

No. J-11011/S1/2000-LA II (I)
Government of India
Ministry of Environment & Forests
I.A. Division

Tel No. 436 3973

Paryavaran Bhawan,
CGO Complex, Lodi Road,
New Delhi - 110 003
January 8, 2001

To

The Jt. Executive President (Works),
M/s Indo Gulf Corporation Ltd. (Unit Birla Copper),
At. & P.O. Dahej, Lakhigam,
Pin - 392 130 District Bharuch,
Gujarat

Subject: Copper Smelter expansion and copper foil plant by M/s Indo Gulf Corporation Limited at Dahej, District Bharuch.

Sir,

This has reference to your letter No. IGCL/TIC/01 dated 21st November, 2000 along with project documents including EIA /EMP, questionnaire and floppy containing all the documents and subsequent clarification / additional information furnished vide your letters dated 18th December, 2000, 13th August, 2001 and 15th October, 2001 on the above mentioned project. The Ministry of Environment & Forests has carefully examined your application. It is noted that expansion proposal is for increase in the capacity of Copper Smelter Plant from 1.0 lakh TPA to 1.5 lakh TPA. Capacity of the Copper foil plant will be 2000 TPA. The Copper smelter plant is based on the Outokumpu flash smelting process. Production of copper foil will be by Electro-deposition process. The land area of the existing unit is 236.0 ha. The proposed expansion is within the existing land area. The project does not involve forest land and displacement of people. Water requirement of 975m³/day will be met from the river Narmada through GIDC. The solid waste will be in the form of granulated slag (6621 TPM) and ETP sludge (1775 TPM) which will be used for construction activity and disposed off in the secured landfill facility respectively. It is also noted that NOC from Gujarat State Pollution Control Board has been obtained on 20th June, 2001. The public hearing panel has considered the project in its meeting held on 27th April, 2001. Total cost of the project is Rs. 126.0 crores.

2. 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 on 04.05.1994 and 10.04.1997 subject to strict compliance of the following specific and general conditions:

A. SPECIFIC CONDITIONS

- (i) All the conditions stipulated by the Ministry while according environmental clearance to the existing project vide its letter No. J-11011/07/94-LA.II (I) dated 14th March, 1995 should be strictly implemented.
- (ii) The ambient air quality data around the plant show a declining trend with respect to all the parameters. Procedure of sampling and analysis may be got checked through

other referral environmental laboratory for confirmation and the data submitted to the Ministry / CPCB / GPCB / R.O. Bhopal for records, within six months.

- (iii) The company should utilize the treated effluent to the maximum extent possible for green belt development. However, additional treated effluent or during the rainy season, effluent could be discharged into the deep sea through HDPE pipeline at a point through multiple diffuser system as recommended by the NIO. The treated effluent should conform to the standards including Bio-Assay test as per the GCLB. The monitoring report should be submitted to the Ministry regularly.
- (iv) The company should also set up a separate online Fish pond using treated effluent to ensure that the quality of treated effluent discharged into the sea does not have any adverse impact on the marine life. The effluent quality at the marine discharge point must also be monitored periodically by an independent agency authorised by CPCB and report of the Independent agency should be submitted to the Ministry's Regional office at Bhopal / CPCB / GSPCB.
- (v) The industry should develop within three months a new secured landfill site for disposal of ETP sludge and the hazardous wastes as per the CPCB guidelines. Authorization under the Hazardous Wastes (Management & Handling) Rules, 2000 from the GPCB should be obtained.
- (vi) Adequate facilities and safety measures including protective clothings for personnel working in the critical areas, e.g., in the anode casting area must be strictly explored. The company should get an occupational health and safety study done through NIOH, Ahmedabad and submit a report to the Ministry within one year. The recommendations of the study must be implemented by the company.
- (vii) Green belt of adequate width and density in 36 ha. of project area in addition to the 40 ha. of area already afforested should be provided to mitigate the effects of fugitive emission all around the plant. The development of green belt along the boundary walls, open space and avenue roads should be as per the CPCB guidelines.

B. GENERAL CONDITIONS

- (i) The project authorities must strictly adhere to the stipulations made by the Gujarat State Pollution Control Board.
- (ii) No further expansion or modifications in the plant should 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 should 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, 1989 as amended in October, 1994 and January, 2000. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained.

- (iv) 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, 1989 as amended in January, 1994 and in January, 2000. Authorization from the State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (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) Occupational health surveillance programme should be undertaken as regular exercise for all the employees, specifically for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre should be strengthened and the medical records of each employees should be maintained separately.
- (vii) The project proponent should have a scheme for social upliftment in the surrounding villages with reference to contribution in road construction, education of Children, festivals, health centres, sanitation facilities, drinking water supply, community awareness and employment to local people whenever and wherever possible both for technical and non-technical jobs.
- (viii) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA and Risk analysis. Report.
- (ix) A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the Environmental Management and monitoring functions.
- (x) The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment & 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 purpose.
- (xi) The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's regional office at Bhopal / State Pollution Control Board / Central Pollution Control Board. A six monthly compliance status report should be submitted to monitoring agencies.
- (xii) The Project Proponent should 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://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 should be forwarded to the Regional office.

(xiii) 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, if any.

3. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

4. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.

5. 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, the Hazardous Wastes (Management and Handling) Rules, 1989 as amended in October, 1994 and in January, 2000 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

P. Anujarai

(Dr. P. L. Anujarai)
Additional Director

Copy to:

1. The Secretary, Department of Environment and Forests, Govt. of Gujarat.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, E - 3 / 240 Arera Colony Bhopal - 462 016.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
4. The Chairman Gujarat Pollution Control Board, Paryavaran Bhavan, Sector 10, A, Gandhi Nagar - 382 043.
5. The Adviser (EI division), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. The Director (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. Anujarai)
Additional Director