assam

Janata Road, Digboi, Assam

Ph. 9401904228

e-mail : greenzonedigboi@gmail.com

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## STACK EMISSION TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.

( A Govt. of Assam Undertaking)

P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

01	Stack Emission Ref. No.	GZ/APCL/SE/19/R-314
02	Date of Sampling	04/12/2019
03	Material Of Construction	M.S.
04	Stack Attached To	Boiler ID fan
05	Stack Height (Mtr.)	30
06	Flue Gas Temperature (°C)	152
07	Type of Fuel Used	Natural Gas
08	Analysis Result of Flue Gas	
	1. Particulate Matter (mg/Nm <sup>3</sup> )	19.8
	2. SO <sub>2</sub> (ppm)	14
	3. NO <sub>x</sub> (ppm)	63
	4. CO (ppm)	16
	5. CO <sub>2</sub> %	5.2
	6. O <sub>2</sub> %	10.8

Sampled & analysed by:

GREENZONE.

Digboi

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## AMBIENT AIR QUALITY TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.  
( A Govt. of Assam Undertaking)  
P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

LOCATION	NEAR GUEST HOUSE GATE
Date of measurement	16/07/2019
Report Reference No.	GZ/AAQ3/APL19/DBR/03
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018

### Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			GUEST HOUSE		
1	Particulate Matter (PM <sub>10</sub> )	( $\mu\text{g}/\text{m}^3$ )	56	100	IS 5182(23)
2	Particulate Matter (PM <sub>2.5</sub> )	( $\mu\text{g}/\text{m}^3$ )	38	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	13	80	IS 5182(2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	15	80	IS 5182(VI)
5	Carbon Monoxide (CO)	( $\text{mg}/\text{m}^3$ )	<0.1	02	IS 5182 [22]

Note: The parameters tested on the specific period are in accordance with the NAAQ Standards, CPCB  
NOTIFICATION DATED 18<sup>th</sup> NOVEMBER 2009

Sampled & analyzed by:



GREENZONE, Digboi

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## AMBIENT AIR QUALITY TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.  
( A Govt. of Assam Undertaking)  
P.O. Parhatpur-786623, DIST-Dibrugarh, Assam

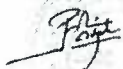
LOCATION	NEAR CANTEEN AREA
Date of measurement	15/07/2019
Report Reference No.	GZ/AAQ2/APL19/DBR/03
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018

### Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			CANTEEN		
1	Particulate Matter (PM <sub>10</sub> )	( $\mu\text{g}/\text{m}^3$ )	59	100	IS 5182(23)
2	Particulate Matter (PM <sub>2.5</sub> )	( $\mu\text{g}/\text{m}^3$ )	36	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	10	80	IS 5182(2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	14	80	IS 5182(VI)
5	Carbon Monoxide (CO)	( $\text{mg}/\text{m}^3$ )	<0.1	02	IS 5182 (22)
11	Hydrocarbon(HC)	ppm	<1	NIL	CPCB GUIDELINES
12	VOC	( $\mu\text{g}/\text{m}^3$ )	<1	NIL	CPCB GUIDELINES

Note: The parameters tested on the specific period are in accordance with the NAAQ Standards, CPCB NOTIFICATION DATED 18<sup>th</sup> NOVEMBER 2009

Sampled & analyzed by:



GREENZONE, Digboi

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**Contd...**  
Page 22 of 42





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**M/s. GREENZONE**

Recognised By:

Pollution Control Board, Assam

Janata Road, Digboi, Assam

Ph. 9401904228

e-mail : greenzonedigboi@gmail.com

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## AMBIENT AIR QUALITY TEST RESULTS

ASSAM PETRO-CHEMICALS LTD.

( A Govt. of Assam Undertaking)

P.O. Parbotpur-786623, DIST-Dibrugarh, Assam

LOCATION	NEAR GUEST HOUSE GATE
Date of measurement	16/07/2019
Report Reference No.	GZ/AAQ3/APL19/DBR/03
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018

### Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			GUEST HOUSE		
1	Particulate Matter (PM <sub>10</sub> )	( $\mu\text{g}/\text{m}^3$ )	56	100	IS 5182(23)
2	Particulate Matter (PM <sub>2.5</sub> )	( $\mu\text{g}/\text{m}^3$ )	38	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	13	80	IS 5182(2)
4	Nitrogen Dioxide (NO <sub>2</sub> )	( $\mu\text{g}/\text{m}^3$ )	15	80	IS 5182(VI)
5	Carbon Monoxide (CO)	(mg /m <sup>3</sup> )	<0.1	02	IS 5182 (22)

Note: The parameters tested on the specific period are in accordance with the NAAQ Standards, CPCB

NOTIFICATION DATED 18<sup>th</sup> NOVEMBER 2009

Sampled & analyzed by:

*[Signature]*

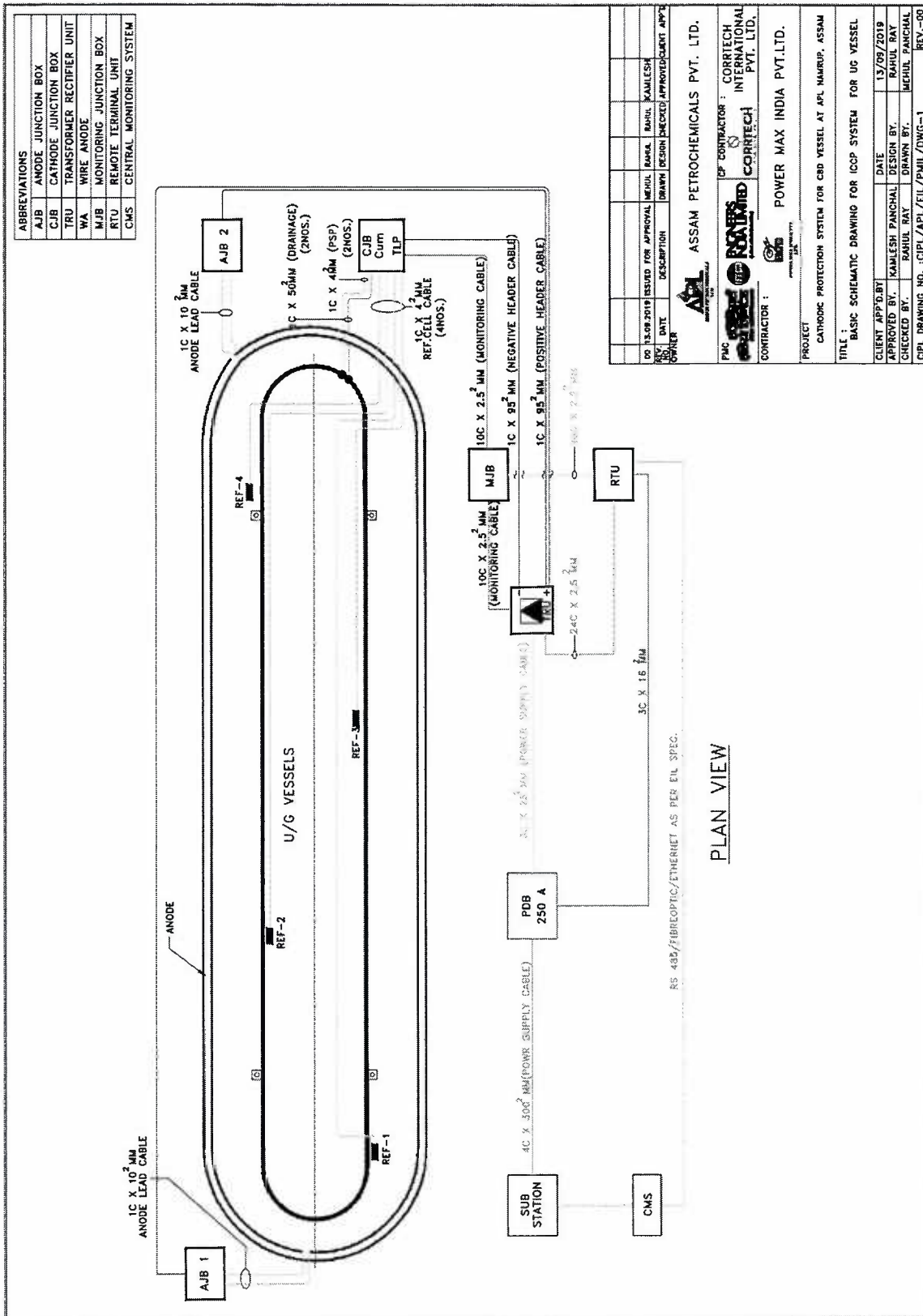
GREENZONE, Digboi

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.

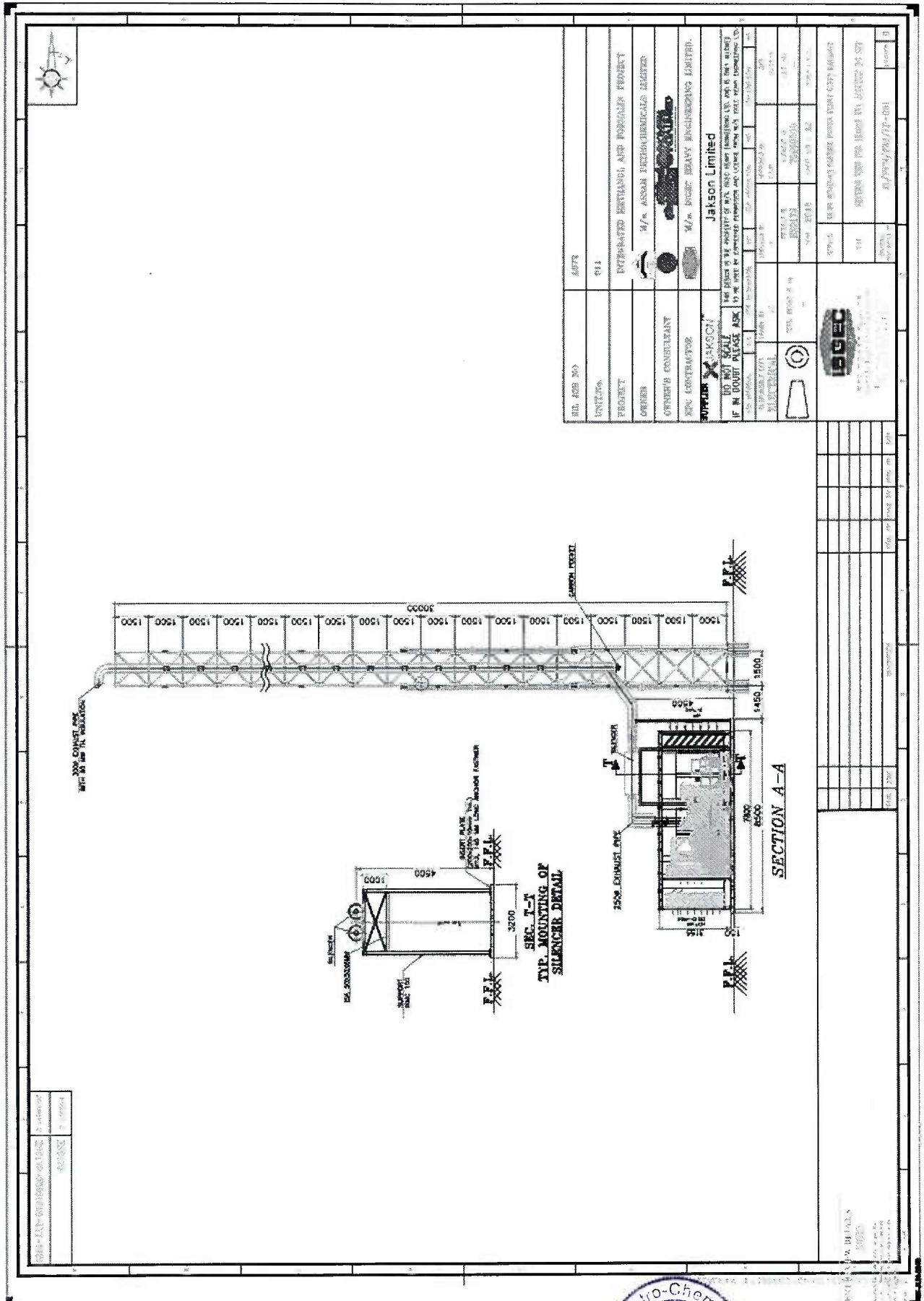
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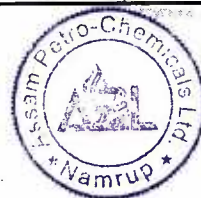


Mechanical Drawing of Cathodic protection





Structural Drawing of DG acoustic enclosure



30/12/2019

Average Report - Real-Time Data Monitoring System - State Pollution Control Board, Assam



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LIVE MAP    LIVE CAMERA    DATA    VALIDATION    REPORTS    OFFLINE STATIONS REASON

### Station Working Status Report

Search By Company **ASSAM PETRO-CHEMICALS LIMITED ▼**

Station Name **ETP\_1 ▼**

Search Type ☐ Quick Search ☒ Advance Search

Result Period From **01-09-2019** To **26-12-2019**

[Generate Report](#)

#### Station Name : ETP\_1

Parameter Name	Data	Active Status %
BOD (Mg/l 50)	91.36	
COD (Mg/l 250)	91.36	
TSS (Mg/l 100)	91.13	
pH (pH 6.5-8.5)	69.44	
FLOW (M3/hr )	92.93	

*[Handwritten Signature]*

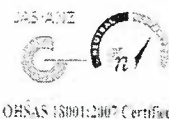


## Annexure VII



**M/s. GREENZONE**  
Recognised By  
Pollution Control Board, Assam

Janata Road, Digboi, Assam  
Ph. 9401904228  
e-mail : greenzonedigboi@gmail.com



Ref no. GZ/GW/APL19/DBR/02/R-311

Date of issue: 14/12/2019

### GROUND WATER & SURFACE WATER ANALYSIS RESULTS

**ASSAM PETRO-CHEMICALS LTD.**

( A Govt. of Assam Undertaking)

P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

Sample Collection Date: 04/12/2019

Sl. No.	Parameters	Results	
		Ground Water (Tube Well)	Surface Water (Disung Nala)
01	Temp (°C)	20	20
02	pH	6.65	6.95
03	Turbidity, NTU, Max	1.5	1.8
04	Conductivity (µs/cm)	136	131
05	Total Hardness (as CaCO <sub>3</sub> ), mg/l,	118	161
06	Alkalinity (as CaCO <sub>3</sub> ), mg/l,	29	32
07	Magnesium (as Mg CO <sub>3</sub> ), mg/l,	36	37
08	Total Alkalinity (mg/l)	122	106
09	Iron (mg/l)	0.06	0.09
10	Nitrates (mg/l)	0.01	0.05
11	Ammoniacal Nitrogen (mg/l)	0.03	0.02
12	Phosphates (mg/l)	0.01	0.08
13	Fluoride (mg/l)	BDL	0.03
14	Sodium as Na (mg/l)	0.6	0.9
15	Potassium (mg/l)	1.15	1.13
16	D. O. (mg/l)	3.8	5.5
17	TDS (mg/l)	189	132
18	Chlorides (mg/l)	26	25
19	BOD (mg/l)	2.1	2.3
20	COD (mg/l)	2.9	2.6
21	Oil & Grease (mg/l)	BDL	BDL

Note: BDL=Below Detection limit,

Analyzed and verified by:

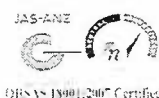
GREENZONE





**M/s. GREENZONE**  
Recognised By  
Pollution Control Board, Assam

Janata Road, Digboi Assam  
Ph. 9401904228  
e-mail : greenzonedigboi@gmail.com



## SOIL ANALYSIS TEST RESULTS

**ASSAM PETRO-CHEMICALS LTD.**  
( A Govt. of Assam Undertaking )  
P.O. Parbatpur-786623, DIST:Dibrugarh, Assam

Ref No. : GZ/ST/APL19/DBR/R-313  
Location : ASSAM PETRO-CHEMICALS LTD., Namrup  
Sample Collected By : Greenzone Representative.  
Sample Collected On : 04/12/2019

Sl. No.	Parameters	Results
01	Colour	Dark Brown
02	Compaction	Medium
03	pH (10 % Solution)	6.85
04	Electrical Conductivity, mmhos/cm	1.21
05	Natural Moisture Content, %	21.3
06	Organic Carbon, %	136
07	Nitrogen, %	0.005
08	Phosphorous, %	0.015
09	Potassium, %	0.006
10	Sodium (as Na), ppm	108
11	Calcium (as Ca), ppm	81
12	Magnesium (as Mg), ppm	44
13	Chlorides (as Cl), ppm	126
14	Sulphates (as $SO_4$ ), ppm	74
15	Silt, %	69.5
16	Clay, %	7.3
17	Textural Class	Silty Loam
18	Bulk Density, g/cc	1.32
19	Sodium Absorbing Ratio	2.36
20	Iron (as Fe), mg/kg	0.80

Note: BDL- Below Detection Limit

Report Verified by:

Report issued on: 14/12/2019

GREENZONE

Digboi

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**M/s. GREENZONE**

Recognised By:  
Pollution Control Board, Assam

Janata Road, Dibrub, Assam  
Ph. 9401904228  
e-mail: greenzonedibrub@gmail.com

IAS-ANZ



Ref no. GZ/W/APL18/DBR/02/2019

Date of issue: 24/07/2019

**GROUND WATER & SURFACE WATER ANALYSIS RESULTS**

**ASSAM PETRO-CHEMICALS LTD.**

**( A Govt. of Assam Undertaking )**

P.O. Parhatpur-786623, DIST- Dibrugarh, Assam

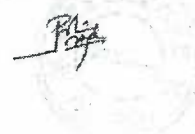
Sample Collection Date: 16/07/2019

Sl. No.	Parameters	Results	
		Ground Water (Tube Well)	Surface Water (Dising Nala)
01	Temp (oC)	22	25
02	pH	6.15	6.89
03	Turbidity, NTU, Mpo	1.3	2.0
04	Conductivity (µs/cm)	144	123
05	Total Hardness (as CaCO <sub>3</sub> ), mg/l	121	104
06	Alkalinity (as CaCO <sub>3</sub> ), mg/l	30	32
07	Magnesium (as Mg CO <sub>3</sub> ), mg/l	39	34
08	Total Alkalinity (mg/l)	128	102
09	Iron (mg/l)	0.05	0.07
10	Nitrates (mg/l)	0.02	0.06
11	Ammoniacal Nitrogen (mg/l)	0.03	0.03
12	Phosphates (mg/l)	0.02	0.08
13	Fluoride (mg/l)	BDL	0.02
14	Sodium as Na (mg/l)	0.6	0.9
15	Potassium (mg/l)	1.12	1.10
16	D. O (mg/l)	3.1	6.2
17	TDS (mg/l)	199	121
18	Chlorides (mg/l)	24	19
19	BOD (mg/l)	1.3	1.8
20	COD (mg/l)	1.2	2.2
21	Oil & Grease (mg/l)	BDL	BDL

Note: BDL=Below Detection limit,

Analyzed and verified by:

GREENZONE



Contd...

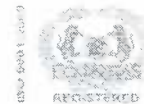




**M/s. GREENZONE**

Recognised By  
Pollution Control Board, Assam

Janata Road, Digboi, Assam  
Ph. 9401904228  
email: greenzonedigboi@gmail.com



### SOIL ANALYSIS TEST RESULTS

**ASSAM PETRO-CHEMICALS LTD.**

**( A Govt. of Assam Undertaking )**

P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

Ref No. : GZ/ST/APL19/DBR/03  
Location : ASSAM PETRO-CHEMICALS LTD., Namrup  
Sample Collected By : Greenzone Representative.  
Sample Collected On : 15/07/2019

Sl. No.	Parameters	Results
01	Colour	Dark Brown
02	Compaction	Medium
03	pH (10 % Solution)	6.77
04	Electrical Conductivity, mmhos/cm	1.18
05	Natural Moisture Content, %	22.8
06	Organic Carbon, %	129
07	Nitrogen, %	0.006
08	Phosphorous, %	0.018
09	Potassium, %	0.005
10	Sodium (as Na), ppm	105
11	Calcium (as Ca), ppm	78
12	Magnesium (as Mg), ppm	46
13	Chlorides (as Cl), ppm	131
14	Sulphates (as So <sub>4</sub> ), ppm	72
15	Silt, %	78.2
16	Clay, %	7.1
17	Textural Class	Silty Loam
18	Bulk Density, g/cc	1.25
19	Sodium Absorbing Ratio	2.35
20	Iron (as Fe), mg/kg	0.87

Note: BDL- Below Detection Limit

Report Verified by:

Report issued on: 24/07/2019



GREENZONE

Digboi



## Annexure VIII



### TRANSPORT EMERGENCY CARD (ROAD)

#### METHANOL

- ✱ CARGO : METHANOL (LIQUID)
- ✱ SMELL : ALCOHOLIC
- ✱ HAZARDS : Highly inflammable.  
Highly poisonous, Drinking, inhalation or injection can cause blindness and death.
- ✱ PROTECTIVE : Use Rubber Gloves and Safety goggles while handling.  
DEVICE : Menthol.  
In case of spillage wash eyes with clean water.
- ✱ EMERGENCY : Move the vehicle to an open area.  
ACTION : Stop the Engine.  
Cordon off the area. No smoking and naked lights within the cordon area.  
Inform Police, Fire brigade immediately.
- ✱ SPILLAGE : Avoid leaky valves.  
Wash with sufficient water. OR  
Cover the spill with sand/earth.
- ✱ IN THE : If the fire is minor, use DCP/CO<sub>2</sub> extinguisher provided in  
EVENT OF the tanker.  
FIRE : In major fire, use water/alcohol resistant foam spray.

<b>Assam Petrochemicals Ltd.</b> ( A Govt. of Assam Undertaking ) P.O. : PARBATPUR-786 623 NAMRUP Dist. : Dibrugarh, Assam	<b>Emergency Telephone Nos.</b> APL : Namrup : 0374-500331 0374-500246 0374-500212 APL : Guwahati : 0361-544147 0361-543484 APL : Kolkata : 033-2348292
--	---



### परिवहन आपातकालीन कार्ड ( सड़क )

- कार्गो :-- मिथानॉल ( तरल )
- संकट के स्वरूप :-- अत्यधिक ज्वलनशील ।  
-- अग्नि के लिए अत्यधिक हानिकारक ।  
-- स्वचा पर लगने से आगमाईदीश हो सकता है ।
- आपातकालीन कार्यवाही :-- संभव होने से वाहन को सुरक्षित क्षेत्र में ले जाने का प्रयत्न करें । वाहन को असुरक्षित न छोड़ें ।  
-- इंजिन बंद कर दें ।  
-- क्षेत्र को चारों तरफ से घेर दें । घिरे हुए क्षेत्र में धुम्रपान तथा सुली आदि का प्रयोग न करें ।  
करीब 50 मीटर दूर 'खतरा' का बोर्ड लगाकर यातायात रुका जानना को रोक दें ।  
-- विपरीत वायु की ओर ही रहे तथा लोगों को विपरीत वायु की दिशा में हा मागने को कहें ।  
-- सहायक सड़कियों से पुलिस, फायर ब्रिगेड सड़क को सूचना भेजें ।
- वहल :-- हाथ से देखें कि वाहन और टाकन मशी-मॉलिन बंद हैं और यदि संभव हो तो रिसाव को रोकें ।  
-- यदि पानी उपलब्ध हो तो मशी प्रकार धो दें ।  
-- वहल को रेत / मिट्टी से ढक दें ।
- आग लगने पर :-- साधारण आग के होने पर ट्रक में दिए गए डी-सी-बी-0 / सी-ओ-ए-ए-0 आग बुझाने वाले यंत्र का प्रयोग करें ।  
-- बड़े आग के होने पर पानी - आल्कोहल रेडीसंटेंट फोम स्प्रे का प्रयोग करें ।
- प्रारंभिक चिकित्सा के लिए :-- चोटों का सरादन के स्थान से हटा दें ।  
-- प्रभावित स्थान को ढेर चारे पानी से धोएं ।  
-- अगर अग्नि प्रभावित हुई हो तो आँखों को स्वच्छ पानी से धोएं ।  
-- आँखों को सुई का प्रकाश से बचाएं ।  
-- चिकित्सा सहायता की व्यवस्था तुरंत करें ।

<b>असम पेट्रोकेमिकल्स लि.</b> ( असम सरकार का उपक्रम ) डाक : पारबतपुर - 786 623 नामरूप जिला : डिब्रुगढ़, असम	आपातकालीन टेलीफोन नं० नामरूप -- 0374-500331 0374-500246 0374-500212 गुवाहाटी -- 0361-544147 0361-543484 कलकत्ता -- 033-2348292
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*Handwritten signature/initials*



# TRANSPORT EMERGENCY CARD (ROAD)

## FORMALIN

- \* CARGO : FORMALIN (LIQUID)
- \* SMELL : PUNGENT.
- \* HAZARDS : Moderate Fire Hazards.  
Highly poisonous, Drinking, inhalation or injection can cause blindness and death.  
Irritating to all body tissues if contact with skin.
- \* PROTECTIVE DEVICE : Use Rubber Gloves and Safety goggles while handling.  
Do not inhale.  
Do not touch.
- \* EMERGENCY ACTION : Move the vehicle to an open area.  
If inhalation : Remove to fresh air. Get Medical help.  
In case of Eye Contact : Wash with fresh water.  
Ingestion : Give water or milk to drink.
- \* SPILLAGE : Avoid leaky valves.  
Cordon off the area. No smoking and naked lights within the cordon area.  
Wash with sufficient water.  
Inform Police, Fire brigade immediately.
- \* IN THE EVENT OF FIRE : In case of fire, use DCP/CO<sub>2</sub> extinguisher provided in the tanker.  
Or use water / Alcohol resistant foam spray.

**Assam Petrochemicals Ltd.**  
( A Govt. of Assam Undertaking )  
P.O. : PARBATPUR-786 623  
NAMRUP  
Dist. : Dibrugarh, Assam

**Emergency Telephone Nos.**  
APL : Namrup : 0374-500331  
0374-500246  
0374-500212  
APL : Guwahati : 0361-544147  
0361-543484  
APL : Kolkata : 033-2348292



## परिचयन आपत्कालीन कार्ड ( तस्क )

- कार्गो :- फॉर्मलिन ( तरल )
- संकेत के स्वरूप :- अत्यधिक ज्वलनशील ।  
- ऑक्सी के लिए अत्यधिक हानिकारक ।  
- त्वचा पर लगने से खरामाईदीश हो सकता है ।
- आपातकालीन कार्यवाही :- सभ्य होने से वाहन को सुले क्षेत्र में ले जाने का प्रयत्न करें । वाहन को असुरक्षित न छोड़ें ।  
- इन्जिन बंद कर दें ।  
- क्षेत्र को चारों तरफ से घेर दें । घिरे हुए क्षेत्र में धुंधपान तथा खुली आग का प्रयोग न करें ।  
- करीब 50 मीटर दूर 'खतरा' का बोर्ड लगाकर यातायात तथा जनता को रोक दें ।  
- विपरीत वायु की ओर ही रहे तथा लोगों को विपरीत वायु की दिशा में ही भागने को कहें ।  
- सहायक 'राष्ट्रीय' से पुलिस, फायर ब्रिगेड सर्वेच को सूचना भेजें ।
- बहाव :- हाथ से चेक कि वाल्व और टन्कन भली-भांति बंद हैं और यदि संभव हो तो रिसाव को रोकें ।  
- यदि पानी उपलब्ध हो तो भली प्रकार धोएं ।  
- बहाव को रेत / मिट्टी से ढक दें ।
- आग लगने पर :- साधारण आग के होने पर टूक में दिए गए डीसी000 / सी000000 आग दूझने वाले यंत्र का प्रयोग करें ।  
- बड़ी आग के होने पर पानी / आल्कोहल रेडीसलेंट फोम स्प्रे का प्रयोग करें ।
- प्राथमिक चिकित्सा के लिए :- व्यक्ति को रक्तचयन के स्थान से हटा दें ।  
- प्रभावित स्थान को ठंडे पानी से धोएं ।  
- अगर ऑक्सी प्रभावित हुई हो तो ऑक्सी को स्वच्छ पानी से धोएं ।  
- ऑक्सी को सूर्य का प्रकाश से बचाएं ।  
- चिकित्सा सहायता की व्यवस्था शुरू करें ।

**असम पेट्रोकेमिकल्स लि.**  
( असम सरकार का उपक्रम )  
डाक : पर्वतपुर - 786 623  
नामरूप  
जिला : डिब्रुगढ़, असम

आपातकालीन टेलीफोन नं०  
नामरूप - 0374-500331  
0374-500246  
0374-500212  
गुवाहाटी - 0361-544147  
0361-543484  
कोलकाता - 033-2348292





Annexure IX

ASSAM PETRO-CHEMICALS LIMITED  
NAMRUP

CIRCULAR

Ref No.APL/AM/Safety

Date: 21.01.2019

Sub: Periodical Health Check up of employees.

This is for general information to all concerned that; Medical health check-up for the Employees, working inside the factory premises is scheduled to be held from 23<sup>rd</sup> Jan 2019.

The details of the programme:-

Venue :- APL Medical.

Starting date:-23<sup>rd</sup> January 2019.

Timing: First group: 8-30AM to 11AM

Second group-01-30PM to 04-30 PM

In connection with the above, request you to kindly do the needful to nominate 3 (three) numbers of employee for morning & evening session each day from the earlier list in order to health check up programme in our APL hospital.

Average Number of participants: 15 daily.

(J.Buragohain)  
Asstt.Mgr(Safety)

To

The Concerned Department:

Copy to :-

GGM(P&M) For kind information please.

GM (Mtl&HR.) -Do-

GM (Maint.) -Do-

(J.Buragohain)  
Asstt.Mgr(Safety)



## *Annexure X*

### **CORPORATE SOCIAL RESPONSIBILITY OF APL**

Realizing CSR (Corporate Social Responsibility) as an essential component of an Organization, Assam Petro- Chemicals Limited being a responsible public sector unit of North East India has committed to strive to discharge its social responsibilities in various forms.

#### **CSR ACTIVITIES OF ASSAM PETRO-CHEMICALS LIMITED from 2018 to till date.**

1. Assisted a blood donation camp organized by Purbanchal Resource Management Committee, an NGO at Co's hospital by providing medical amenities, beds etc. (Dated 13/06/2018)
2. Financial assistance amounting to Rs 50,000/- was sanctioned in favor of Abhishek B. Gogoi of Namrup, a Gold Medalist in National Cycling Championship to attend necessary training in the National Coaching Camp as well as participating in the Summer Special Olympic held at Abu Dhabi, March, 2019 ( As per Hon'ble Board of Directors decision dated 28/08/2018).
3. Financial assistance amounting to Rs 50,000 /- was sanctioned to Gramyya Unnayan Sangha, a socio-cultural organization of Namrup for construction of toilet/Bathroom at their office premises.
4. APL has been imparting quality education to the students of the locality by providing necessary infrastructures and financial support amounting to Rs 2.25 lacs on quarterly basis to Basundhara Jatiya Vidyalaya a private educational institute situated in the APL Township.
5. Assam Petro-Chemicals Limited has contributed a sum of Rs 25, 00,000/- (Rupees twenty-five lacs) only to the Chief Minister's Relief fund on 26.07.2019 to render immediate relief to the flood victim people of Assam.
6. Sponsored 27<sup>th</sup> National Children's Science Congress held at JNV, Rangazan, Doomdooma from 01.11.2019 to 04.11.2019 by arranging 600 Nos of mementos amounting to Rs 75,000/

Besides, The Company also has also been supplying drinking water, providing health check-up and medicines to the needy peoples of the neighbouring villages.



# Annexure XI



**M/s. GREENZONE**  
Recognized By  
Pollution Control Board, Assam

Janata Road, Digboi, Assam  
Ph. 9401904225  
e-mail : greenconedigboi@gmail.com



## NOISE LEVEL MEASUREMENT TEST RESULTS

**ASSAM PETRO-CHEMICALS LTD.**

( A Govt. of Assam Undertaking)

P.O. Parbatpur-786623, DIST-Dibrugarh, Assam

LOCATION	ASSAM PETRO-CHEMICALS LTD.
Date of Measurement	04/12/2019
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018
Report Reference No.	GZ/NM/APL19/DBR/R-312

### Measurement Results

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1.	Near Guest House Gate	70.2	68.3	69.5
2.	Near Canteen	68.2	66.4	67.3
3.	Near Laboratory & Industry Area	76.5	73.1	74.2

*Remark: Recorded noise levels are in compliance with the APCB limit (Leq 75 dBA)*

Report Verified by:

GREENZONE

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.

3. This test report shall not be reproduced except in full, without the written permission of GREENZONE, Digboi Janata Road, Digboi - 786171, Assam.

Contd...



## NOISE LEVEL MEASUREMENT TEST RESULTS

### ASSAM PETRO-CHEMICALS LTD.

( A Govt. of Assam Undertaking)

P.O. Parbatpur-786622, DIST-Dibrugarh, Assam

LOCATION	ASSAM PETRO-CHEMICALS LTD.
Date of Measurement	16/07/2019
Work order no.	APL/QC/18-19/14(b)/143-47 dated 06.09.2018
Report Reference No.	GZ/NM/APL19/DBR/03

#### Measurement Results

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1	Near Guest House Gate	68.5	66.2	67.2
2	Near Canteen	67.1	63.1	65.4
3	Near Laboratory & Industry Area	77.4	70.2	73.6

*Remark:* Recorded noise levels are in compliance with the APCE limit (Leq 75 dBA)

Report Verified by:

  
GREENZONE

**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.  
3. This test report shall not be reproduced except in full, without the written permission of GREENZONE, Digboi Janab Road, Digboi - 786171, Assam.





**FORM V**  
**(See Rule 14)**

**Environmental Statement for the financial year ending on 31<sup>st</sup> March 2019**

**PART A**

- (i) **Name and address of the owner/ occupier of the industry operation or process.**

Mr. Ratul Bordoloi,  
Managing Director  
Assam Petro-chemicals Limited, Namrup  
P.O. Parbatpur, Dist – Dibrugarh  
Pin – 786623, Assam

Tel : 03742500331 Fax: 03742500231  
Email: [admin\\_apl@assampetrochemicals.co.in](mailto:admin_apl@assampetrochemicals.co.in)

- (ii) **Industry category Primary-(STC Code) Secondary-(STC Code).**

Red Category, 1057 Petrochemical Manufacturing

- (iii) **Production capacity- Units.**

1. Methanol 3000 Tonnes/ Month
2. Formalin 3750 Tonnes/ Month

- (iv) **Year of establishment**

June 1976

- (v) **Date of the last environmental statement submitted.**

Last Environmental Statement was submitted.

**PART B**

**Water and Raw Material Consumption**

**1. Water consumption m<sup>3</sup>/ d**

**Process** : 50 m<sup>3</sup>/day  
**Cooling** : 882 m<sup>3</sup>/day  
**Domestic** : 1791 m<sup>3</sup>/day



Name of Products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
<b>For Existing Plant</b>		
(1) Methanol	8.15 m <sup>3</sup> /MT	8.34 m <sup>3</sup> /MT
(2) Formalin	6.15 m <sup>3</sup> /MT	0.68 m <sup>3</sup> /MT
<b>For Proposed Plant</b>		
(1) Methanol	Not Applicable	Not Applicable
(2) Acetic Acid		

## 2. Raw Material Consumption

*Name of Materials	Name of Products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
For Existing Plant			
(1) Natural Gas	Methanol	1122 NM <sup>3</sup>	1046 NM <sup>3</sup>
(2) Methanol	Formalin	0.483 MT	0.485 MT
For Proposed Plant			
(1) Natural Gas	Methanol	Not Applicable	Not Applicable

**\*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.**

## PART C

### Pollution discharged to environment/ unit of output.

(Parameter as specified in the consent issued)

Pollution	Quantity of pollutants discharged (mass/ day)	Concentration of pollutants in discharges (mass/ volume)	Percentage of variation from with reasons
<b>For Existing Plant</b>			
(1) Water	Enclosed in Annexure VI, VII		

*[Signature]*



(2) Air	Enclosed in Annexure III
<b>For Proposed Plant</b>	
(1) Water	Enclosed in Annexure VII
(2) Air	Enclosed in Annexure III

## PART D

### Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
For Existing Plant		
(1) Process	1.6 MT	Category 1.6, Spent Catalyst: 713 kg
		Category 5.1, Used Oil: 263 kg
(2) From Pollution Control Facilities	Not Applicable	
For Proposed Plant		
(1) Process	Not Applicable	
(2) From Pollution Control Facilities	Not Applicable	

## PART E

### Solid Wastes

	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
<b>For Existing Plant</b>		
(1) Process	Nil	Category 1.6, Spent Catalyst: 713 kg

*[Handwritten Signature]*



(1) From Pollution Control Facilities	Not Applicable
(2) Quantity recycled or reutilised within the unit	Not Applicable
<b>For Proposed Plant</b>	
(1) Process	Not Applicable
(2) From Pollution Control Facilities	Not Applicable
(2) Quantity recycled or reutilised within the unit	Not Applicable

## PART F

**Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.**

Form 4 of Hazardous Waste Annual Return is Enclosed in Annexure XIII.

## PART G

**Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.**

- We have been adopting green belt development programme for conservation of soil and protection of environment in the plant and office premises.
- In the 500 TPD Methanol project, Zero liquid Discharge (ZLD) philosophy has been provision to reduce effluent emission.

## PART H

**Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.**

Budgetary allocation for Environmental Management and pollution control systems for the proposed Integrated project is Rs 9 crores at capital cost.

## PART I

Any other particulars for improving the quality of the environment.

- Celebration of Environment Day by planting of trees as part of Green Belt development.
- To reduce dust pollution, we used to spray water in and around the 500TPD project site and residential colony area on regular basis.





# ANNEXURE XIII

FORM 4

[See rules 6(5), 13(8), 16(6) and 20(2)]

## FORM FOR FILLING ANNUAL RETURNS

To be submitted to State Pollution Control Board by 30<sup>th</sup> day of June of every year for the preceding period April to March]

1. Name and address of facility:

Assam Petro-Chemicals Limited, Namrup  
P.O. Parbatpur. Dist - Dibrugarh  
Pin - 786623  
Tel: 03742160776 Fax: 03742500231  
Email: admin\_apl@assampetrochemicals.co.in

2. Authorisation No. and Date of Issue:

WB/OTWA/HW-82/05-06/25/1452. Dated 16-12-2011  
(Memo No. WB/OTWA/HW-82/05-06/25-A)

3. Name of the authorized person and full address with telephone, fax number and e-mail:

Mr. Ratul Bordoloi,  
Managing Director,  
Assam Petro-Chemicals Limited, Namrup.  
P.O. Parbatpur. Dist - Dibrugarh  
Pin - 786623  
Tel: 03742160776 Fax: 03742500231  
Email: admin\_apl@assampetrochemicals.co.in

4. Production during the year (product wise), wherever applicable:

Methanol: 3313 MT (April 2018 to March 2019)  
Formalin: 41585 MT (April 2018 to March 2019)

### Part A. To be filled by hazardous waste generators

1. Total quantity of waste generated category wise:

(i) Spent Catalyst	: 10 MT
(ii) Used Lubricating Oil	: 4 MT
<b>Total</b>	<b>: 14 MT</b>

2. Quantity dispatched

- (i) To disposal facility : yet to be dispatched  
(ii) To recycler or co-processors or pre-processor : NA- 0  
(iii) Others : NA 0

3. Quantity utilized in-house, if any - NA 0

4. Quantity in storage at the end of the year -

(i) Spent Catalyst	: 10 MT
(ii) Used Lubricating Oil	: 4 MT
<b>Total</b>	<b>: 14 MT</b>



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**Part B. To be filled by Treatment, storage and disposal facility operators**

1. Total quantity received –
 

(i) Spent Catalyst	: 10 MT
(ii) Used Lubricating Oil	: 4 MT
<b>Total</b>	<b>: 14 MT</b>
2. Quantity in stock at the beginning of the year –
 

(i) Spent Catalyst	: 10 MT
(ii) Used Lubricating Oil	: 4 MT
<b>Total</b>	<b>: 14 MT</b>
3. Quantity treated – **NA**
4. Quantity disposed in landfills as such and after treatment – **NA**
5. Quantity incinerated (if applicable) – **NA**
6. Quantity processed other than specified above – **NA**
5. Quantity in storage at the end of the year –
 

(i) Spent Catalyst	: 10 MT
(ii) Used Lubricating Oil	: 4 MT
<b>Total</b>	<b>: 14 MT</b>

**Part C. To be filled by recyclers or co-processors or other users** **NA**

1. Quantity of waste received during the year – 0
  - (i) Domestic sources
  - (ii) Imported (if applicable)
2. Quantity in stock at the beginning of the year – 0
3. Quantity recycled or co-processed or used – 0
4. Quantity of products dispatched (wherever applicable) – 0
5. Quantity of waste generated – 0
6. Quantity of waste disposed – 0
7. Quantity re-exported (wherever applicable) – 0
8. Quantity in storage at the end of the year – 0

Signature of the Occupier or  
Operator of the disposal facility

**A.B. Gohain Barua,**  
**Manager (QC)**  
**Assam Petro-chemicals Ltd**  
**P.O. Parbatpur-786623**  
**Namrup, Assam**

Date 29/06/2019

Place APL, Namrup

