

No. J-11011/139/ 2006– IA II (I)
Government of India
Ministry of Environment & Forests

E mail: plahujarai@yahoo.com
Tele fax: 24363973
Paryavaran Bhawan, C.G.O. Complex,
Lodi Road, New Delhi – 110 003
Dated the June 19, 2006

To

The General Manager-HS&E cum Technical Coordinator & Support
M/s MCC PTA India Corp. Private Limited
22, Camac Street,
Block C, 4th Floor
Kolkata 700016

Sub: Expansion of Purified Terephthalic Acid (PTA) plant by M/s MCC PTA India Corp. Private Limited at village and PO Bhuniaraichak, Tehsil Sutahata in District Purba Midnapore in West Bengal – reg. environmental clearance.

Sir,

This has reference to your letter no. nil dated 29th March, 2006 on the above subject along with Schedule-II application, questionnaire, EIA/EMP /risk assessment report, CD containing the above documents and subsequent communications dated 7.4.2006, 18.4.2006 and 8.5.2006.

2.0. The Ministry of Environment and Forests has examined your application. It is noted that the project is for expansion of Purified Terephthalic Acid (PTA) plant from 4,70,000 to 13,70,000 TPA. by M/s MCC PTA India Corp. Private Limited in District Purba Midnapore in West Bengal. The company is in acquisition of land area of 79.73 ha. Area required for the expansion will be 9.18 ha. Proposed expansion will be carried out within the existing plant premises. No additional land is required. The project does not involve forest land and displacement of people. Water requirement of 42,000 m³/day would be met from the Geonkhali Water System under the Haldia Development Authority (HDA) for which permission has been obtained. Solid waste will be generated in the form of ETP Sludge (34TPD) and process sludge (51TPD) which will be incinerated and ash obtained after incineration will be disposed of in the common secured landfill site at Haldia. Public hearing panel has considered the project in the meeting held on 6.3.2006. The West Bengal Pollution Control Board has granted NOC on 25.3.2006.

3.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 27th January, 1994 as amended subsequently subject to strict compliance of the following specific and general conditions.

-2-

A. SPECIFIC CONDITIONS:

- i. The gaseous emissions (SO_2 , NO_x , HC and VOCs) from the various process units shall conform to the standards prescribed under Environment (Protection) Rules, 1986 or norms stipulated by the SPCB whichever is more stringent. At no time, the emission level shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. Requisite numbers of ambient air quality monitoring stations, [SPM, SO_2 , NO_x and HC] shall be set up in the Petrochemical complex in consultation with SPCB, based on occurrence of maximum ground level concentration and down-wind direction of wind i.e. maximum impact zone. The monitoring network must be decided based on modeling exercise to represent short-term GLCs. Continuous on-line stack monitoring equipment shall be installed for measurement of SO_2 and NO_x . Data on VOCs shall be monitored and submitted to the SPCB / Ministry.
- iii. The company shall take measures for control of fugitive emissions for storage of para-xylene. Measures shall be taken for provision of double mechanical seals to all the pumps handling high vapour pressure materials, sensors for detecting HC/ toxic gas leakages at strategic locations, regular inspection of fixed roof tanks, maintenance of valves and other equipments.
- iv. All new standards/norms that are being proposed by the CPCB for petrochemical plants shall be applicable for the proposed PTA plant. The company shall conform to the proposed process vent standards for organic chemicals including non-VOCs and all possible VOCs i.e. TOCs standard and process vent standards for top priority chemicals. The company shall install online monitors for VOC measurements. The project authorities shall take necessary measures to comply with the above proposed emission norms including monitoring facilities and intimate the same to this Ministry.
- v. M/s MCPI shall adopt Leak Detection And Repair (LDAR) programme for quantification and control of fugitive emissions.
- vi. To mitigate NO_x emissions, the company shall install low NO_x burners for hot oil heater. Adequate stack height for discharge of flue gas emissions from the hot oil heater, the DG set and incinerator shall be provided as per the CPCB guidelines.
- vii. The company shall undertake measures for control of emissions by installation of scrubbers with adequate height as per the CPCB guidelines. All vents from the scrubber units shall be connected to off gas combustion system for complete incineration of off gases.

-3-

- viii. As reflected in the EIA/EMP report, the effluent generation shall not exceed 20832m³/d (8100m³/d of process effluent, 6615 m³/d from DM plant, 120m³/d of domestic effluent and 6000m³/d from other sources). The treated effluent after primary and secondary treatment shall comply with the standards stipulated by WBPCB/Central Pollution Control Board. The treated effluent shall be discharged into the river Hooghly after

conforming the prescribed standards.

- ix. The company shall install incinerator for incineration of ETP and process sludge. The incinerator shall meet CPCB specifications.
- x. Green belt shall be provided to mitigate the effects of fugitive emissions all around the plant in an area of 10 ha in consultation with DFO as per CPCB guidelines.
- xi. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the West Bengal State Pollution Control Board and the State Government.
- ii. No further expansion or modernization in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. At no time, the emissions should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be immediately put out of operation and should not be restarted until the desired efficiency has been achieved.
- iv. All the recommendations made in the EIA /EMP report and risk assessment report should be implemented.
- v. The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- vi. The project authorities must strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 as amended in 2000 for handling of hazardous chemicals etc. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project.

-4-

- vii. The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.
- viii. The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions

stipulated herein. The funds so provided should not be diverted for any other purposes.

- ix. The stipulated conditions will be monitored by the Regional of this Ministry at Bhubaneswar/Central Pollution Control Board/State Pollution Control Board. A six monthly compliance report and the monitored data shall be submitted to them regularly.
 - x. 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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. This should 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.
 - xi. The Project Authorities should 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.
- 4.0. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- 5.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.
- 6.0. The above conditions will 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 Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

(Dr. P. L. Ahujarai)
Director

-5-

Copy to:-

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. The Chairman, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA Sector-III, Salt Lake, Calcutta- 700091.
3. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3 Chandrashekharapur, Bhubaneshwar – 751 023
4. The Secretary, State Department of Environment, Govt. of West Bengal, Kolkata.
5. JS(CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.

7. Guard File.
8. Monitoring File.
9. Record File.

(Dr. P. L. Ahujarai)
Director