



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/04/2021/720/1743

Date: 19.08.2021

To

The Regional Officer,

Ministry of Environment, Forest and Climate Change,

Integrated Regional Office, Guwahati,

4th Floor, Housefed Building, GS Road

Rukminigaon, Guwahati-781022

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 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
A. SPECIFIC CONDITIONS		
(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 th meeting of the Standing Committee of National Board for Wildlife (NBWL), held on Nov 4, 2015 at New Delhi, approved the project.





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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>Recommendation 1 : Keep a vigil on human wildlife conflict.</p> <p>We are keeping close coordination with the Forest department for wildlife conflict. In this connection, our Company constructed 02(two) nos. of iron cages and handed over to the Jeypore Range Forest Officer to reduce man animal conflict in the nearby areas of Jeypore R.F.</p> <p>(Copy of the letter along with photographs of handing over the iron cages are enclosed as Annexure I for your ready reference).</p> <p>Recommendation 2: Regular monitoring of the conflict incidents.</p> <p>As of now we have not been reported any wildlife conflict. We are in constant touch with the respective Forest Range/Divisional office.</p> <p>Recommendation 3: Watch tower</p> <p>Three numbers of permanent watch towers which were already build near the Wildlife Sanctuary inside the project premises to keep vigil on any unauthorised activities. Further, a high-resolution CCTV with 1 km surveillance radius has been installed for 24 x 7 monitoring within the boundary and monitoring the probable conflict zones by our APL security personnel.</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 Gas Turbine by following CPCB/ASPCB guidelines to disperse gas emission into the atmosphere (photographs enclosed for ready reference as Annexure-II) and also low NO_x burners are provided with online analysers.</p>



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(iv)	<p>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, SO₂, NO_x, 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.</p>	<p>For the existing plant, the ambient air levels of PM2.5, PM10, SO₂, NO_x, CO and VOC are continuously monitored through online system and displayed near the main gate of the company. (Photograph of regular online monitoring displayed near the main gate is enclosed as Annexure III for your ready reference).</p> <p>For 500TPD Methanol Project, the provision for online continuous monitoring of ambient air quality has already been installed at site.</p>
(v)	<p>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.</p>	<p>In the existing plant, we have been closely handling chemicals/materials. Provision for the same is also made in the 500TPD Methanol Project.</p> <p>For checking fugitives emission from different sources has been done by engaging M/S Greenzone Environment Laboratory by collecting samples at different locations.(Reports are enclosed as Annexure IV for your ready reference)</p>

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(vi)	<p>For further control of fugitive emissions, following steps shall be followed:</p> <ol style="list-style-type: none">1. Closed handling system shall be provided for chemicals.2. Reflux condenser shall be provided over reactor.3. System of leak detection and repair of pump/pipeline based on preventive maintenance.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.5. Cathodic protecting shall be provided to the underground solvent storage tanks.	<p>Following provisions has been taken:</p> <ol style="list-style-type: none">1. Liquid drains containing Methanol are taken to closed blowdown system which is recycled. Gaseous vents containing H₂, CO, Methanol, CO₂, CH₄ are taken to flare through a relief network.2. Not Applicable3. 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.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.5. Cathodic protection has been provided for underground vessels like CBD drum, Methanol storage tank, buffer tanks, etc. in the 500TPD Methanol project.
(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.</p>
(viii)	<p>Total fresh water requirement from River Dilli shall not exceed 2809 m³/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 water 8400 m³/day. However, total fresh water requirement from River Dilli will not exceed 2809 m³/day after expansion also.</p>





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(ix)	Industrial effluent generating shall not exceed 1443 m ³ /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 ³ /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. During normal operation of the plant, the treated effluent will be reused/recycled in process or horticulture purpose. Water block package for 500TPD Methanol Plant has been designed to meet the norms prescribed by CPCB/ SPCB. (The schematic diagram of ETP is enclosed as Annexure V for your ready reference).
(x)	No effluent shall be discharged outside the premises and 'Zero' effluent discharge shall be followed.	'Zero' liquid discharge philosophy with required standard is under execution in 500TPD Methanol project plant. (The flow diagram of Zero Liquid Discharge Plant is enclosed as Annexure VI for your ready reference).
(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 and same is under construction.
(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 Annexure VII 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/ re-processor at a regular interval. (Copy of the Annual Return Form-4 is enclosed as Annexure VIII for your ready reference)
(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 is valid till 25.05.2023 & we are renewing as per stipulated time frame. The authorisation for the 500TPD Methanol Project is being applied and the application is in process under APCB.



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(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 from time to time.
(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 is as below which are under construction.</p> <ol style="list-style-type: none">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.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.3. In case of any tank on fire or fire in the vicinity, the cooling of adjoining tank to be resorted promptly.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.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. <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^2 heat intensity</p>





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(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.
(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 2021, the company had organised COVID-19 tests cum vaccination drive for the employees and their dependents, project consultants/contractors and workers as well. (Copy of the Circular along with photographs is enclosed as Annexure IX 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.	As part of CSR program, the Company had contributed a sum of Rs. 30,00,000/- including one day salary of APL employees & a sum of Rupees One Crore to the Chief Minister's Relief Fund for Covid-19 prevention, procurement for vaccines, oxygen beds etc. during 1 st & 2 nd wave of COVID-19 pandemic respectively. (Photograph is enclosed as Annexure X for your ready reference Moreover, the company has been undertaking CSR activities under the various heads: <ul style="list-style-type: none"> Welfare facilities to the needy people of the neighbouring villages. Relief fund to the Chief Minister's relief fund for flood victim people and fight against pandemic.



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		<ul style="list-style-type: none">Financial assistance to the private educational institute and socio-cultural organisations, etc.
(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. GENERAL CONDITIONS		
(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.
(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 authorisation for the 500TPD Methanol Project is being done.



Dr



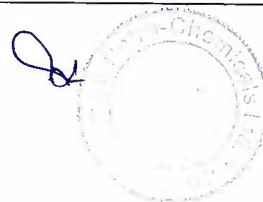
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(iv)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise levels 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 as Annexure XI 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.
(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 in Form V is enclosed as Annexure XII for your ready reference.





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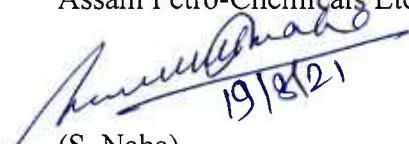
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(viii)	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the APCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.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 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.


19/8/21
(S. Naha)
Elect- Project & T.S. (i/c)

S.Naha
DGM (Elect.-Proj. & TS i/c)
Assam Petro-chemicals Ltd.
Namrup

Copy to:

1. Dr. Sudheer Chintalapati, Joint Director, 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.
2. The Principal Secretary, Department of Environment & Forest, Govt. of Assam, Guwahati, Assam - 781006, for kind information please.
3. The Member Secretary, Assam Pollution Control Board, Bamunimaidam, Guwahati – 21, Assam, for kind information please.
4. The Executive Engineer, Regional Office, State Pollution Control Board Assam, Behind ASTC, Chowkidinghee, Dibrugarh – 786001, for kind information please.



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ANNEXURE I

Ref no: APL/Proj/04/720/2021/1304

Date: 28.06.2021

To
The Range Forest Officer
Jeypore Range
Jeypore
Assam

Subject: Handover of 02(two) nos. Iron cages to reduce the man and animal conflict in the nearby areas of Jeypore R.F.

Dear Sir,

As per the requirements mentioned in the Clause (ii) under Specific Conditions of Environmental Clearance for 500TPD Methanol project received from Ministry of Environment, Forests and Climate Change (MoEFCC) on 19th May 2014, we have constructed 02(two) nos. of iron cages in accordance to the specifications provided by you vide letter no:-JP/48/2020/307 dated 26.08.2020.

Therefore, kindly consider this as a formal letter for handover of the 02(two) nos. iron cages to your good office by the Company,

Thanking You,

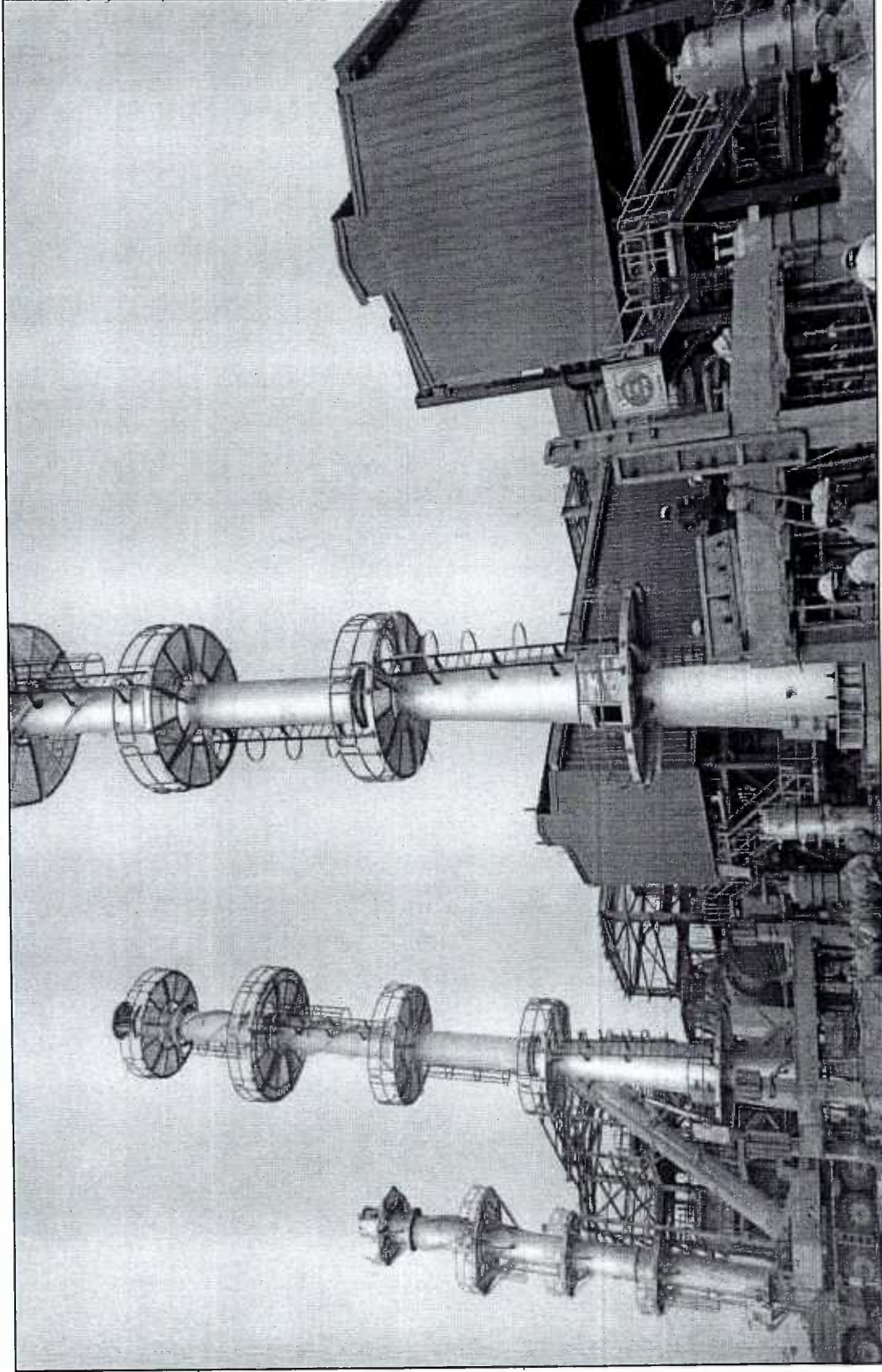
Yours Sincerely,


(S.K. Bora)
Dy. GM (Project)

*Received
Kulb
28/6/21*

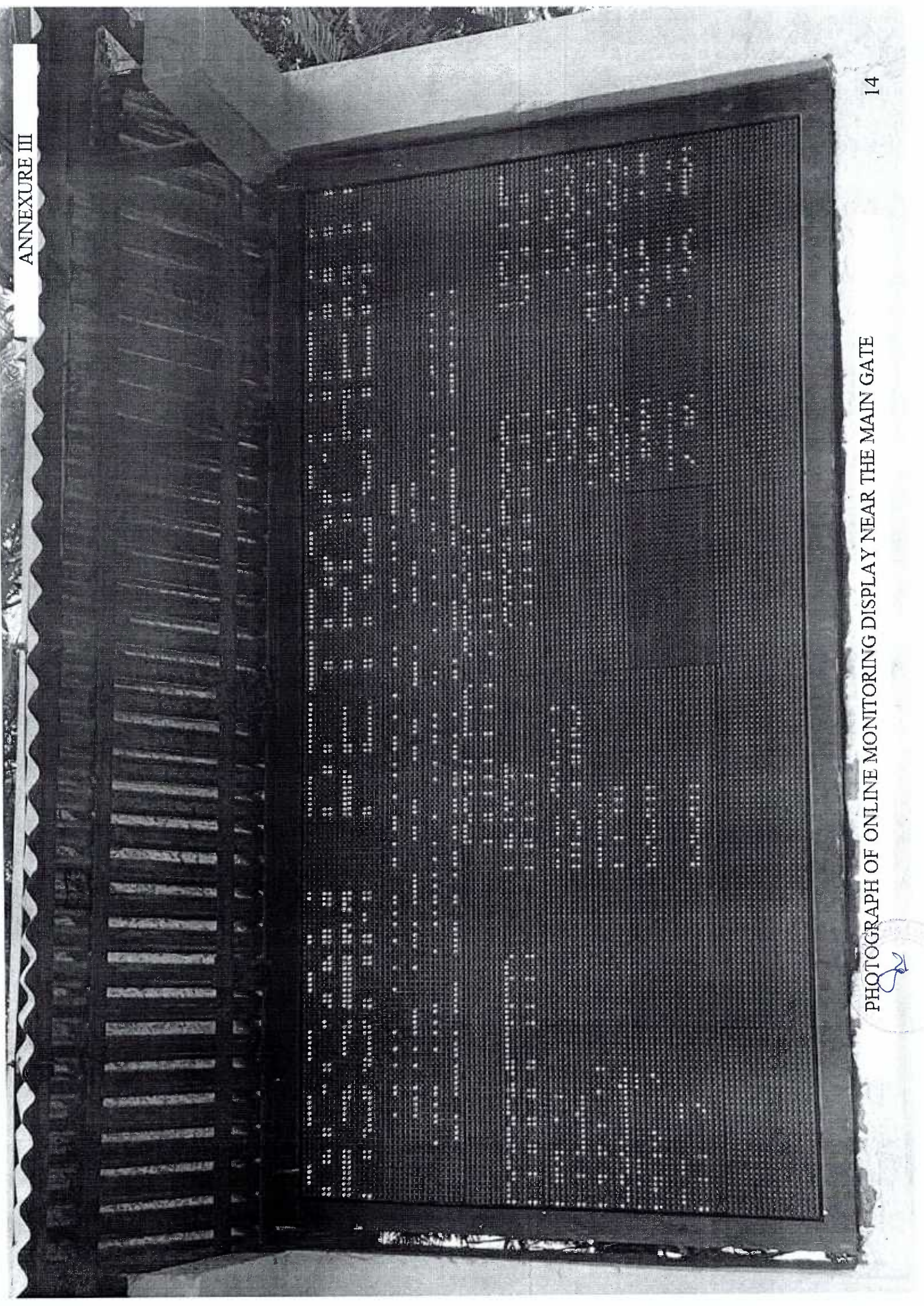


PHOTOGRAPH OF HANDING OVER OF IRON CAGES TO THE RANGE FOREST OFFICER OF JEYPORE



PHOTOGRAPH OF CAPTIVE POWER PLANT STACK





**M/s. GREENZONE**

Recognised By

Pollution Control Board, Assam

Janata Road, Digboi, Assam

Ph: 9401904228

e-mail : greenzonedigboi@gmail.com

JAS-ANZ



OHSAS 18001:2007 Certified



ISO 9001:2008



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ANNEXURE IV

AMBIENT AIR QUALITY TEST RESULTS**ASSAM PETRO-CHEMICALS LTD.****(A Govt. of Assam Undertaking)**

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

Ref. No.	GZ/DBR-APL/VOC/2021/AG17
Date of measurement	29/07/2021
Location	ASSAM PETRO-CHEMICALS LTD., Namrup
Work order no.	APL/QC/21-22/03 dated 27.07.2021

Test Results

SL. NO	PARAMETERS	UNIT	Results	LIMITS	TEST METHOD
1	VOC(East Side)	($\mu\text{g}/\text{m}^3$)	<1	NIL	CPCB GUIDELINES
2	VOC(West Side)	($\mu\text{g}/\text{m}^3$)	<1	NIL	CPCB GUIDELINES
3	VOC(North Side)	($\mu\text{g}/\text{m}^3$)	<1	NIL	CPCB GUIDELINES
4	VOC(South Side)	($\mu\text{g}/\text{m}^3$)	<1	NIL	CPCB GUIDELINES

Sampled & analysed 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.

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

ANNEXURE V

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graph LR
    Inlets["From UF/DMF/ACF back wash sump (RODM)  
From DMF/ACF back wash sump (RWTP)"] --> ET["EQUALIZATION TANK"]
    ET --> DAF["DAF SYSTEM"]
    DAF --> SS["To SLUDGE SUMP(RWTP)"]
    DAF --> FFT["FILTER FEED TANK"]
    FFT --> DMF["DMF"]
    DMF --> UF["To UF FEED TANK (In RO-DM Plant)"]
    DMF --> Hort["To HORTICULTURE"]
```

The diagram illustrates the wastewater treatment process. It begins with two input streams: 'From UF/DMF/ACF back wash sump (RODM)' and 'From DMF/ACF back wash sump (RWTP)', which enter the 'EQUALIZATION TANK'. The output of the equalization tank flows into the 'DAF SYSTEM'. From the DAF system, sludge is sent 'To SLUDGE SUMP(RWTP)', while the clarified water proceeds to the 'FILTER FEED TANK'. The filter feed tank's output goes to the 'DMF' (Dissolved Air Flotation) unit. The DMF unit has two exit points: one 'To UF FEED TANK (In RO-DM Plant)' and another 'To HORTICULTURE'. Additionally, there is an 'EFFLUENT SUMP' which receives 'Floor wash', 'Drains & Overflow', and 'Concentrate from clarifier'. The effluent sump also has a return line to the 'EQUALIZATION TANK'.

SCS

[illegible]

**SCHEMATIC DIAGRAM OF THE ZERO LIQUID DISCHARGE PLANT
OF 500TPD METHANOL PROJECT**

Symbols used:

Symbols and Abbreviations used:
AATFD - Agitated Thin Film Dryer
C - Calandria
CV - Condensate Vessel
CW - Cooling Water
ES - Entrainment Separator
VS - Vapour Separator

- ATFD Feed Tank
- Recirculation Pump
- Surface Condenser
- Vacuum Pump

**M/s. GREENZONE***Recognised By*

Pollution Control Board, Assam

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Janata Road, Digboi, Assam

Ph: 9401904228

e-mail : greenzonedigboi@gmail.com

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ISO 9001:2007



ANNEXURE VII

Ref no. GZ/GW/APL21/DBR/02/AG13

Date of issue: 04/08/2021

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: 29/07/2021

Sl. No.	Parameters	Results	
		Ground Water (Tube Well)	Surface Water (Disung Nala)
01	Temp (oC)	22	22
02	pH	6.08	6.60
03	Turbidity, NTU, Max	1.7	1.8
04	Conductivity (μs/cm)	135	132
05	Total Hardness (as CaCO ₃), mg/l,	115	164
06	Alkalinity (as CaCO ₃), mg/l,	29	36
07	Magnesium (as Mg CO ₃), mg/l,	38	34
08	Total Alkalinity (mg/l)	121	106
09	Iron (mg/l)	0.07	0.09
10	Nitrates (mg/l)	0.04	0.08
11	Ammoniacal Nitrogen (mg/l)	0.03	0.05
12	Phosphates (mg/l)	0.02	0.08
13	Fluoride (mg/l)	BDL	0.03
14	Sodium as Na (mg/l)	0.6	0.4
15	Potassium (mg/l)	1.14	1.17
16	D. O. (mg/l)	4.8	7.3
17	TDS (mg/l)	187	138
18	Chlorides (mg/l)	26	22
19	BOD (mg/l)	3.4	1.8
20	COD (mg/l)	2.6	2.9
21	Oil & Grease (mg/l)	BDL	BDL

Note: BDL=Below Detection limit,

Analyzed and verified by:



FORM – 4
[See rules 6(5), 13(8), 16(6) and 20(2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board 30th June of every year for the preceding period April to March]

1.	Name and address of the facility	: Assam Petro-chemicals Limited, Namrup P.O. Parbatpur, Dist. – Dibrugarh, Pin – 786623 Tel – 03742500331 Fax: 03742500231 Email – admin_apl@assampetrochemicals.co.in
2.	Authorization No. and Date of Issue	: WB/OTWA/HW-351/20-21/33/28 dated 26.05.2020 (Memo No. WB/OTWA/HW-351/20-21/33-A)
3.	Name of the authorized person and full address with telephone and fax number	: Mr. Atul Ch. Barman Managing Director, Assam Petrochemicals Ltd. P.O. Parbatpur, Dist. – Dibrugarh, Pin – 786623 Tel – 03742500331 Fax: 03742500231 Email – admin_apl@assampetrochemicals.co.in
4.	Production during the year (product wise), wherever applicable	: Methanol: 29861 MT (April 2020- March 2021) Formalin: 40004 MT (April 2020- March 2021)

Part A. To be filled by Hazardous waste generators

1. Total quantity of waste generated category wise
 - (i) Schedule-I, Sl no. 1.6, Spent Catalyst : 2.730 MT
 - (ii) Schedule-I, Sl no.5.1, Used Lubricating Oil : 11MT
 - Total : 13.730 MT**
2. Quantity dispatched
 - (i) To disposal facility - 0
 - (ii) To recycler or co-processor or pre-processor - 11 MT
 - (iii) Others - 0
3. Quantity utilized in-house, if any - 0
4. Quantity in storage at the end of the year-
 - (i) Schedule-I, Sl no. 1.6, Spent Catalyst : 2.730 MT
 - (ii) Schedule-I, Sl no.5.1, Used Lubricating Oil : zero
 - Total : 2.730 MT**

Part B. To be filled by Treatment, Storage and Disposal Facility operators

1. Total quantity received-
 - (i) Schedule-I, Sl no. 1.6, Spent Catalyst : 2.730 MT
 - (ii) Schedule-I, Sl no.5.1, Used Lubricating Oil : 11MT
 - Total : 13.730 MT**
2. Quantity in stock at the beginning of the year -
 - (i) Schedule-I, Sl no. 1.6, Spent Catalyst : 12.730 MT
 - (ii) Schedule-I, Sl no.5.1, Used Lubricating Oil : 15 MT
 - Total : 27.730 MT**

Sabana Monuwer

(Signature)
Dr. Mukulesh Baruah
Sr. Manager (Q/C)
Assam Petrochemicals Ltd.
Namrup, Assam

3. Quantity treated - 0
4. Quantity disposed in landfills as such and after treatment - 0
5. Quantity incinerated (if applicable) - 0
6. Quantity processed other than specified above - 0
7. Quantity in storage at the end of the year -

(i) Schedule-I, SI no. 1.6, Spent Catalyst : 12.730 MT
 (ii) Schedule-I, SI no.5.1, Used Lubricating Oil : 0
Total : 12.730 MT

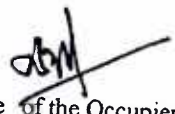
Part C. To be filled by the recyclers or co-processors or other users

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

Date : 30.06.2021

Place : Namrup



& 
 Signature of the Occupier
 or Operator of the disposal facility

Remarks:- APL doesnot have any treatment and disposal facility.
 APL only stores generated hazardous waste and sells to
 pollution Control Board approved agency.

Sabana Monowar

FORM - 4
[See rules 5(6) and 22(2)]

FORM FOR FILING ANNUAL RETURNS BY THE OCCUPIER OR OPERATOR OF A FACILITY

[To be submitted by occupier/operator of disposal facility to State Pollution Control Board/ Pollution Control Committee by 30th June of every year for the preceding period April to March]

1. Name and address of the generator/operator of facility	Assam Petro-chemicals Limited, Namrup P.O. Parbatpur, Dist. - Dibrugarh Pin - 786623, Assam			
2. Name of the authorized person and full address with telephone and fax number	Mr. Atul Ch. Barman Managing Director, Assam Petrochemicals Ltd. P.O. Parbatpur, Dist. - Dibrugarh, Pin - 786623 Tel - 03742500331 Fax: 03742500231			
3. Description of hazardous waste	Physical form with description		Chemical form	
	(a) Spent Catalyst		Inactive	
	(b) Liquid dark colored spent lube oil		Inactive	
4. Quantity of hazardous wastes (in MTA)	Type of hazardous waste		Quantity (in Tonnes/KL)	
	(a) Spent Catalyst		2.730 MT	
	(b) Liquid dark colored spent lube oil		11 Kl	
5. Description of Storage	Hazardous catalyst such as spent catalyst and used oil are stored in MS drum in a designated place inside the factory which is at a safe distance from the operational area.			
6. Description of Treatment	Nil			
7. Details of transportation	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
	NA	NA	NA	NA
8. Details of disposal of hazardous waste	Name & address of consignee	Mode of packing	Mode of transportation	Date of transportation
	NA	NA	NA	NA
9. Quantity of useful materials sent back to the manufacturers* and others#	Name and Type of material sent back to Manufacturers* and Others#		Quantity in Tonnes/KL	
	Manufacturers*		NA	
	And Others #		NA	

* delete whichever is not applicable
enclose list of other agencies

Date : 30.06.2021

Place : Namrup

Signature : 

Designation: Sr. Manager (Quality Control)

Dr. Mukulesh Baruah
Sr. Manager (Q/C)
Assam Petrochemicals Ltd.
Namrup, Assam

Sabana Monowar

TAX INVOICE

Assam Petro-Chemicals Limited

P.O.-Parbatpur, Namrup
Dist- Dibrugarh
Assam - 786623
GSTIN/UIN: 18AABCA6913A1Z6
State Name : Assam, Code : 18
CIN: U24116AS1971SGC001339
E-Mail : accts@assampetrochemicals.co.in

Consignee

AARHAM INDUSTRIES

G-1/43-44 RIICO Industrial Area
P.O.-Deeg, District - Bharatpur
Rajasthan
GSTIN/UIN : 08ADXPJ2834R1ZK
State Name : Rajasthan, Code : 08

Buyer (if other than consignee)

AARHAM INDUSTRIES

G-1/43-44 RIICO Industrial Area
P.O.-Deeg, District - Bharatpur
Rajasthan
GSTIN/UIN : 08ADXPJ2834R1ZK
State Name : Rajasthan, Code : 08

Invoice No. e-Way Bill No. Dated
APJSS/21-22/1 841151858160 8-Apr-2021

Delivery Note

Supplier's Ref.

Other Reference(s)

Buyer's Order No.

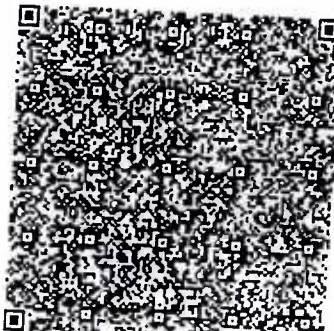
Dated

Despatch Document No.

Delivery Note Date

Despatched through

Destination



Sl No	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	Spent Converter Catalyst	38151290	12,730.000 kg	41.00	kg		521,930.00
2	M S Drum	72041000	52.00 nos	250.00	nos		13,000.00
							534,930.00
	IGST						96,287.40
	TCS on Sale of Scrap						6,313.00
	Less :						637,530.40
							(-)0.40
	Total						₹ 637,530.00

Amount Chargeable (in words)

INR Six Hundred Thirty Seven Thousand Five Hundred Thirty Only

E. & O.E

HSN/SAC	Taxable Value	Rate	Integrated Tax Amount	Total Tax Amount
38151290	521,930.00	18%	93,947.40	93,947.40
72041000	13,000.00	18%	2,340.00	2,340.00
Total	534,930.00		96,287.40	96,287.40

Tax Amount (in words) : INR Ninety Six Thousand Two Hundred Eighty Seven and Forty paise Only

Company's PAN

: AABCA6913A

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for Assam Petro-Chemicals Limited

SUBJECT TO DIBRUGARH JURISDICTION

This is a Computer Generated Invoice

Authorized Signatory
R. Dirlal
Asstt. Manager (Despatch)
Assam Petrochemicals Ltd
Namrup

Assam Petro-Chemicals Limited P O -Parbatpur, Namrup Dist- Dibrugarh Assam - 786623 GSTIN/UIN: 18AABCA6913A1Z6 State Name : Assam, Code : 18 CIN: U24116AS1971SGC001339 E-Mail : accts@assampetrochemicals.co.in		Invoice No. APL/SS/20-21/01	Dated 29-Dec-2020
Buyer ALLIED INDUSTRIES DIGBOI ROAD MAKUM JUNCTION DIST. - TINSUKIA ASSAM-786170 GSTIN/UIN : 18AGCPS0116M1ZC PAN/IT No : AGCPS0116M State Name : Assam, Code : 18		Delivery Note	Mode/Terms of Payment
		Supplier's Ref. APL/Stores/20-21/01-02	Other Reference(s)
		Buyer's Order No.	Dated
		Despatch Document No.	Delivery Note Date
		Despatched through	Destination
		Terms of Delivery	

Amount Chargeable (in words)

HSN/SAC	Taxable Value	Central Tax		State Tax		Total Tax Amount
		Rate	Amount	Rate	Amount	
27109900	180,000.00	9%	16,200.00	9%	16,200.00	32,400.00
72041000	18,750.00	9%	1,687.50	9%	1,687.50	3,375.00
	Total		17,887.50		17,887.50	36,775.00

Company's PAN : AABCA6913A

SUBJECT TO DIBRUGARH JURISDICTION



ASSAM PETRO-CHEMICALS LIMITED
(A Government of Assam Undertaking) | An ISO 9001:2008 Certified Company
CIN- U24116AS1971SGC001339. GSTIN: 18AAAC05917A1Z6

Head Office & Factory Site
Assam Petro-Chemicals Ltd. Harnam P.O. Patkaguri
Dist. Dibrugarh, Assam-786002
Phone: (0374) 2600331/2600246/2600516 Fax: (0374) 2600331
Email: nripa@apchemetn.com, apchemetn@apchemetn.com

ASSAM PETRO-CHEMICALS LIMITED
NAMRU P

Ref No:- APL/Med/Cir/21-22/25

Date:- 21.05.2021

CIRCULAR

Sub: 1st dose vaccination above 45yr.

All employees & dependants and cleaning person etc. of Assam Petro-Chemicals Limited are hereby requested to submit a copy of age proof document along with their valid contact number from 21.05.2021- 24.05.2021 to Mr. Khirood Gogoi, Officer (Medical) during working hours, for ensuring Covid 19, 1ST DOSE vaccination above 45years who have not vaccinated yet. In this regard, we are going to organise a vaccination camp at our campus to be conducted in coordination with local Civil Authority very soon.

Moreover, with a view to conduct the vaccination programme smoothly all the employees are hereby requested to get themselves registered in the website <https://www.cowin.gov.in>.

We solicit kind co-operation from all concern.

To,
All Concerned

W. Sonowal
21/5/21
Dr. B. Sonowal
Dy. CMO

1. MD ---- For Kind information please
2. GGM(P&M) -----do-----
3. Director of Finance -----do-----
4. All GM/DGMs -----do-----
5. All HOD/Sectional Heads ---do----
6. Manager (Admin) . ---do---
7. President/GS of APLOA---for information Please
8. President/GS of APWU-----do-----
9. All Notice board

COVID Test Camp at APL Hospital on 08.07.2021.

1 message

Subrata Bora <bora.sk@assampetrochemicals.co.in>

7 July 2021 at 18:21

To: bridgeroofapl <bridgeroof.apl@gmail.com>, APL Composite <aplcomprcm@tuaman.co.in>, tuamannamrup <tuamannamrup@tuaman.co.in>, kguhathakurata <kguhathakurata@tuaman.co.in>, PCT Project-APL <18-2i0042@paharpur.com>, Subrata Mondal <subrata.m@paharpur.com>, powermaxapl <powermaxapl@gmail.com>, namrupsite <namrupsite@drilexwater.com>, mirajeilapl <miraj.eilapl@gmail.com>, isgecapl <isgecapl@gmail.com>, rahulkumarbaidya <rahul.kumar.baidya@linde.com>, indragogoi702 <indragogoi702@gmail.com>, engineeringdj <engineeringdj@gmail.com>, dccapl672 <dcc.apl672@gmail.com>, OVAL Project <ovalprojects@gmail.com>, Swarup Ojha <swarup.ojha@ovalprojects.com>, chetiainfracon <chetiainfracon@gmail.com>, awipltceapl <awipltceapl@gmail.com>, Dhananjay Bhor <dhananjay.bhor@jkindia.com>, SUKHENDU GHOSH <sukhendu.ghosh@jkindia.com>, cathprotechipl <cathprotechipl@gmail.com>, pungliasanjay <pungliasanjay@gmail.com>, Sanjay Punglia <sanjay@vprp.co.in>
Cc: md <md@assampetrochemicals.co.in>, Atul Chandra <barman.ac@assampetrochemicals.co.in>, bhattadeb <bhatta.deb@assampetrochemicals.co.in>, borahnb <borah.nb@assampetrochemicals.co.in>, siba prasad <borahsp@assampetrochemicals.co.in>, Somnath Naha <naha.s@assampetrochemicals.co.in>, chetrykharka <chetry.kharka@assampetrochemicals.co.in>, phukannbj <phukan.nbj@assampetrochemicals.co.in>, mechproj <mech.proj@assampetrochemicals.co.in>, instproj <inst.proj@assampetrochemicals.co.in>, electproj <elect.proj@assampetrochemicals.co.in>, projsafety <proj.safety@assampetrochemicals.co.in>, bchoudhury <b.choudhury@assampetrochemicals.co.in>, RK Pancham <singh.rk@assampetrochemicals.co.in>, productionproj <production.proj@assampetrochemicals.co.in>, eila672apl1 <eila672.apl1@gmail.com>, zmmansuri <zmmansuri@tce.co.in>

Dear Sir,

This is for all concerned that a COVID-19 test camp is scheduled to be held on 08.07.2021 at APL Hospital from 9:30 AM onward. All RCMs / Site In-charges are requested to ensure their staffs/ workers to be tested accordingly.

With regards

Subrata Kumar Bora
DGM(Project)
Assam Petro-chemicals Ltd.
Namrup-786623
Dist:Dibrugarh,Assam
Mo.No.8011132551



PHOTOGRAPHS OF COVID-19 VACCINATION DRIVE IN THE APL HOSPITAL



Assam Petro-Chemicals Limited had contributed a sum of Rs One crore to the Chief Minister's Relief Fund for Covid -19 prevention, procurement of vaccines, oxygen beds etc. at Janata Bhawan, Guwahati.





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

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ISO 9001:2015
OHSAS 18001:2007 Certified

ISO 14001:2015



REGISTERED

ANNEXURE XI

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	29/07/2021
Work order no.	APL/QC/Env/21-22/03
Report Reference No.	GZ/NM/APL21/DBR/AG14

Measurement Results

(Day Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1.	Near Guest House Gate	73	66	70.9
2.	Near Canteen	68	64	66.2
3.	Near Laboratory & industry Area	75	69	71.9

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

Report Verified

[Signature]

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.



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Pollution Control Board, Assam

Janata Road, Digboi, Assam

Ph. 9401904228

e-mail : greenzonedigboi@gmail.com

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ISO 9001:2007 Certified

ISO 9001:2008



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	29/07/2021
Work order no.	APL/QC/Env/21-22/03
Report Reference No.	GZ/NM/APL21/DBR/AG16

Measurement Results

(Night Time)

Sl. No.	Location	Maximum (dB-A)	Minimum (dB-A)	Leq (dB-A)
1.	Near Guest House Gate	62	58	60.2
2.	Near Canteen	58	52	55.4
3.	Near Laboratory & industry Area	68	63	65.7

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

Report Verifier



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.

FORM V
(See Rule 14)

Environmental Statement for the financial year ending on 31st March 2021

PART A

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

Mr. Atul Ch. Barman
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

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

Red Category, 1057 Petrochemical Manufacturing

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

Methanol 3000 Tonnes/ Month
Formalin 3750 Tonnes/ Month

- (iv) **Year of establishment**

June 1976

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

Last Environmental Statement was submitted on 30th June 2020.

PART B

Water and Raw Material Consumption

- 1. Water consumption**
m³/ d

Process : 48 m³/day
Cooling : 737 m³/day
Domestic: 1750 m³/day

Sabana Monuwar

[Signature]
29/6/20
Dr. Mukulesh Baruah
Sr. Manager (Q/C)
Assam Petrochemicals Ltd.
Namrup, Assam

Name of Products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
For Existing Plant		
Methanol	7.7 m ³ /MT	8.0. m ³ /MT
Formalin	0.67 m ³ /MT	0.59 m ³ /MT
For Proposed Plant		
Methanol	Not Applicable	Not Applicable

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			
Natural Gas	Methanol	1039 NM ³	1171 NM ³
Methanol	Formalin	0.488 MT	0.483 MT
For Proposed Plant			
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
For Existing Plant			
Water	Enclosed in Annexure I, II		
Air	Enclosed in Annexure III, IV		
For Proposed Plant			
Water	Enclosed in Annexure I, II		
Air	Enclosed in Annexure III, IV		

Sabana Monwar

29/6/20
Sr. Manager (Q/C)
Assam Petrochemicals Ltd.
Mamrup, Assam

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	Category 1.6, Spent Catalyst: 833 kg	Category 1.6, Spent Catalyst: 2730 kg
	Category 5.1, Used Oil: 333 kg	Category 5.1, Used Oil: 11Kl
(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
For Existing Plant		
(1)Process	Category 1.6, Spent Catalyst: 833 kg	Category 1.6, Spent Catalyst: 2730 kg
(1)From Pollution Control Facilities	Not Applicable	
(2)Quantity recycled or reutilised within the unit	Not Applicable	
For Proposed Plant		
(1) Process	Not Applicable	
(2) From Pollution Control Facilities	Not Applicable	
(2) Quantity recycled or reutilised within the unit	Not Applicable	

Sabana Monowar

[Signature]
 Sr. Manager (Q/A)
 Assam Petrochemicals Ltd.
 Dibrugarh, Assam

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 herewith.

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 and recurring cost per annum 40 lakhs.

PART I

Any other particulars for improving the quality of the environment.

- Awareness programme on ban on single-use plastic pollution.
- 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.

Sabana Mondal

[Signature]
29/6/21
Dr. Mukules Baruah
Sr. Manager (Q/C)
Assam Petrochemicals Ltd.
Namrup, Assam



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Recognised By

Pollution Control Board, Assam

Janata Road, Digbol, Assam

Ph. 9401904228

e-mail : greenzonedigbol@gmail.com

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ISO 9001:2000



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Ref no. GZ/GW/APL20/DBR/R-1152

Date of issue: 01/12/2020

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: 13/11/2020

Sl. No.	Parameters	Results	
		Ground Water (Tube Well)	Surface Water (Disung Nala)
01	Temp (oC)	21	21
02	pH	6.82	6.99
03	Turbidity, NTU, Max	1.6	1.9
04	Conductivity (µs/cm)	138	134
05	Total Hardness (as CaCO ₃), mg/l,	119	167
06	Alkalinity (as CaCO ₃), mg/l,	27	34
07	Magnesium (as Mg CO ₃), mg/l,	38	39
08	Total Alkalinity (mg/l)	124	108
09	Iron (mg/l)	0.05	0.08
10	Nitrates (mg/l)	0.02	0.06
11	Ammoniacal Nitrogen (mg/l)	0.04	0.01
12	Phosphates (mg/l)	0.02	0.09
13	Fluoride (mg/l)	BDL	0.05
14	Sodium as Na (mg/l)	0.7	0.8
15	Potassium (mg/l)	1.17	1.14
16	D. O. (mg/l)	4.1	5.9
17	TDS (mg/l)	185	134
18	Chlorides (mg/l)	27	24
19	BOD (mg/l)	2.4	2.1
20	COD (mg/l)	2.8	2.9
21	Oil & Grease (mg/l)	BDL	BDL

Note: BDL=Below Detection limit,

Analyzed and verified by:

GREENZONE



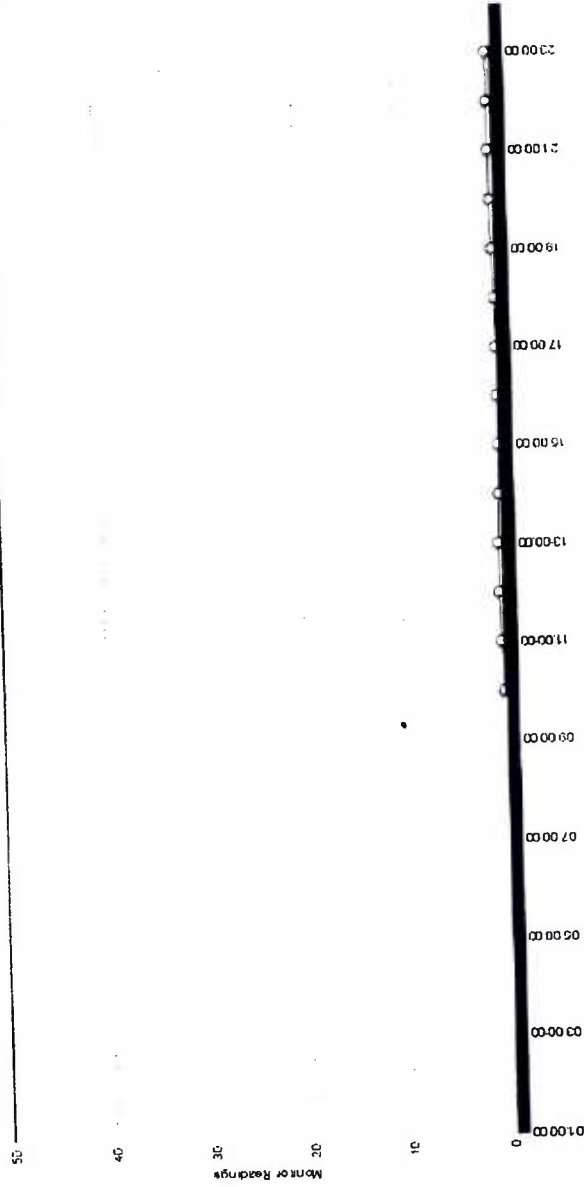
Sabana Monowar

Annexure-II

Average Report - Real Time Data:     

   Not secure | xylem-errand.com/averageReport.php

24 hrs Average data of BOD 50 (Mg/l)



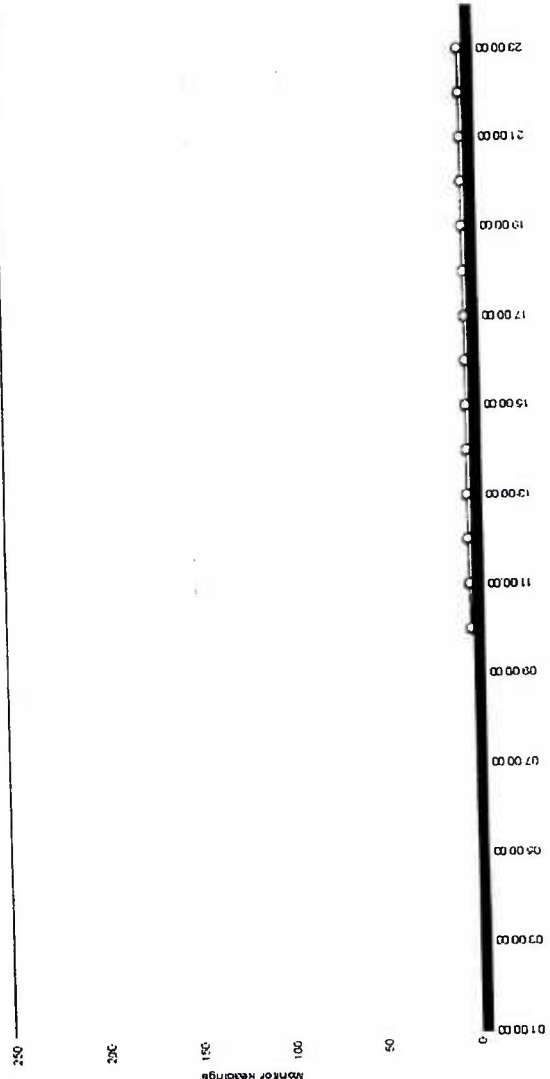
Date & Time

13-04-2021

24 hrs Average data of BOD 50 (Mg/l)

Sabana Monowar

24 hrs Average data of COD 250 (Mg/l)



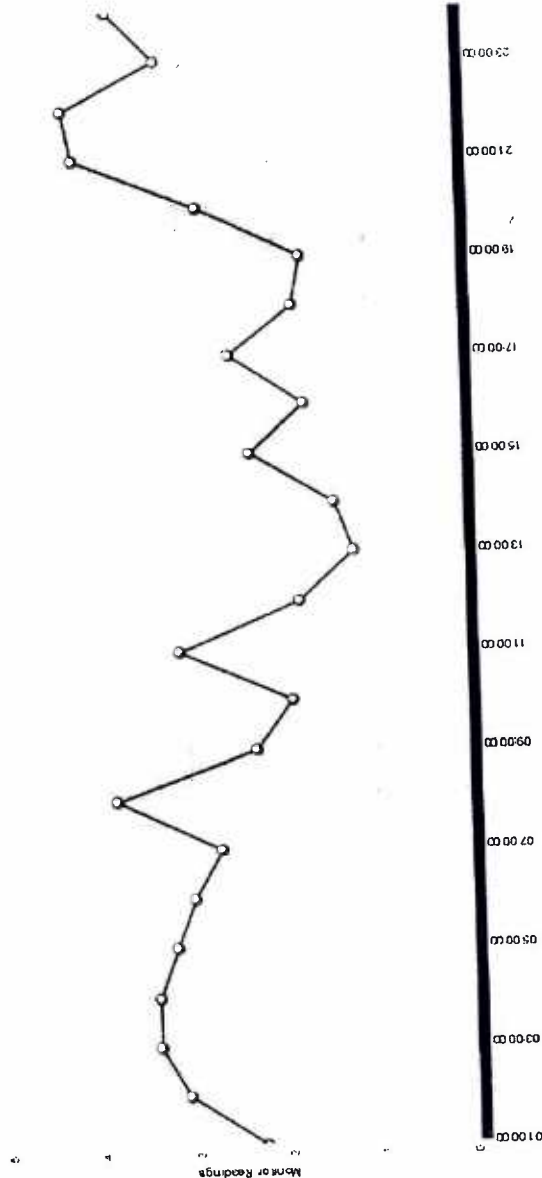
Date & Time

13-04-2021

24 hrs Average data of COD 250 (Mg/l)

Sabara Mondal

24 hrs Average data of FLOW (M3/hr)

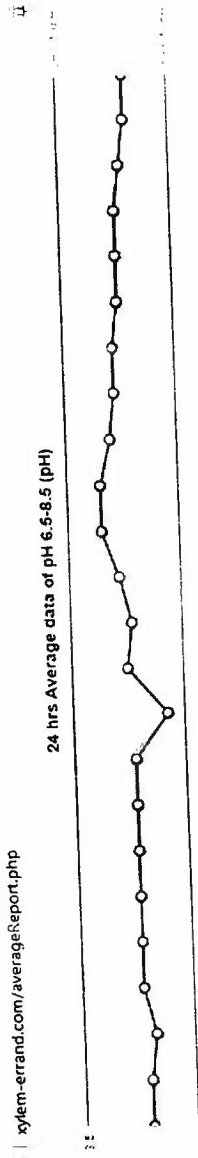


Date & Time
13-04-2021

24 hrs Average data of FLOW (M3/hr)

13-04-2021

Sabana Monwar



Monitor Readings



Date & Time
13.04.2021

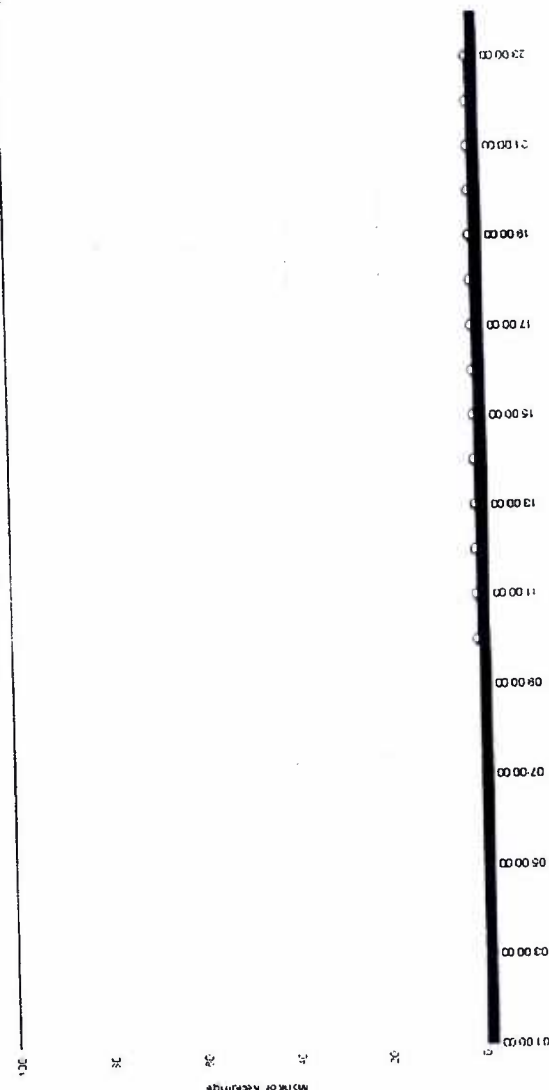
24 hrs Average data of pH 6.5-8.5 (pH)

13.04.2021

Sabana Mondal

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24 hrs Average data of TSS 100 (Mg/l)



Date & Time

17-34-2021

24 hrs Average data of TSS 100 (Mg/l)

13-04-2021

Annexure - III



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M/s. GREENZONE

Recognised By

Pollution Control Board, Assam

Janata Road, Digboi, Assam

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IAS-ANZ



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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
Date of measurement	13/11/2020
Report Reference No.	GZ/AAQ1/APL20/DBR/R-1145
Work order no.	APL/QC/19-20/08 dated 16.07.2019

Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			LABORATORY		
1	Particulate Matter (PM ₁₀)	($\mu\text{g}/\text{m}^3$)	54	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	($\mu\text{g}/\text{m}^3$)	27	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO ₂)	($\mu\text{g}/\text{m}^3$)	15.8	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	($\mu\text{g}/\text{m}^3$)	23	80	IS 5182(VI)
5	Carbon Monoxide (CO)	(mg/m^3)	<0.1	2	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 18th NOVEMBER 2009

Sampled & analyzed by:-

[Signature]
DATE:
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.

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

Sabana Monowar

**M/s. GREENZONE**

Recognised By

Pollution Control Board, Assam

reener future...

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Ph: 9401904228
e-mail : greenzonedigboi@gmail.com

JAS-ANZ



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ISO 9001:2008



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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	INFRONT OF FINANCE AND ACCOUNTS BUILDING
Date of measurement	13/11/2020
Report Reference No.	GZ/AAQ2/APL20/DBR/R-1146
Work order no.	APL/QC/19-20/08 dated 16.07.2019

Test Results

SL. NO	PARAMETERS	UNIT	Location	LIMITS	TEST METHOD
			CANTEEN		
1	Particulate Matter (PM ₁₀)	($\mu\text{g}/\text{m}^3$)	61	100	IS 5182(23)
2	Particulate Matter (PM _{2.5})	($\mu\text{g}/\text{m}^3$)	29	60	CPCB GUIDELINES
3	Sulphur Dioxide(SO ₂)	($\mu\text{g}/\text{m}^3$)	15	80	IS 5182(2)
4	Nitrogen Dioxide (NO ₂)	($\mu\text{g}/\text{m}^3$)	19	80	IS 5182(VI)
5	Carbon Monoxide (CO)	(mg/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 18th 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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Annex
- IV -

Online
ATR emission monitoring display