NO J-11011/17/2005-IA-IKI) Sovernment of India Manistry of Environment and Forests

Email: platiuiaral@yahoo.com Tele no. 24363973 Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003 Dated the 3rd August, 2005

To

The General Manager (Environment) Mis Hindustan Zinc Limited Yashad Bhavan, Udaipur 313004 Rajasthan India

Expansion of Lead smelter at village Putholi, Tehall Gangrar in district Chittorgarh in Rejasthan by M/s Hindustan Zinc Limited.

Sir. 🕠

This has reference to your letter No. CLZS/GM/ENV/LEAD05 dated 21st January, 2005 along with application, EIA /EMP and related project documents and subsequent clarifications furnished by you vide your letters dated 28th February, 2005, 7th June, 2005 and letter no. EMU-01966 dated 20.06.2005 for environmental clearance of the above:mentioned project.

The Ministry of Environment and Forests has examined your application. It is noted that the proposal involves expansion of lead smelter plant of 60,000 TPA capacity. The area required for the project is 0.8 ha. which is available within the premises of existing zinc smelter plant. The project does not involve diversion of forest land and displacement of people. The Chittaurgarh Fort is located at a distance of 6.5km from the plant. It is noted that company will adopt environmental friendly Lance seal smelting technology with all stages of smelting in a single; compact and totally closed furnace with high lead and by product recovery, flexibility to use variety of feed materials including secondaries and low water consumption. The heat evolved during exidation of ore will be used in smelting operation. Water requirement of 2592 m3/d will be met from the Gosunda dam. Permission to draw 1500 MCFT of water has been obtained from the Energy Department, Govt. of Rajasthan on 19 November, 1994. The solid waste shall be generated in the form of sleg from the lead smelter furnace (15000MTPA). The slag after granulation will be sold to the cement manufacturing companies and will be used for road construction. NOC from the Rajasthan State Pollution Control Board has been obtained on 26:2.2005. The public hearing panel has recommended the project in the meeting held on 17.11.04. Total cost of the project is Rs. 97.5 crores.

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

A. SPECIFIC COMBINEDINS:

- The gaseous amissions from various process units shall conform to the standards prescribed by the concerned authorities from time to time. The State Board 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 emissions level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency.
- As reflected in the EIA /EMP, existing Double Contact Double Adsorption (DCDA) plant for sulphuric acid recovery from SO2 shall be upgraded by use of high active catalyst and high efficiency plate heat exchangers. The company shall ensure that SO2 emission from the lead smeller plant are taken to existing sulphuric acid plant properly and converted to sulphuric acid. The stack from the sulphuric acid plant shall be provided with on-line stack emission monitoring equipment for continuous monitoring of SO2. As par the recommendations made in Charter for Corporate Responsibility for Environment Protection, SO2 emission limit shall be controlled less than 2kg/tonne of H2SO4 produced and acid mist limit of 50mg/Nm3 shall be achieved by December, 2006.
- The company shall install continuous air quality monitoring stations. One continuous ambient air quality monitoring station shall be set up at Chittorgarh fort to assess the impact of the lead smalter on the fort. Data monitored shall be submitted to the Ministry and CPCB/SPCB once in six months.
- Fugitive emissions, acid mist vapours, fumes and SO2 shall be controlled and work environment monitored for prevailing contaminants regularly. Fugitive dust emissions in the lead concentrate handling area and at various transfer points shall be minimized by provision of dust suppression system. The trucks carrying concentrate shall be fully covered. The Company shall improve overall house keeping by asphalting the internal roads and to reduce the generation of fugitive dust from vehicle movements.
- The company shall install furne extractors and bag filters to control the emissions from all melting and casting units. The emissions shall conform to the prescribed standards of 50mg/Nm3. The particulate emissions from the captive power plant should be controlled by installation of ESP and controlled within the stipulated limits of 50mg/Nm3. The low NOx burners shall be installed to control the NOx emissions:
- vi. As reflected in the EIA /Environmental Management Plan, discharge of process effluent shall not exceed 19 m3/hr. The treated effluent shall conform to the prescribed standards and recycled to maintain the zero discharge. Reverse Osmosls plant shall be installed for desalination and reuse of effluent to achieve zero discharge. The rejects from the RO plant shall be evaporated in a solar evaporation pond to be constructed within smelter premises.

Green belt of adequate width and density in and around the captive power plant shall be developed as per Central Pollution Control Board guidelines in 61.12 ha, of area in addition to 100 has of existing area already brought under green belt. Around the viii. periphery of plant and township canopy pased green belt should be developed.

GENERAL CONDITIONS:

- The project authorities must strictly adhere to the stipulations made by the Rajasthan 13. State Pollution Control Board and the State Government.
 - No expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- Adequate number of ambient air quality-monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM. SO2 and NOx are anticipated in consultation with the Rajasthari State Pollution Control Board Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Lucknow and the State Pollution Control Board/Central Poliution Control Board once in six months.
- Industrial waste water should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31th December, 1983 or as amended form time to time. The treated wastewater should be recycled in the iv. plant as well as utilization for plantation purposes.

wanted must stately comply with the rules and regulations with regard to Board must be obtained for collection, storage, treatment and disposal of hazardous.

The overall noise levels in and around the plant area shall be kept well within the standards (85 dRA) by providing noise control measures including accusing troubles 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 (daytime) and 71) dBA (nighttime).

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The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA / EMP /risk analysis and DMP report. Will.

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The Regional Office of this Ministry at Lucknow/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance them regularly.

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://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 forwarded to the Regional office.

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 commencing the land development work.

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

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

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, 2003, and the Public Liability Insurance Act, 1991 along with their amendments and rules.

(Dr. P. L. Applaral)

Copy to:

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- Secretary, Department of Environment and Forests, Government of Rajasthan, 1)
- Chief Conservator of Forests, Central Region, Ministry of Environment and i) Forests, B-1/72, Sector-A, Aliganj, Lucknow-226020.
- Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office ii) complex, East Arjun Nagar, New Delhi-1100032. Chairman, Rajasthan State Pollution Control Board, 4, Institutional area; Uhalana,
- lii) Doongri, Jaipur.
- JS(CCI-I), Ministry of Environment and Forests ·iv) Director (Monitoring Cell), Ministry of Environment & Forests.
- **Guard File**

Record File.