



Assam Petro-chemicals Ltd.

(A Government of Assam Undertaking)

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

Phone : MD-2160776, 2500217 EPBX- 2500331,2500212,2500518,2500246

FAX : 2500231. STD : (0374) Email : ncppl@sascharmes.in

Ref No: APL/Proj/04/ 259 A

20th Nov, 2014

To
Shri Anil Kumar, IFS
Addl. Principal Chief Conservator of Forests (Central),
Regional Office (North-Eastern Zone), Shillong
Ministry of Env. And Forests (MoEF),
Law-U,Sib, Lumbatgen, Near MTC Workshop,
Shillong-793021

E-mail:- roncz.sng-mef@pic.in

Tel: 0364-2227673, 2227929

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

Ref. No.: EC letter No.: F.No.J-11011/469/2011-1A II (I) Dated 19.05.2014.

Dear Sir,

In compliance with the Specific and General conditions as stipulated by the Environmental Clearance (EC) accorded by MoEF for the 500 TPD Methanol and 200 TPD Acetic Acid expansion project of APL, in their above mentioned letter, please find herewith our reply as given below:

Point no.	Description	APL's reports/views
A. SPECIFIC CONDITIONS		
i.	Environmental clearance is subject to their obtaining prior clearance from the Standing Committee of the National Board for Wildlife as applicable regarding Patkai Wild life Sanctuary. Grant of environmental clearance does not necessarily implies that wildlife clearance shall be granted to the project and that their proposals for wildlife	State Board for Wildlife, in its meeting dated 21.10.2014, approved the proposal of the project proponent. The same will be sent very shortly to Principal Chief Conservator of Forest (Wildlife) for onward submission to the Standing Committee of the National Board for Wildlife for their approval.

REGD. OFFICE: 4th Floor Orion Place, G.S. Road Bhangagarh, Guwahati - 781005, Assam (INDIA)

Phone : (0361)-2461470, 2461471. Fax: (0361)- 2461470

E-mail : apgh@sancharnet.in



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	clearance will be considered by the 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.	
ii	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.	Has already been complied with.
iii	Adequate stack height shall be provided to gas turbine as per CPCB/Assam State Pollution Control Board (ASPCB) guidelines to disperse gases emissions into the atmosphere. Low NOx burners shall be provided with on-line analyzers.	Will be complied with.
iv	Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R.No.826(E) dt. 16 th Sept. 2009. The levels of PM _{2.5} , PM ₁₀ , SO ₂ , 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	Enclosed herewith the report of the consultant engaged for the monitoring of the same as Annexure I. Also, the data shall be displayed near the company main gate and also uploaded on its website shortly. The analysis for VOC shall be done from the next report onwards.

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	Namrup Beat Office under Jeypore range of Dibrugarh Division of Forest Dept.	
v.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by 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 Compounds (VOCs) should be carried out.	The data for all the specified constituents have been provided in Annexure I as enclosed. The analysis for VOC shall be done from the next report onwards.
vi.	For further control of fugitive emissions, following steps shall be followed: <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 	Will be complied with.

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	<p>of pump/pipeline based on preventive maintenance.</p> <p>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.</p> <p>5. Cathodic protection shall be provided to the underground solvent storage tanks.</p>	
vii.	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.	Will be complied with.
viii.	Total fresh water requirement from River Dilli shall not exceed 2809 m ³ /day after expansion and prior permission shall be obtained from the Competent Authority.	Will be complied with.
ix.	Industrial effluent generation 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.	Will be complied with.
x.	No effluent shall be discharged outside the premises and 'Zero' effluent discharge shall be followed.	Will be complied with.



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xi.	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Will be complied with.
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 wastewater is flowing out of the operating plants which may have impact on any wildlife under the category of schedule-I fauna.	Will be complied with.
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.	Will be complied with. Presently the mentioned material is disposed off through a vendor.
xiv	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary 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.	Will be complied with.
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.	Will be complied with.



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xvi	All the recommendations made in the risk assessment report shall be satisfactorily implemented.	Will be complied with.
xvii.	The unit shall be make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.	Will be complied with.
xviii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Will be complied with.
xix.	Green belt shall be developed in 9.538 acres of land. Selection of plant species shall be as per the CPCB guidelines.	Will be complied with.
xx.	All the commitments made to the public during the Public Hearing/Public Consultation meeting held on 6 th 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.	Has been complied with.
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	The guideline shall be complied with during the Project execution period.

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	Shillong. Implementation of such program shall be ensured accordingly in a time bound manner.	
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 so that there is no impact on the surrounding environment.	Will be complied with.
B. GENERAL CONDITIONS		
i.	The project authorities must strictly adhere to the stipulations made by the Assam Pollution Control Board	Will be complied with.



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	(APCB), State Government and any other statutory authority.	
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.	Will be complied with.
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.	Will be complied with.
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 levles shall conform to the standards prescribed under EPA Rules,1989 viz. 75 DbA (daytime) and 70 DbA (nighttime)	Will be complied with.
v	A copy of clearance letter shall be sent by the proponent to concerned Panchayat,ZilaParishad/Municipal Corporation,Urban Local Body and the local NGO,if any,from whom suggestions/representations,if any,were received while processing the	Already complied with.

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	proposal. The clearance letter shall also be put on the web site of the company by the proponent.	
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.	Is being complied with.
vii.	The environmental statement for each financial year ending 31 st 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.	Has been complied with.
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	Already complied with.

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	a copy of the same shall be forwarded to the Regional 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 informed through mail and hard copy vide letter no.: APL/Proj/04/242 dt. 12.11.2014.

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

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

Copy to:

1. Member Secretary,
State Pollution Control Board (PCBA), Assam,
Bamunimaidam, Guwahati -21.

Email: membersecretary@pcbassam.org
info@pcbassam.org

2. Executive Engineer,
Regional office, State Pollution Control Board, Assam,
Bairagimath, Dibrugarh.

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Annex I

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

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	30	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

Bivash Mahanta

Checker 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 parameter's tested.

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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			

Checked By: Bivash Mahanta, ENVIROCON

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Recognized By
Pollution Control Board, Assam

Digboi Stores Building, New Market
 Digboi, Assam
 Ph. 03751-264414, 9435008657, 8876028672
 e-mail : envirocon@rediffmail.com
 website : www.envirocon.net.in

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

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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

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