

Pyro EC

ANNEX - 6

भारत सरकार

पर्यावरण विभाग

Government of India
Department of Environment
(Paryavarana Vibhag)

No. J-11013/29/82-221
M. Parabrahmam
Principal Scientific Officer

Telephone No.

Telegram : PARYAVARAN
NEW DELHI

Bikaner House,
Shahjahan Road,
New Delhi-110011

03.6.1983

To

The Secretary,
Department of Mines,
Shastri Bhavan, New Delhi.

Sub:

Concurrence for the site proposed for locating
a Lead-Zinc Smelter in Rajasthan.

Dear Sir,

I am directed to communicate the concurrence of
the Department of Environment for location of a Lead-Zinc
Smelter inclusive of captive power plant (90 MW capacity)
at the proposed plant site at Chandoria near Chittorgarh
(Rajasthan).

The concurrence to the above site is subject to
the terms and conditions/recommendations made by the Environ-
mental Appraisal Committee for Industries (a copy of which
is enclosed herewith for information and necessary action).

Yours faithfully,

(M. Parabrahmam)
PRINCIPAL SCIENTIFIC OFFICER

Copy to Shri Chairman, Hindustan Zinc Limited, 6, New
Fatehpura, Udaipur-313001. (Rajasthan).

(M. Parabrahmam) 3/6/83
PRINCIPAL SCIENTIFIC OFFICER

cc: As Stated

CONDITIONS STIPULATED BY DEPARTMENT OF ENVIRONMENT
WITH REGARD TO THE LOCATION OF LEAD-ZINC SMELTER
INCLUDING A CAPTIVE POWER PLANT OF 90MU CAPACITY
AT CHANDERIA, NEAR CHITTORGARH, RAJASTHAN.

1. Transportation of concentrates from mines to the smelter site should be done in containers or closed trucks to minimise/avoid the entry of metals into the environment through spillages, carry over, pilferage. The trucks used should be washed and cleaned at the centralised place. HZL should look into this aspect and make proper arrangements. The washing should be properly treated and disposed.
2. Spillages and fugitive dust emissions at loading and unloading points should be kept to minimum and for this purpose water spray should be adopted.
3. The levels of lead, zinc, Cd in the working environment should always be kept within stipulated/well below the standards laid down. If standards in our country are not available, standards laid down in US/Canada should be adopted.
4. The local ventilation in all workplaces should be designed in such a way to have a suitable draft circulations.
5. The height and design of the stacks should be such that Ground Level Concentrations of the gaseous pollutants should be within the stipulated standards of state/Central Board.
6. Location & height of the stacks on buildings should be such that the turbulence will be on beside of the buildings. The local meteorological conditions should be taken into consideration for this purpose.
7. The HZL authorities should make arrangements for regular monitoring of combustion gases, particulate matter and concentration of heavy metals in the particulates size, distribution and deposition of particles on similar type of plants (e.g. Visakhapatnam) in consultation with experts with in this field to have an idea and base information. Based on this suitable measures can be adopted and reports should be sent to State/Central Board/Dept. of Environment
8. The liquid effluents emanating from various process operations should be recycled to the maximum possible extent. The effluents should be subjected to rigorous physico-chemical or other suitable treatment methods to bring down the pollutant concentrations well below the standards laid down by State/Central Board.
9. The waste treatment plant operation should be watched at Senior Management Level and regular reports on its performance and effluent quality should be submitted to State/Central authority.

10. The two sludge lagoons should be made impervious to avoid pollution of ground water.
11. Water quality of river and ground water should be collected at regular intervals to form as the base line data wells in the nearby areas should be monitored from now onwards and later also.
12. The effluent should be used on land to the maximum extent for social forestry purposes and should be a model for others in that area. HZL authorities should explore the possibility of adding treated wastes from township to factory wastes to enhance their utility.
13. State authorities be requested to plant trees in the vicinity and surrounding the monuments to enhance the protection and to reduce the pre wind/sand erosion of monuments.
14. Rigorous and stringent measures for maintaining the various processes and control equipment in the plant at the highest possible standards should be adopted by HZL. If there is failure of any control equipment those units should not be operated except in emergencies.
15. An Environmental Management Plan stipulating various conditions and requirements of operation, maintenance and monitoring should be drawn up. Various levels in the Organisation(s) should be trained to adopt the plans.
16. Contingency and disaster plans should be ~~dropped~~ ^{revised} drafted for adoption.
17. Suitable environmental management and Monitoring Cell should be created with suitably qualified personnel of various disciplines to undertake the various functions. They should be directly reporting to the head of the Organisation.
18. Suitable programmes should be organised within the Organisation apprise workers, staff and people in the surroundings regarding value and necessity of good housekeeping and proper environmental management for the welfare of all. Concurrence for the site could be accorded with the above stipulations.