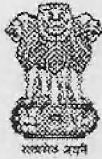


Speed post



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

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

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Telephone: 011: 2436 7076

F. No. J-11011/403/2007-IA-II(I)

Dated : May 19, 2008

To

M/s Hindustan Zinc Ltd.
Sidcul Industrial area,
District Haridwar,
Uttarakhand

Sub: Zinc Ingot (3,65,000 TPA), Zinc dust (7,500 TPA) and Continuous Galvanized Grade (CGG) Zinc Plant (36,500 TPA) at Sidcul, Haridwar, Uttarakhand by M/s Hindustan Zinc Ltd. – Environmental Clearance reg.

Sir,

This has reference to your letter no. HZL/ENV/07 dated 24th November, 2007 alongwith EIA/EMP report seeking environmental clearance for the above project under the EIA Notification, 2006.

2 The Ministry of Environment and Forests has examined the application and noted that the proposal is for the environmental clearance for setting up Zinc Ingot (3,65,000 TPA), Zinc dust (7,500 TPA) and Continuous Galvanized Grade (CGG) Zinc Plant (36,500 TPA) at Sidcul, Haridwar, Uttarakhand by M/s Hindustan Zinc Ltd. The total land of the project is 8.5 acres and located in notified industrial area of Govt. of Uttarakhand / Uttaranchal. Rajaji National Park (elephant sanctuary) is situated at 2 Km. Total cost of the project is Rs. 122.00 Crores.

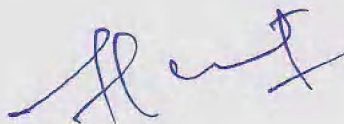
3. SPM will be restricted to $150 \mu\text{g}/\text{m}^3$ by installing bag filter and SO_2 emissions from DG sets by restricting 'Sulphur' content in the LSHS to maximum 1%. Induction furnace used for melting Zn cathode will be pollution free. LPG will be used in burners and launder will be used for flow of hot metal from the furnace to the casting wheel. No emissions are anticipated from these operations. Total water requirement from SIDCUL will be $360 \text{ m}^3/\text{d}$. Liquid effluent will be generated from cooling tower blow down and DM Plant regeneration, which will be reused after neutralization. Zero discharge will be adopted.

4 The project activity is listed at S.N. 5(k) under Category 'B' however considered and appraised at the Central Level in the absence of the SEIAA/SEAC for the State of Uttarakhand.

5 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. Prior permission from the National Board of Wildlife shall be obtained due to location of the Rajaji National Park (elephant sanctuary) at 2 km. and all the recommendations shall be implemented. Copy of permission letter shall be submitted to the Ministry's Regional Office at Lucknow.
- ii. The company shall get registration for recyclers and re-refiners from the CPCB as per the procedure laid down under Rule 19 of the Hazardous Wastes (Management and Handling) Rules, 1989 amended up to date.
- iii. Standards notified for lead recycling unit under the Environment (Protection) Act, 1986 and amended time to time shall be followed.
- iv. The Company shall obtain 'Consent to Establish' under Water (Prevention and Control) Act 1974 under section 25 and Air (Prevention and Control) Act 1981 under section 21 prior to any development at site from SPCB and copy of 'Consent to Establish' shall be submitted to the Ministry's Regional Office at Lucknow.
- v. Secondary fugitive emissions from all the sources shall be controlled within the permissible limits issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.
- vi. Prior 'Permission' for the drawl of 360 m³/day water from the concerned department shall be obtained.
- vii. 'Zero' effluent discharge shall be strictly followed and no wastewater shall be discharged outside the premises.
- viii. The particulate emission shall be less than 50 mg/Nm³. The company shall provide monitoring arrangement with the stack and regular monitoring shall be carried out and report shall be submitted to SPCB, CPCB and Ministry's Regional Office at Lucknow.
- ix. The project authorities shall install bag house followed by stack of minimum 30 m height to control the emission. The company shall effectively operate and

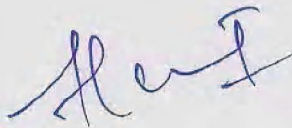


maintain the pollution control system to achieve the emissions within the SPCB/CPCB limits.

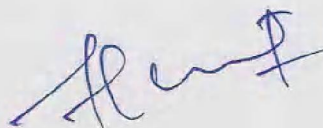
- x. The company shall provide interlocking system with the process and pollution control equipments so that the plant automatically stops in case the pollution load exceeds the prescribed limits. The company shall connect the pollution control equipments to DG set to ensure operation of these equipments during power failure.
- xi. Zinc dross (730 MTPA) shall be the only solid waste which shall be recycled in HZL smelters and/ or sold to registered recyclers. Waste oil (220 KLPA and used oil (15 KLPA) shall also be sold to registered recyclers.
- xii. The solid waste/slag generated from air pollution control equipment and process shall be disposed off and accordance with the provisions of Hazardous Wastes (Handling) Rules, 1989 and amended up to date.
- xiii. As proposed, green belt shall be developed in 33 % area as per CPCB guidelines to mitigate the effect of fugitive emission and improvement of environment in general.

B. GENERAL CONDITIONS:


- i. The project authorities must strictly adhere to the stipulations made by the SPCB, the State Government and any other statutory body.
- ii. The project authorities shall control the emissions from the DG set as per the CPCB guidelines.
- iii. 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.
- iv. Proper house keeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation systems will be laid in accordance with Factories Act. Better house keeping practices shall be adopted for improvement of the environment within the work environment. These include:
 - (a) All material transfer points shall be connected to dust extraction system.
 - (b) Leakages of dust from machines and ducts shall be plugged.
 - (c) Floor shall be cleaned by vacuum cleaner only.
 - (d) Covered feeding mechanism of raw material shall be adopted to avoid exposure of fumes.



- v. Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.
- vi. Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.
- vii. The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.
- viii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- ix. Usage of personnel protective equipments (PPEs) by all employees/ workers shall be ensured.
- x. The company shall undertake eco-development measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the Madhya Pradesh Pollution Control Board within three months of receipt of this letter for approval.
- xi. The company shall undertake rainwater harvesting measures to recharge the ground water in the area.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The adequate financial provisions shall be made in the budget of the project for implementation of the above suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.
- xiv. 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 and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.




- xv. 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).
- xvi. The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.
- xvii. The Project Proponent should 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 SPCB and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement should 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.
- xviii. 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.
6. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
7. The Ministry reserves the right to stipulate additional conditions if found necessary. The company shall implement these conditions in a time bound manner.
8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.
9. 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.


(H.S. Malviya)
Joint Director

Copy to :-

1. Secretary, Department of Environment, Government of Uttarakhand, Dehradun, Uttarakhand.

2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Chairman, Uttranchal Environmental Protection and Pollution Control Board, E-115, Nehru Colony, Dehradun, Uttarakhand.
4. The Chief Conservator of Forests, Regional Office (Central Region), Kendriya Sadan, Sector H, 5th Floor, Aliganj, Lucknow - 226 024, U.P.
5. Adviser IA, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.
7. Guard file.
8. Record file


(H.S. Malviya)
Joint Director