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Env. clear

By Speed Post

No.J-13011/79/2007-IA.II(T)
Government of India
Ministry of Environment & Forests

Prayavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003

Dated: 20th Oct, 2008

To

The General Manager (EOHS)
Hindustan Zinc Limited
Yashad Bhawan
Udaipur- 313 004

Subject: 90 MW Coal based Captive Power Plant at Zawar, District Udaipur, Rajasthan
by M/s Hindustan Zinc Ltd - Change in environmental clearance-
regarding.

Sir,

The undersigned is directed to refer your communication no. HZL/Env/08 dated 16.2.2008 on the subject mentioned above. Subsequent information furnished vide letter dated 1.8.2008 and 25.9.2008 have also been considered.

The Ministry of Environment and Forests here by amends the conditions no. 3 (ii) and 3 (xv) contained in this Ministry's letter of even no. dated 5th Feb, 2008 to read as under:-

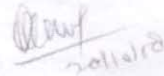
Condition no. 3 (ii) - "Blended coal having sulphur content up to 1.5% and ash content up to 18% shall be used as fuel".

Condition no. 3(xv) - "Dry fly ash collection system shall be provided. 100% fly ash utilization shall be ensured from day one. Bottom ash may be disposed in the existing tailing pond. The tailing pond, after it is filled, shall be covered with a one meter thick layer of clay and reclaimed by plantation."

3. All other conditions contained in this Ministry's earlier letter of even no. dated 5th Feb, 2008 shall remain unchanged.

This issues with the approval of the Competent Authority.

Yours faithfully;



(OM PRAKASH)
DEPUTY DIRECTOR

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Secretary, Deptt. of Forests & Environment, Government of Rajasthan, Secretariat, Jaipur.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Regional Office(CZ), Kendriya Bhandar , 5th Floor ,Sector-H, Aliganj, Lucknow-226 020, Uttar Pradesh.
7. Director (EI), MOEF.
8. Guard file.
9. Monitoring file.

(OM PRAKASH)
DEPUTY DIRECTOR

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No.J-13011/79/2007-IA.II(T)
Government of India
Ministry of Environment & Forests

Prayavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110-003.

Dated: 5th February, 2008

To

M/s Hindustan Zinc Limited
Yashad Bhawan,
Udaipur- 313 004
Rajasthan.

Sub: 90 MW Coal based Captive Power Plant at Zawar, District Udaipur, Rajasthan by M/s Hindustan Zinc Ltd – Environmental Clearance regarding.

The undersigned is directed to refer your communication no. HZL/Env/07 dated 29.11.2007 on the subject mentioned above.

2. The proposal is for grant of environmental clearance under EIA Notification, 2006 for setting up of a 90 MW coal based captive thermal power project at Zawar. The land requirement is estimated as 10 ha, which is already available with the company. The water requirement is 6,800 m³/day, which will be obtained from Tidi Dam. Imported coal will be used as fuel and the requirement will be 800 TPD. No national park and wildlife sanctuary is reported within 10km radius of the project boundary however, two reserve forests fall within 2.6 km radius. Public hearing of the project was held on 18.8.2007. Capital cost of the project is Rs 285.00 crores, which includes Rs 14.40 crores for environmental protection measures.

3. The proposal has been considered and Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) The land requirement shall be restricted to 10 ha for all the activities/facilities of the power project.

- (ii) Ash and sulphur content in coal to be used as fuel shall not exceed 12% and 1.5% respectively.
- (iii) The height of the stack shall be as per the standards prescribed under the Environment (Protection) Act, 1986 in this regard or 165 m, whichever is more with continuous online monitoring system. The exit velocity of the flue shall not be less than 19.37 m/sec.
- (iv) High efficiency Electrostatic Precipitators (ESPs) of not less than 99.87% efficiency shall be installed to limit particulate emission to 100 mg/Nm^3 . It shall also be ensured that the AAQ in the Reserved Forests downwind of the power plant does not exceed the prescribed norms.
- (v) It shall be ensured that the movement of coal is made through covered conveyors only.
- (vi) Low NOx burners shall be installed to control NOx
- (vii) Dust extraction and dust suppression system and water sprinklers shall be provided for controlling fugitive dust during coal transportation, in coal storage & handling area and other vulnerable areas of the plant.
- (viii) Water requirement shall not exceed $6800 \text{ m}^3/\text{day}$ which will be met from Tidi Dam. No ground water shall be extracted for any activity of this project including during construction phase.
- (ix) It shall be ensured that the project site is at least 500 m away from HFL of Tidi Dam.
- (x) COC of not less than 5 shall be adopted.
- (xi) Closed Circuit Cooling System with cooling towers shall be installed.
- (xii) Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. No effluents shall be discharged outside the project boundary.
- (xiii) Rainwater harvesting shall be practiced. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/ State Ground Water Board and a copy of the same shall be submitted within three months to this Ministry.

- (xiv) Leq of Noise level shall be limited to 75 dBA and regular maintenance of equipments should be undertaken. For people working in high noise areas, personal protection devices should be provided.
- (xv) Dry fly ash collection system shall be provided. 100% fly ash utilization shall be ensured from day one. Bottom ash may be disposed in the ash pond.
- (xvi) Conservation measures for schedule-I animals, as per Wildlife (Protection) Act, 1972, found in the study area shall be taken up on priority before commissioning the project in consultation with the State Forests and Wildlife Department.
- (xvii) A greenbelt shall be developed with local species around the plant boundary with tree density of 1500-2000 trees per ha covering at least 3.6 ha area.
- (xviii) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (xix) Regular monitoring of the ambient air quality shall be carried out in and around the power plant and records maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with the State Pollution Control Board. Periodic reports shall be submitted to the Regional Office of this Ministry at Lucknow
- (xx) 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 within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of 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>
- (xxi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxii) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry, the Regional Office, and the CPCB/SPCB.
- (xxiii) Regional Office of the Ministry of Environment & Forests located at Lucknow will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.

(xxiv) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure shall be reported to the Ministry.

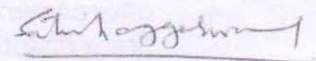
(xxv) Full cooperation shall be extended to the Scientists/Officers from the Ministry/ Regional Office of the Ministry at Lucknow /the CPCB/the SPCB who would be monitoring the compliance of environmental status.

4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.

5. The environmental clearance accorded shall be valid for a period of 5 years to start of production operation by the power plant.

6. In case of any deviation or alteration in the project proposed from that submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

7. The above stipulations shall be enforced along with others as under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991.


(Dr. S.K. AGGARWAL)
Director

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Secretary, Deptt. of Forests & Environment, Government of Rajasthan, Secretariat, Jaipur.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur - with a request to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.

5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Regional Office (CZ), Kendriya Bhandar, 5th Floor, Sector-H, Aliganj, Lucknow-226 020, Uttar Pradesh.
7. Director (EI), MOEF.
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(Dr. S.K. AGGARWAL)
DIRECTOR