

F. No. J-11011/994/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: December 3rd, 2009

To,
The Executive Director
M/s I G Petrochemicals Ltd
Plot no. T-2, Taloja Industrial Area, MIDC,
Taloja-410208, Dist Raigarh,
Maharashtra

E-mail: igpetro.talojapa@gems.vsnl.net.in

Sub: Expansion of Petrochemical unit at MIDC Taloja in District Raigad in Maharashtra by M/s I G Petrochemicals Ltd. - reg. environmental clearance

Sir,

This has reference to your letter no. IGPL/JKS/2009-10/PA-III Dated 06.07.2009 along with EIA/EMP report on the above-mentioned subject seeking environmental clearance under the Environmental Impact Assessment Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s IG Petrochemicals Limited have proposed to increase the manufacturing capacity of existing petrochemical complex. The unit is located at MIDC, Taloja in District Raigad in Maharashtra. It is proposed to set up phthalic anhydride plant with capacity of 53,000 TPA, recovery of 1000 TPA of benzoic acid and generation of 2.5 MW power for its own use and export to State Electricity Board Grid. The phthalic anhydride will be recovered in switch condensers. The existing area of the plant is 20,491 m² and additional area of 2522 m² is proposed for the expansion project. Cost of the project is Rs.148 crores.

3. It is noted that water requirement will increase from 2615m³/d to 4117 m³/d which will be met from the MIDC supply. About 651m³/d of effluent will be generated. The effluent after primary, secondary and tertiary treatment will be discharged to CETP Taloja. Process emissions in the form of HCl and TOC will be controlled through scrubbers. Stack height of 55m is provided for boilers for dispersion of gaseous emissions. Stack height of 31m is provided for heaters and 30m for the DG sets.

4. Hazardous waste generation will be in the form of distillation backends/residue (940 TPA) and will be used as fuel in heater. Spent catalyst and molecular sieve (80 tons/ three years) will be sent back to the manufacturers. Used/ spent oil (20 TPA) will be sold to the CPCB authorized recyclers. Other solid waste generated during plant shut down/maintenance (38 TPA), primary sludge from ETP (18 TPA), spent carbon (6 TPA) and ash from heater will be sent to CHWTSDF. Discarded containers/barrels/liners/used for HW/chemicals (180 nos./yr.) and discarded bags used for hazardous chemicals (7 MTPM) will be washed and re-used. Non-hazardous waste such as biological sludge (25MTPM) will be used for land filling.

5. The Petrochemical based processing units are listed at serial no. 5(e) of schedule of EIA Notification, 2006. Public hearing is not required as per para 7.iii-Stage (3) (b) -public consultation of Environmental Impact Assessment Notification, 2006. The Expert Appraisal Committee-2 (I) considered the project in its 5th meeting held on 12-13th November, 2009 and Committee recommended the proposal for grant of environmental clearance.

6. 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) The Company shall install full-fledged ETP to treat the process effluent and treated effluent after primary, secondary and tertiary treatment and conforming to the prescribed standards shall be sent to CETP for further treatment. The company shall construct a guard pond for treated effluent and shall carry out the bioassay test by collecting the treated effluent into the guard pond before discharging into CETP. The reports shall be submitted to CPCB and Ministry's Regional Office at Bhopal.
- ii) Process emissions in the form of HCl and TOC shall be controlled by installation of scrubbers. The company shall provide the monitoring arrangement with the stack and regular monitoring shall be carried out and reports submitted to the SPCB, CPCB and Ministry's Regional Office at Bhopal. The gaseous emissions from the DG sets shall be dispersed through stack of adequate height as per CPCB/State Pollution Control Board standards.
- iii) The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their 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 the State Pollution Control Board. The pollutant levels namely, SPM, RSPM, SO₂, NO_x & CO (ambient levels as well as stack emissions) shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- iv) Fugitive emissions in the work zone environment, product, raw material storage area shall be regularly monitored. The emissions shall conform to the limits imposed by SPCB.
- v) The company shall explore the possibility of sending the spent carbon and bio sludge to the cement plants or spent carbon should be incinerated.
- vi) The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994 and January, 2000 and Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes. All Transportation of Hazardous Chemicals shall be as per the MVA, 1989.

- vii) The project authority shall obtain the membership of TSDF for disposal of solid and hazardous waste and copy of the same shall be submitted to the Ministry and Ministry's Regional Office at Bhopal. The company shall maintain the valid membership.
- viii) The company shall develop in and area of 35685 sq.ft., as per the CPCB guidelines to mitigate the effect of fugitive emissions. ??
- ix) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- x) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- xi) The company shall comply with the recommendations made in the EIA/EMP and Risk Assessment Report.


B. GENERAL CONDITIONS:

- i. The project authorities shall strictly adhere to the stipulations made by the State Pollution Control Board.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and 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. At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.
- v. The gaseous emissions (NO_x, SO₂ and SPM) and Particulate matter along with RSPM levels from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels 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. Stack monitoring for SO₂, NO_x and SPM shall be carried.
- vi. The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the up wind and downwind direction as well as where maximum ground level concentrations are anticipated.
- vii. 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

- viii. The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.
- ix. The company will undertake all relevant measures for improving the Socio-economic conditions of the surrounding area. CSR activities will be undertaken by involving local villages and administration.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. The project authorities shall earmark adequate funds 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 shall not be diverted for any other purpose.
- xiii. The implementation of the project vis-a-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.
- xiv. A copy of the 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 who suggestions/ representations, if any, were received while processing the proposal.
- xv. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the State Pollution Control Board.
- xvi. 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 SPCB/Committee and may also be seen at Website of the Ministry 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 concerned Regional Office of the Ministry.

- xvii. The 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 start of the project.
7. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
8. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
9. Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.
10. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003/ 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr.P.L. Ahujara)
Director

Copy to:

1. The Secretary, Department of environment and forests, Govt. of Maharashtra.
2. Member Secretary, State Environment Impact Assessment Authority, Maharashtra.
3. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, E - 3 / 240 Arera Colony Bhopal - 462 016.
4. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
5. The Chairman, Maharashtra Pollution Control Board, Kalpataru Points, 3rd & 4th Floor, Opp. Cine Planet, Sion Circle, Sion (E) Mumbai - 400 022.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File.
8. Monitoring File.
9. Record File.

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(Dr. P. L. Ahujara)
Director