



Assam Petro-chemicals Ltd.

CIN-L24116AS19715GC001339

(A Government of Assam Undertaking)

NAMRUP - P.O. PARBATPUR - 786623 ASSAM (INDIA)

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Ref No : APL/Proj/04/ 259B

20 Nov,2014

To
The Member Secretary,
Pollution Control Board, Assam
Bamunimaidam,
Gowahati-780021.

Sub: Compliance of General Conditions as per the conditions of Environmental Clearance (EC) letter.

Ref. No.: EC letter No.: F.No.J-11011/469/2011-IA II (I) Dated 19.05.2014.

Dear Sir,

In compliance with the General Conditions No.(vii) as stipulated by the above mentioned Environmental Clearance (EC) letter accorded by MoEF for the 500 TPD Methanol and 200 TPD Acetic Acid expansion project of APL, please find enclosed herewith the filled up Form V.

Thanking you,
For and on behalf of
Assam Petro-Chemicals Ltd.

(A.C.Barman)
Dy.General Manager (Project)

Copy to:
Executive Engineer,
Regional office, PCBA,
Bairaginath, Dibrugarh, Assam.

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V (See rule 14)

Environmental Statement for the financial year ending with 31st March, 2014

PART-A

i. Name and address of the owner/ occupier of the industry /operation or process:

Mr.Ratul Bordoloi, Managing Director, Assam Petro-Chemicals Ltd., Namrup, P.O.: Parbatpur, Dist.: Dibrugarh (Assam).

ii. Industry category Primary-(SIC Code) Secondary- (SIC Code):

Red category.

iii. Production category – Units- Red.

iv. Year of establishment : 1976.

v. Date of the last environmental statement submitted: Environmental

Clearance (EC) received on 19 May, 2014 vide letter No. F.No.J-11011/469/2011-1A II (I).

PART-B

Water and Raw Material Consumption:

i. Water consumption in m³/d for (for existing/proposed)

Process : 583/1200.

Cooling : 871/39600.

Domestic : 1804.

For Existing plant:

Name of Products	Process water consumption per unit of products	
	During the previous year	During the current financial year
1. Methanol	1. 8.85 m ³ /M.T.	1. 7.08 m ³ /M.T.
2. Formalin	2. 8.52 m ³ /M.T.	2. 5.46 m ³ /M.T.

For Proposed plant:

Name of Products	Process water consumption per unit of products	
	During the previous year	During the current financial year
1. Methanol	Not Applicable	Not Applicable
2. Acetic Acid		

ii. *Raw material consumption*

For Existing plant:

Name of raw materials [±]	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
1. Natural Gas (NG)	Methanol/Formalin	1. 1034 NM ³	1. 1109 NM ³
2. Electricity		2. 507 KW/H	2. 521 KW/H

For Proposed plant:

Name of raw materials [±]	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
1. Natural Gas (NG)	Methanol/Acetic Acid	Not Applicable	Not Applicable
2. Electricity			

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

PART-C

Pollution discharged to environment/unit of output
(Parameters specified in the consent issued)

For Existing plant:

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage variation of from prescribed standards with reasons.
(a) Water	--	As given in Annexure I	Nil
(b) Air	--	As given in Annexure I	Nil

For proposed plant:

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage variation of from prescribed standards with reasons.
(a) Water	--	Not Applicable	Not Applicable
(b) Air	--		

PART-D

HAZARDOUS WASTES

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

For Existing plant:

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process	1. 21.578 MT	1. 23.1 MT
2. From Pollution Control Facilities	2. Not applicable.	2. Not applicable.

For proposed plant:

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process		
2. From Pollution Control Facilities	Not Applicable	Not Applicable

SOLID WASTES:**PART - E**

For existing plant:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	Nil	Nil
b. From Pollution Control Facility	Nil	Nil
c. Quantity recycled or re-utilised within the unit.	Nil	Nil

For proposed plant:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
a. From process	Not Applicable	Not Applicable
b. From Pollution Control Facility		
c. Quantity recycled or re-utilised within the unit.		

PART - F

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

As given in Annexure 2 (for Existing plant).
Not applicable (for Proposed plant).

PART-G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

PART - II

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

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

PART - I

MISCELLANEOUS:

Any other particulars In respect of environmental protection and abatement of pollution.

A REPORT ON

Ambient Air Quality & Stack Emission Test

at

M/s Assam Petro-Chemicals Limited

Namrup

PO: Parbatpur, Dist: Dibrugarh

Assam

(NOVEMBER, 2014)

Submitted to

M/s Assam Petro-Chemicals Limited
Namrup, PO: Parbatpur
Dist: Dibrugarh
Assam

Submitted by

ENVIROCON
Digboi Stores Building
AOD New Market
Digboi: Assam

Annexure I

Recognized By
Pollution Control Board, Assam

AMBIENT AIR QUALITY TEST RESULTS

M/s Assam Petro-Chemicals Limited
Namrup; PO: Parbatpur
Dist: Dibrugarh
Assam

(NOVEMBER 2014)

LOCATION ↓	Date of Sampling	PM 2.5 ($\mu\text{g}/\text{m}^3$)	PM 10 ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
LIMITS →	--	60	100	80	80	4.0 (1 hr. limit)
Near APL Hospital	24.11.2014	09.36	26.73	08.4	ND	ND
BVFCL Residential Area	24.11.2014	16.54	38.33	11.6	ND	ND
Near Methanol Plant	24.11.2014	21.87	56.14	17.2	07.6	ND

ND: Not Detected

Analysis Protocol: IS 5182

Sampled & Analysed by: ENVIROCON, Digboi



Checked by: Bivash Mahanta, ENVIROCON

- NOTE:
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, Digboi Stores Building, New Market, Digboi - 786171, Assam.

BOILER STACK EMISSION TEST RESULTS

M/s Assam Petro-Chemicals Limited
Namrup, PO: Parbatpur
Dist: Dibrugarh
Assam

(NOVEMBER 2014)

Report Ref. No.: ENV/APL/SET/Nov/01/2014; Dated: 04.12.2014			
Sample Type		Flue Gas	
Date & Time of Sampling		24.11.2014; 2.00 pm to 4.00 pm	
Sample Collected From		Stack attached to ID Fan	
Sample Collection Point		ID Fan Outlet	
PHYSICAL INSPECTION REPORT OF THE STACK			
Material of Construction		MS	
Shape of the Stack		Circular	
Height of the Stack (Mtr.)		30	
Platform & Ladder		Permanent Ladder Attached to the Stack	
Height of the Sampling Point from Ground Level		7.30 Mtr.	
Fuel Used		Natural Gas	
Flow Rate (Nm ³ /hr)		3,78,910	
RESULT OF STCK EMISSION TEST			
Sl. No.	Parameters	Analysis Protocols	Results
01	Flue Gas Temp. (°C)	IS 11255; Part III	135
02	Flue Gas Velocity (m/sec)	IS 11255; Part III	10.4
03	Particulate Matter (mg/Nm ³)	IS 11255; Part I	12.2
04	SO ₂ (ppm)	USEPA- 6C	04
05	NO _x (ppm)	USEPA- 7E	51
06	CO (ppm)	IS 11255; Part III	26
07	CO ₂ % (v/v)	IS 11255; Part III	3.4
08	O ₂ % (v/v)	IS 11255; Part III	14.1
Pollution Control Device Attached to the Stack: NIL			

Bivash Mahanta

Checked By: Bivash Mahanta, ENVIROCON

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SOIL TEST RESULTS

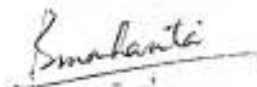
M/s Assam Petro-Chemicals Limited
Namrup; PO: Parbatpur
Dist: Dibrugarh
Assam

(NOVEMBER 2014)

Sampling Point : Near Methanol Tank Yard

Sampling Date : 24.11.2014

Sl. No.	Parameters	Unit	Results
01	pH (10% solution)	--	6.34
02	Electrical Conductivity	mmhos/cm	0.87
03	Moisture Content	%	21.6
04	Organic Carbon	%	1.28
05	Chloride (as Cl)	ppm	131
06	Sulfate (as SO ₄)	ppm	67
07	Iron (as Fe)	ppm	0.72
08	Calcium (as Ca)	ppm	81
09	Magnesium (as Mg)	ppm	54
10	Sodium (as Na)	ppm	93



Checked By: Bivash Mahanta, ENVIROCON

NOTE: 1. Results reported are valid at the time of and under the prevailing conditions of measurement.
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Recognized By
Pollution Control Board, Assam

Digboi Stores Building, New Market
Digboi, Assam
Ph. 0375]-264414, 9435008657, 8876028672
e-mail : envirocon@rediffmail.com
website : www.envirocon.net.in



WASTE WATER ANALYSIS RESULTS

M/s Assam Petro - Chemicals Limited
Namrup P.O: Prabatpur
Dist: Dibrugarh
Assam

(NOVEMBER 2014)

Ref No. : ENV/APL/WW/Nov/01/2014, Dated: 04.12.2014
Sample Type : Waste Water
Sample Source : Collected from Outlet Drain (Near Namghar)
Sample Collected By : Client & Sent to Laboratory
Sample Collected On : 24.11.2014
Analysis Protocol : Analysis carried out as per 'IS 2490'

Sl. No.	Parameters	Results	Limits
1	pH	6.7	5.5 - 9.0
2	DO	4.5 mg/l	> 4
3	COD	142 mg/l	250
4	BOD	23 mg/l	30
5	TSS	74 mg/l	100
6	TDS	1426 mg/l	2100
7	Oil & Grease	2.2 mg/l	10

Report Verified by:


Pankaj Baroi
ENVIROCON 04/12/14

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Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs

Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

FORM 3

[See rule 5 (6), and 22 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS WASTES BY THE OCCUPIER OR OPERATOR OF A FACILITY

1. Name and address of the occupier or operator of a facility: Sr. R. Bordoi, Managing Director,
Assam Petro-Chemicals Ltd., Namrup
Distt. Dibrugarh, Assam.

2. Date of issuance of authorisation and its reference number: W3/01/WA/HW-82/05-06/23 etc.
18.12.2011

3. Description of hazardous waste:

Physical form with description	Chemical form	Total weight (in Kg)
Solid pellets black coloured Spent Desulphurizer Catalyst	inactive	03.50 MT
Solid Ringet black coloured Spent Reformer Catalyst	inactive	12.00 MT
Solid pellets black coloured Spent converter Catalyst	inactive	06.00 MT
Liquid dark coloured spent lube oil	inactive	01.600 MT

4. Description of storage and treatment of hazardous waste:

Date	Method of storage of hazardous wastes	Date	Method of treatment of hazardous wastes
10.06.2014	Hazardous wastes such as catalyst & spent lube oil are stored in M.S. drums in a Godown facility inside the factory which is at a safe distance from the operational areas.	10.06.2014	N.A

5. Details of transportation of hazardous waste:

Name and address of the consignee of package	Mode of packing of the waste for transportation	Mode of transportation to site of disposal	Date of transportation
N.A	N.A	N.A	N.A

6. Details of disposal of hazardous waste:

Date of disposal	Concentration of hazardous constituents in the final waste form	Site of disposal (Identify the location on the relevant layout drawing for reference)	Method of disposal	Persons involved in disposal
N.A	N.A	N.A	N.A	N.A

Prepared by

 17.06.14



FORM 3

[See rule 5 (6), and 22 (1)]

FORMAT FOR MAINTAINING RECORDS OF HAZARDOUS WASTES BY THE OCCUPIER OR OPERATOR OF A FACILITY

1. Name and address of the occupier or operator of a facility: Sri R. Bordoloi, Managing Director
Assam Petro-Chemicals Ltd., Namrup
Distt. Dibrugarh, Assam

2. Date of issuance of authorisation and its reference number: WB/OT/WA/HW-82/05-05/23 dtd
16.12.2011

3. Description of hazardous waste:

Physical form with description	Chemical form	Total weight (in Kg)
Solid pellets black coloured Spent Desulphurizer Catalyst	Inactive	3138 Kg (approx.)
Solid Ringet black coloured Spent Reformer Catalyst	Inactive	4000 Kg (approx.)
Solid pellets black coloured Spent converter Catalyst	Inactive	12440 Kg (approx.)
Liquid dark coloured spent lube oil	Inactive	2000 lts. (approx.)

4. Description of storage and treatment of hazardous waste:

Date	Method of storage of hazardous wastes	Date	Method of treatment of hazardous wastes
03.04.2013	Spent lube oil stored in M.S. Drums	03.04.2013	N.A.
03.04.2013	Spent catalyst stored in M.S. Drums	03.04.2013	N.A.

5. Details of transportation of hazardous waste:

Name and address of the consignee of package	Mode of packing of the waste for transportation	Mode of transportation to site of disposal	Date of transportation
N.A.	N.A.	N.A.	N.A.

6. Details of disposal of hazardous waste:

Date of disposal	Concentration of hazardous constituents in the final waste form	Site of disposal (identify the location on the relevant layout drawing for reference)	Method of disposal	Photo attached to disposal
N.A.	N.A.	N.A.	N.A.	N.A.

5/09/13