

F. No. J-11011/327/2010-IA-II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
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New Delhi – 110 003
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Tele/fax: 011 – 2436 3973
Dated: 26th April, 2011

To,

The General Manager,
M/s Hindustan Zinc Limited
Projects Division, Yashad Bhawan,
Udaipur, Rajasthan- 313 004

E-mail: d.dhanavel@vedanta.co.in / csr.mehta@vedanta.co.in

Sub: Proposed 4,65,000 TPA Zinc Metal & 1,50,000 TPA Lead Metal Melting & Casting unit at Plot No. 2 Sector 14, SIDCUL (Industrial area), District Pantnagar, Uttarakhand by **M/s Hindustan Zinc Limited- regarding Environmental Clearance**

Sir,

This has reference to your letter no. HZL/Pantnagar/ENV/2010 dated 19.12.2010 along with copies of EIA/EMP reports seeking environmental clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Hindustan Zinc Ltd have proposed for 4,65,000 TPA Zinc Metal & 1,50,000 TPA Lead Metal Melting & Casting unit at SIDCUL (Industrial area), Dist. Pantnagar in Uttarakhand. The land requirement for proposed project is 3.5 ha within the existing Pantnagar Silver Plant situated at SIDCUL, Pantnagar having an area of 10 ha. Out of 10 ha of land area, 3.5 ha of land is earmarked for green belt development. Zinc cathode (4,85,000 TPA), Lead cathode (1, 60,000 TPA) and Aluminum metal (160 TPA) will be used as raw materials. Zinc cathode and Lead cathode will be sourced from HZL smelters. Aluminum will be sourced from open market. The total project cost is Rs. 250 crores. Rs. 12.00 Crores is earmarked for pollution control equipments. Rs. 12.5 crores has been earmarked for CSR activities.

3. To control the particulate emissions within 50 mg/Nm³, bag filters will be installed before letting it out to atmosphere through the stacks of 30 m & 40 m height for zinc and lead melting section respectively. Regular monitoring of stack emissions will be carried. The gaseous emissions from the DG sets will be dispersed through stack of height as per CPCB guidelines.

4. The fresh water requirement of 500m³/day will be met from the ground water source. Wastewater generated will be reused for secondary purposes after adequate treatment. Domestic effluent will be treated in Sewage Treatment Plant. No effluent

will be discharged out side the plant premises and zero discharge will be adopted. Total power requirement of the proposed plant will be 15 MW which will be sourced from state grid/ captive DG sets.

5. No disposable process waste is produced from the proposed project. Zinc and lead dross will be fed as raw material at HZL smelters at other location. ETP cake will be sent to TSDF. The sludge generated from the FGD system, in case of use of HFO as fuel will be sold to authorized recyclers / sent to TSDF. Alternatively, options will be explored to send it to the cement plants. Waste oil and used oil will be sold to registered recyclers.

6. The project activity is listed at S.No. 3(a) under category 'A' of the Schedule of EIA Notification 2006 and appraised at Central level.

7. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 19th meeting held during 22nd - 23rd February, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. No public hearing / consultation is required due to project being located in Notified SIDCUL Industrial Area as per Section (iii), Stage (3), Para (i)(b) of EIA Notification 2006.

8. Based on the information submitted by you, presentation made by you and consultant, Vimta Labs Limited, Hyderabad, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

- i. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. bag filters shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology.
- ii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.
- iii. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.
- iv. The total water requirement shall not exceed 500 KLD. Permission to draw water from the Competent Authority shall be obtained. No effluent shall be discharged and 'zero' discharge should be adopted.
- v. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms

prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB.

- vi. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.
- vii. Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB within 3 months of issue of environment clearance letter.
- viii. As proposed, green belt shall be developed in 33 % of the plant area. Selection of plant species should be as per the CPCB guidelines in consultation with the DFO.
- ix. At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment (ESC) and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.
- x. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) 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. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM₁₀, SO₂ and NO_x are anticipated in consultation with the SPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB / CPCB once in six months.

- iv. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- v. The overall noise levels in and around the plant area shall 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 (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- viii. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. The requisite funds shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- x. A copy of 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 whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.
- xi. The project proponent shall upload the status of compliance of the stipulated environment 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 the MOEF, the respective Zonal Office of CPCB and the **SPCB**. The criteria pollutant levels namely; RSPM, SO₂, NO_x and Lead (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

- xii. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF at Lucknow, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow / CPCB / **SPCB** shall monitor the stipulated conditions.
 - xiii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
 - xiv. 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 and may also be seen at Website of the Ministry of Environment and Forests 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 Regional office at Lucknow.
 - xi. 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.
9. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
10. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
11. The above conditions shall 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 Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.


(Dr. P.L. Ahujara)
Scientist 'F'

Copy to:

1. The Secretary, Department of Environment, Government of Uttarakhand, Dehradun, Uttarakhand.
2. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 110032.
3. The Chairman, Uttarakhand Environmental Protection and Pollution Control Board, E-115, Nehru Colony, Haridwar Road, Dehradun, Uttarakhand.
4. The Chief Conservator of Forests (C), Ministry of Environment and Forests, Regional Office (Central Region), Kendriya Bhawan, 5th Floor, Sector - H, Aliganj, Lucknow.
5. Guard file / Record file.

(Dr. P.L. Ahujarai)
Scientist 'F'