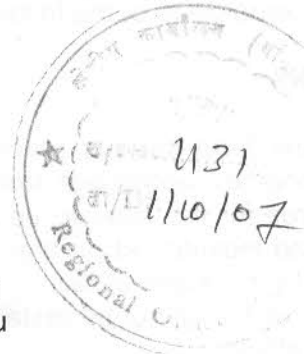


619/TN

F. No. J-11011/24/2006- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi – 110 003

E-mail : [pb.rastogi@nic.in](mailto:pb.rastogi@nic.in)  
Telefax : 011: 2436 7668  
Dated 9<sup>th</sup> August 2007



To,

M/s Sterlite Industries (I) Ltd.  
SIPCOT Industrial Complex  
Madurai By Pass Road, T.V. Puram  
P.O. Tuticorin – 628002, Tamil Nadu

E-mail : [s.chellappa@vedanta.co.in](mailto:s.chellappa@vedanta.co.in) / [ys.manian@vedanta.co.in](mailto:ys.manian@vedanta.co.in)

Fax No. : 0461-2340203

Handwritten signature and date: 29/9/07, JD/S

**Subject : Expansion (De-bottlenecking) of Copper Smelter (900 TPD to 1200 TPD) at Tuticorin, Tamil Nadu by M/s Sterlite Industries (I) Ltd. – Environmental Clearance reg.**

Sir,

This has reference to your communication no. Sil/HSE/MOEF/07/01 dated 2<sup>nd</sup> January, 2007 alongwith application, EIA/EMP and related project documents and subsequent clarifications furnished by you vide your letters dated 29<sup>th</sup> January, 2007 and 19<sup>th</sup> February, 2007 for environmental clearance of the above mentioned project.

2.0 The Ministry of Environment and Forests has examined your application. It is noted that the proposal is for the expansion of Copper Smelter (900 TPD to 1200 TPD) at Tuticorin, Tamil Nadu by M/s Sterlite Industries (I) Ltd. as per details given below :

Name	Quantity (TPD )		
	Existing	De-bottlenecking	Total
<b>Main Products :</b>			
1. Copper Anodes	900	300	1200
2. Copper Cathodes	875	0	874
3. Phosphoric Acid	800	0	800
<b>Intermediate Products :</b>			
1. Anode Slime (refinery)	1.75	0	1.75
<b>By Products:</b>			
1. Sulphuric Acid	3150	1050	4200
2. Hydro fluoro silicic Acid	25	0	25

Total project area is 172.17 ha. and no additional land will be required for the expansion project.

Handwritten notes: "Open a new file", "29/9/07", and a signature.

3.0 'Consent to Establish' has been accorded by the TNPCB vide letter no. T7.TNPCB/22276/RL/TTNIA/2006 dated 2<sup>nd</sup> November, 2006. Total cost of the projects is Rs. 44.00 Crores including the cost of the environmental pollution control measures.

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

**A. SPECIFIC CONDITIONS:**

- i. The gaseous emissions from various process units shall conform to the standards prescribed by the concerned authorities from time to time. The TNPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission levels should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. Electrostatic precipitators (ESP) and scrubbers shall be provided to control gaseous emissions. All the scrubbed SO<sub>2</sub> shall be sent to ETP. On-line analyzers and stack emission monitoring equipments for continuous monitoring of SO<sub>2</sub>, NO<sub>x</sub>, SPM shall be installed and all the pollution control measures shall be inter-locked. The emissions shall conform to the standards prescribed by the Ministry/CPCB/TNPCB which ever is more stringent and data collected shall be submitted regularly to the Ministry / Regional Office at Bangalore and TNPCB.
- iii. All the recommendations made in Charter for Corporate Responsibility for Environment Protection (CREP) shall be strictly followed. As per the action plan submitted to the Ministry, SO<sub>2</sub> emission limit shall be less than 1 kg/ton of H<sub>2</sub>SO<sub>4</sub> produced and acid mist limit of 50 mg/Nm<sup>3</sup> shall be achieved.
- iv. Fugitive dust emissions in the handling area and at various transfer points shall be controlled by providing scrubbers, dust suppression system and ventilation system in work environment and monitored for prevailing contaminants regularly.
- v. ETP cake and scrubber cake shall be stored in secured landfill (SLF) at the site till TSDF in Tamil Nadu is functional. The location and design of the landfill site shall be approved by the TNPCB as per Hazardous Wastes (Management and Handling) Rules, 2003. The ground water quality around the landfill site shall be monitored and data submitted to the Ministry / TNPCB. ESP dust and Lime grit shall be recycled in the smelter. Slag shall be sold to cement plants or used for shot blast applications. Gypsum shall be sold to cement plants and other users. All the used oil and batteries shall be sold to the authorized recyclers/reprocessors.
- vi. Total water requirement shall not exceed 10,050 m<sup>3</sup>/day as per permission accorded by the T. N. Water and Drainage Department. Prior permission of Competent Authority should be obtained for drawl of the water and safeguards suggested by them shall be implemented. All the treated wastewater shall be reused in the smelter plant and 'zero' discharge shall be adopted. No wastewater shall be disposed off outside the premises. Domestic effluent shall be treated in septic tank followed by soak pit.

- vii. Green belt of adequate width and density around the project site shall be developed in 43 ha. out of total 172.17 ha. as per CPCB guidelines in consultation with the DFO.
- viii. All the environmental conditions stipulated by the Ministry for the 5 x 130 MW captive power plant vide letter no. J-11011/82/2003-IAII(I) dated 22<sup>nd</sup> September, 2004 shall be implemented.
- ix. Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.
- x. The company shall develop rainwater structures to harvest the run off water for recharge of ground water in consultation with the Central Ground Water Authority/Board.


**B. GENERAL CONDITIONS :**

- i. The project authorities must strictly adhere to the stipulations made by the Tamil Nadu Pollution Control Board (TNPCB) and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the TNPCB. Regular monitoring shall be carried out for relevant parameters.
- iv. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report.
- v. As proposed in EIA/EMP, Rs. 31.00 Crores earmarked towards environmental protection measures shall be exclusively used to implement the conditions stipulated by the Ministry of Environment and Forests and State Government. A time bound action plan alongwith the implementation schedule to comply with all the conditions stipulated herein shall be submitted to the Ministry's Regional Office at Bangalore. The funds so provided shall not be diverted for any other purpose.
- vi. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore / TNPCB / CPCB. A six monthly compliance status report shall be submitted to the monitoring agencies.
- vii. The Project Proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the TNPCB / Committee and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement shall be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bangalore.
- viii. 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 land development work.

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


6.0. The Ministry reserves the right to stipulate additional conditions if found necessary. The company shall implement these conditions in a time bound manner.

7.0. 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 Waste (Management & Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(Dr. P. B. Rastogi)  
Additional Director

Copy to :

1. The Secretary (Environment) Govt. of Tamil Nadu, Fort St. George, Chennai -560 560, Tamil Nadu.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
3. The Chairman, Tamil Nadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai-600 032, Tamil Nadu.
- ✓ 4. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 7<sup>th</sup> Main Road, 2<sup>nd</sup> Block, Koramangala, Bangalore - 560034, Karnataka.
5. Adviser (IA), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
7. Guard file
8. Monitoring file
9. Record file

  
(Dr. P. B. Rastogi)  
Additional Director