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Government of India
Ministry of Environment and Forests

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MD's Sectt.
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Dated: 19th May 2014

To

Shri Ratul Bordoloi,
Managing Director

M/s Assam Petrochemicals Ltd.,

P.O. Namrup-786623, Village Nampur

Tehsil Naharkatia, District Dibrugarh, Assam

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Subject: 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) at Plot 4, Patta No.7, Dag No.60(kha), Plot-72B-03K-00LS of M/s Assam Petrochemicals Ltd. at village Namrup, Tehsil Naharkatia, District Dibrugarh, Assam - Environmental Clearance - reg.

Sir,

This is with reference to this Ministry's award of Terms of Reference (TOR) vide letter dated 15.03.2012 and your letter dated 12.11.2012 along with project documents including pre-feasibility Report, EIA-EMP Report and subsequent letters dated 10.05.2013, 10.09.2013 seeking environmental clearance on the aforesaid subject.

All the Petrochemical Process Units viz Methanol and Formaldehyde plants are listed at S.N. 5(e) under Category 'A' and are appraised at the Central level.

2. The Ministry of Environment and Forests has examined the application. It is noted that the proposal is for 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) at Plot 4, Patta No.7, Dag No.60(kha), Plot-72B-03K-00LS at village Namrup, Tehsil Naharkatia, District Dibrugarh, Assam by M/s Assam Petrochemicals Ltd. Existing plot area is 84 acres including plant area (30 acres) and township area (54 acres). An additional land of 24 acres is acquired for setting up of petrochemical unit along with power plant. Out of which, 9.538 acres has been earmarked for greenbelt. Total cost of the project is Rs. 1028 crores. Dehing-Patkai Wild life Sanctuary is located at an aerial distance of 5 Km. Jaipur Reserve Forest is located at a distance of 2.5 Km. River Dilli is flowing at a distance of 4 Km. The Office of PCCF (WL) vide letter No, WL/FG.35/Proposal expansion plant of Petrochemicals Ltd. dated 13.05.2013 has after inspection of the project site has recommended the project for EC subject to taking some environmental measures for addressing

leopard-human and elephant-human conflict in and around the project area and for improvement of air quality.

3. The details of the existing and proposed plants are as given below:

S.N.	Unit	Existing capacity	Proposed Additional capacity	Capacity after expansion
1	Methanol Plant	100 TPD	500 TPD	600 TPD
2	Formaldehyde Plant	100 TPD	-	100 TPD
3	Acetic Acid Plant	-	200 TPD	200 TPD
4	Captive Power Plant	-	5 MW	5 MW

Natural gas is the main feed stock for both the products viz. Methanol and Acetic Acid which will be used as raw materials.

4. Adequate stack height will be provided to gas turbine to disperse gases emissions into the atmosphere. Low NO_x burners will be provided with on-line analyzers. Total fresh water requirement for petro-chemical unit and power plant from River Dilli will be increased from 1200 m³/day to 2809 m³/day after expansion. Industrial effluent generation will be increased from 190.8 m³/day to 1443 m³/day after expansion. Industrial effluent will be treated in effluent treatment plant (ETP) comprises primary, secondary and tertiary treatment facilities. Reverse Osmosis rejects will be concentrated in Multi-effect evaporator (MEE). Treated effluent (894 m³/day) will be reused/recycled in process or horticulture purpose. No effluent will be discharged outside the plant premises and zero effluent discharge concept will be maintained. ETP sludge and MEE salt will be sent to treatment storage disposal facilities (TSDF) for hazardous waste. Used oil and spent catalyst will be sold to registered recyclers/re-processor.

5. Public hearings/public consultation was held on 6th September, 2012.

6. The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 12th-13th January, 2012, 10th - 11th June, 2013 and 18th-20th November, 2013 respectively. Project Proponent and the EIA Consultant namely Team Labs and Consultant, have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7. Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:

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 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.

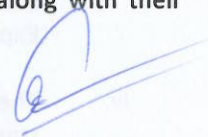
- ii) The project proponent shall prepare a plan for reducing leopard-human and elephant-human conflict in consultation with the Wildlife/Forest Department of the Government of Assam within 10km of the project site.
- iii) Adequate stack height shall be provided to gas turbine as per CPCB/ Assam State Pollution Control Board (ASPCB) guidelines to disperse gases emissions into the atmosphere. Low NOx burners shall be provided with on-line analyzers.
- iv) Ambient air quality data shall be collected as per NAAQES standards notified by the Ministry vide G.S.R. No. 826(E) dated 16th September, 2009. The levels of PM_{2.5}, 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 Department.
- 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.
- vi) For further control of fugitive emissions, following steps shall be followed :
 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 protection shall be provided to the underground solvent storage tanks.
- 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.
- viii) 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.
- ix) Industrial effluent generation shall not exceed 1443 m³/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 m³/day) shall be reused/recycled in process or horticulture purpose. Water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB.

- x) No effluent shall be discharged outside the premises and 'Zero' effluent discharge shall be followed.
- xi) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- 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.
- 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/re-processor.
- 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 fighting facilities in case of emergency.
- 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.
- xvi) All the recommendations made in the risk assessment report shall be satisfactorily implemented.
- xvii) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms
- xviii) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xix) Green belt shall be developed in 9.538 acres of land. Selection of plant species shall be as per the CPCB guidelines.
- 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.
- 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.
- 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.

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.
- 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.
- 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 approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
- 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 (nighttime).
- 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 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.
- 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- 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.
- 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.

8. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
9. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
10. The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. T. Chandini)
Director

Copy to :

1. Principal Secretary, Department of Environment & Forest, Govt. of Assam, Guwahati, Assam.
2. The Chief Conservator of Forests, Regional Office (North-East Zone, Shillong) Upland Road, Laitumhran Shillong-793003.
3. The Chairman, Central Pollution Control Board PariveshBhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Assam Pollution Control Board, Bamunimaidam, Guwahati – 21 Assam.
5. Adviser, IAII(I), Ministry of Environment and Forests, ParyavaranBhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, ParyavaranBhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.