



State Expert Appraisal Committee, Punjab
Ministry of Environment and Forests, Government of India

O/O Punjab Pollution Control Board,
Vatavaran Bhawan, Nabha Road,
Patiala – 147 001
Telefax:- 0175-2215802

No. SEAC/172/32184

Dated 1/10/2009

Speed Post

To

M/s Greenfield Metals Ventures (India) Inc.,
Mansa Khurd – Khiala Road,
Vill. Mansa Khurd, Distt. Mansa.

Sub: Application for grant of environmental clearance to set up an unit for the manufacture of Aluminum Alloy, Brass Metal, Lead Ingots and Brass Ash at Mansa Khurd – Khiala Road, Vill. Mansa Khurd, Distt. Mansa by M/s Greenfield Metals Ventures (India) Inc.

This has reference to your application for grant of environmental clearance for establishment of a unit of Lead Smelting for the manufacture of Lead Ingots @ 10 T/day and for the manufacture of Aluminum Alloys @ 10 T/day, Brass Metal @ 5 T/day and Brass Ash @ 5 T/day at Mansa Khurd – Khiala Road, Vill. Mansa Khurd, Distt. Mansa. The case was considered in the 28th meeting of State Expert Appraisal Committee held on 5/9/2009.

During discussion in the matter, the Committee suggested that the following points shall also be taken into account while going in for Rapid EIA Study :

1. The industry shall get the land use changed from the Competent Authority and submit the same to the Committee.
2. The raw materials should be stored properly in a separate shed or rooms and moreover, the batteries should not be stored in an open area.
3. There will be a separate storage area for the storage of spent acid (if any).
4. The entire plot area of the industry should be made pucca.

5. No rain water harvesting system shall be allowed due to toxic nature of lead emissions as there is every possibility of escaping of emissions during manufacturing activities. The rain water collected should be recycled after physico chemical treatment.
6. The training of staff should be made for fire fighting arrangements.
7. The industry shall submit ownership of land / rent deed.
8. The industry shall submit analysis report of ambient air, ground water and noise levels from NABL accredited laboratories.

During meeting, the Committee members observed that the project proponent had provided adequate and satisfactory clarifications and decided to categorize the project into category B-1, with Terms of Reference for Rapid Environmental Impact Assessment Study of the proposed project as per following conditions :

1. The study area should cover an area of 10 km. radius around the proposed site.
2. Land use of the study area as well as the project area shall be given.
3. Location of any National Park, Sanctuary, Elephant / Tiger Reserve (existing as well as proposed), eco-sensitive area, interstate boundary, migratory routes, if any, within 10 km. of the project site shall be specified and marked on the map.
4. The industry shall get the land use changed from the Competent Authority and submit the same to the Committee.
5. One season site-specific meteorological data (except monsoon) shall be provided.
6. One complete season Ambient Air Quality (AAQ) data from the NABL accredited lab alongwith the copies of the test report (except monsoon) to be given alongwith the dates of monitoring. The parameters to be covered shall include SPM, RSPM, Lead, SO₂ and NO_x. Monitoring shall be carried out for at least 6 different locations all around the project within 10 km. radius. The location of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind

direction, population zone and sensitive receptors including reserved forests. There should be at least one monitoring station in the upwind direction.

7. Impact of the project on the AAQ of the area, details of the model used and the input data used for modelling should also be provided. The air quality contours may be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any. The wind roses should also be shown on this map.
8. Assessment of quantity of fuel required, its source and mode of transportation.
9. Source of water and its availability.
10. Characteristics and quantum of lead emissions to be generated from the process and details of pollution control measures to be taken.
11. Occupational safety aspects should be studied and brought out clearly in the EIA study report.
12. Details of the slag to be generated from the process; its characteristics and measures for safe handling / disposal of slag.
13. Details of quantity of rainwater including its pre-treatment method and its recycle options.
14. Details of green belt i.e. land with not less than 1000 trees per hectare giving details of species, width of plantation, planning schedule etc.
15. Fuel analysis from NABL accredited laboratory with copies of the test report
16. Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.
17. Environment Management Plan (EMP) to mitigate the adverse impacts due to the project along with item-wise cost of its implementation.
18. Risk assessment to be undertaken. Based on the same, proposed safeguard measures should be provided.

19. Any litigation pending against the project and / or any direction / order passed by any Court of Law against the project, if so, details thereof.
20. Process flow sheet diagram indicating material and energy balance data on one day basis.
21. Impact of lead contamination in environment i.e. existing and likely increase after commissioning of the project.
22. A detailed environmental protection budget would also be presented and earmarked.

The source of getting secondary data, wherever applicable, should be intimated alongwith its reference. Generic structure of Environment Impact Assessment Document, given in Appendix III of EIA Notification, 2006 shall be followed in preparation of Rapid Environmental Impact Assessment report.

Besides the above, the following general points / guidelines will also be followed:

- a) The spent acid (if any) to be generated during the process of breaking lead acid batteries will be sent to the manufacturers of ferrous sulphate and the industry shall sign MoU with them, before the start of its manufacturing activities.

OR

- b) The project proponent shall either sent the spent acid (if any) to be generated during breaking of lead acid batteries, to common hazardous waste disposal facility at Vill. Nimbua, Tehsil Dera Bassi for treatment or will be treated in the effluent treatment plant to be installed by the project proponent. The effluent treatment plant sludge alongwith slag generated from the process will also be sent to common hazardous waste disposal facility at Vill. Nimbua, Tehsil Dera Bassi developed by M/s Nimbua Green Field Ltd.
- c) All documents to be properly referenced with index, page numbers and continuous page numbering. A uniform system of units (SI) to be used while reporting data.

- d) Where data is presented in the report especially in table, the period in which the data was collected and the source should invariably be indicated.
- e) The list of abbreviations used in preparing the report should be given in a separate index.
- f) The used battery shell should be stored properly and there should be no open storage of any material.
- g) The entire plot area of the industry should be made pucca.
- h) No rain water harvesting system shall be allowed due to toxic nature of lead emissions as there is every possibility of escaping of emissions / fumes and depositing on the roofs during manufacturing activities. The rain water collected should be recycled after physico chemical treatment.
- i) The training of staff should be made for fire fighting arrangements.
- j) That industry shall comply with section 94 of Environment Protection Rules, 1986 regarding noise limits for generator sets run with diesel as published by Central Pollution Control Board.

The industry should prepare draft rapid EIA / EMP Report for its project based on above Terms of Reference and apply to the Member Secretary, Punjab Pollution Control Board for conducting public hearing as per the provisions of EIA Notification, 2006 on submitting EIA / EMP / Executive Summary Report prepared by the industry as per TORs.

After completing the process of public hearing / public consultation, the industry should submit final EIA / EMP to the State Expert Appraisal Committee after incorporating all the issues raised during public hearing / public consultation for Appraisal of its project.

(Malvinder Singh)
Secretary (SEAC)

Dated

Endst. No. _____

A copy of the above is forwarded to the following for information and necessary action :-

1. The Secretary to Govt. of India, Ministry of Environment & Forests, Govt. of India, CGO Complex, Lodhi Road, New Delhi.
2. The Director, Northern Regional Office, Ministry of Environment & Forests, Bays No. 24-25, Sector 31-A, Dakshin Marg, Chandigarh.
3. The Member Secretary, State Environment Impact Assessment Authority, O/o Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
4. The Member Secretary, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala.
5. The Senior Environmental Engineer (Computer), Punjab Pollution Control Board, Head Office, Patiala. He is requested to display the approved Terms of Reference given to the industry on the website of State Environment Impact Assessment Authority.

(Malvinder Singh)
Secretary (SEAC)