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**State Level Environment Impact Assessment Authority,
Jharkhand.**

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Letter No. 297

Ranchi, Date: 5/3/2014

To: Mr. Avijit Ghosh,
Director (Mining),
M/s Hindustan Copper Ltd.
Tamara Bhavan , 1, Ashutosh Choudhury Avenue,
Kolkata, West Bengal, Pin -700019.

Sub.: Proposed Expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA of M/s Hindustan Copper Limited at Village - Badia, Block - Mosabani District, East Singhbhum, Jharkhand. - Prescribing of TOR- Regarding. (File No.EC/ SEIAA / 2013-14/25/2013)

Ref: Your application & Letter dated: 01-10-2013.

Sir,

Reference is invited to your letter along with the application in the prescribed format (Form-I) and a copy of the pre-feasibility report to prescribe the TORs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project.

The Project is for expansion of Mosabani Copper Ore Concentration Plant from 0.612 MTPA to 0.9 MTPA which is spread over an area of 38.45 Ha. The original application was submitted to EAC of Mining Projects vide letter no HCL/HO/EIA/EMP/MSB CONC/ MoEF/2012 dated 3rd October 2012 which has been forwarded to SEIAA for consideration at State Level. The salient details of the Project are as follows:

1. Plant started operations in 1978
2. Plant Processing Capacity of Copper Ore
 - Prior to 1994 (Maximum) 8,88,255 TPA (1988 – 89)
 - After 1994 (Maximum) 7,78,306 TPA (1996 – 97)
 - Present (Existing) 6,12,000 TPA
 - Proposed 9,00,000 TPA
3. Production of Concentrate
 - Existing 23,000 TPA
 - Proposed 33,800 TPA
4. Method of work / process Crushing, Grinding followed by Froth Floatation
5. Waste Generation (Tailings) 8,66,200 TPA

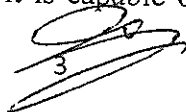
SEIAA, Jharkhand has approved the TORs suggested by SEAC in its meeting held on 22.02.2013.

After detailed deliberations, the Committee prescribed ^{the} following TORs for undertaking detailed EIA/EMP study:

1. Executive summary of the project.
2. Photographs of the proposed plant area.
3. A line diagram/flow sheet for the process and EMP

4. Outcome of Environmental Audit and the suggested remedial measures are to be included in the Report.
5. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
6. Does the Environment Policy prescribe for standard operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
7. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
8. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA report.
9. All corner coordinates of the project area superimposed on toposheet should be provided.
10. Details of the technology and process involved in the project may be furnished.
11. The study area will comprise of 10 km zone around the project area and the data contained in the EIA such as waste generation etc. should be for the life of the project.
12. Land use of the study area delineating forest area, agricultural land, grazing land, waste land, built up area should be provided.
13. The land requirement should be optimized and furnished.
14. Land use plan of the project area should be provided. This should encompass pre-operational, operational and post operational phases. Present land use should be prepared based on satellite imagery. High-resolution satellite image data having 1m-5m spatial resolution like quickbird, Ikonos, IRS P-6 pan sharpened etc. for the 10Km radius area from proposed site. The same should be used for land used/land-cover mapping of the area.
15. Detailed material balance to be provided
16. Location of the proposed plant w.r.t. the source of raw material and mode of transportations of the ore from mines to the beneficiation plant, and outbound movement of the products should be provided. Steps proposed to be taken to protect the ore from getting air borne to be given.
17. A list of industries within 10 km radius of the plant area should be included in the EIA / EMP Report.
18. Action plan for solid / hazardous waste generation, storage, utilization and disposal from all the sources should also be included.
19. Details of the solid waste to be generated and its management. Adequacy of the tailing pond for the life of the beneficiation plant should be provided with supporting data and documentation. Design and capacity of tailing pond should be such as to guard against overflow from the tailing pond during heavy rainfall. Estimation of the tailings and Management and disposal of tailings and closure plan of the tailing pond after the project is over, should be provided.
20. Proposed treatment of runoff from the tailings pond should be provided. The pit where water is collected has to be made pucca. The water collected has to be analysed and reused in the plant.
21. Scheme for lining of existing tailings pond (4 in number) should be included in the Report.

22. Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife corridors, Tiger/Elephant reserves (existing as well as proposed), if any, within 10 km of the project should be clearly indicated. Necessary clearance, if any, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above should be obtained from the State Wildlife Department/ Chief Wildlife Warden under the Wildlife (Protection) Act, 1972 and copy furnished.
23. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the project) shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on field survey clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
24. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM 2.5 & PM 10, SO₂ and NO_x), water quality, noise level, soil and flora and fauna. Site-specific meteorological data should also be collected. The location of the monitoring stations should be justified. Date wise collected baseline AAQ data should form part of EIA and EMP report. There should be at least one monitoring station within 500 m of the plant in the pre-dominant downwind direction.
25. Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
26. Biological as well as health impact of fines and other dust generated in the plant should be studied. The proposed mitigation measures with EMP should also be provided.
27. The water requirement for the project, its availability and source to be furnished. A detailed water balance should also be provided. Fresh water requirement for the project should be indicated.
28. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
29. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand / Central Ground water Board.
30. Pretreatment of raw water, treatment plant for waste water should be described in detail.
31. Details of water conservation measures proposed to be adopted in the project should be furnished. Details of water management including diversion ditches, settling pond etc. should be provided.
32. Ground water monitoring minimum at 8 locations and near solid waste dump / tailings pond , Geological features and Geo-hydrological status of the study area are essential as also.
33. Impact of the project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
34. Impact on local transport infrastructure due to the project should be evaluated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) and whether it is capable of handling the increased load should be



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estimated. Arrangement for improving the infrastructure, if contemplated including action to be taken by other agencies such as State Government, if any, should be covered.

35. An action plan to control and monitor secondary fugitive emissions from all the sources as per the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30th May, 2008.
36. Details of the infrastructure facilities to be provided for the workers may be indicated.
37. Details regarding expected Occupational & Safety Hazards. Protective measures for Occupational Safety & Health hazards so that such exposure can be kept within permissible exposure level so as to protect health of workers. Health of the workers with special reference to Occupational Health. Plan of exposure specific health status evaluation of workers; pre placement and periodical health status of workers; plan of evaluation of health of workers by pre designed format, chest x ray, Audiometry, Spirometry Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations and plan of monthly and yearly report of the health status of workers with special reference to Occupational Health and Safety.
38. Action plan for the green belt development plan in 33 % area should be included. The species selected should be able to thrive on low nutrient soil. They should be able to adapt to local conditions and should be resistant to drought and extreme temperatures. PP should take up this activity immediately (since land has already been procured) and the details of plantation done should be given in EIA Report. The details of plantation already done should be given.
39. Public health implication of the project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocation.
40. Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimension should be given.
41. R&R plan / compensation details for the project affected people, if any, be provided.
42. Detailed environmental management plan to mitigate the environmental impacts due to the project should be prepared and furnished.
43. Risk assessment and disaster management plan should inter-alia include breach of tailing pond, if any, pipeline failure and over flow from the tailing pond etc., if any, proposed in the project.
44. Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
45. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage clearly showing the land features of the adjoining area.
46. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be included. Socio-economic development activities need to be elaborated upon.
47. Total capital cost and recurring cost/annum for environmental pollution control measures should also be included.
48. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the project should be given.

After preparing the draft EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned issues, the public hearing will be conducted

and necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006 will be taken.

Besides the above, the below mentioned general points should also be followed:-

- a) A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b) All documents may be properly referenced with index and continuous page numbering.
- c) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- d) Where the documents provided are in a language other than English, an English translation should be provided.
- e) All statutory clearances / approvals / NOC shall be obtained for the project and included in the EIA Report.
- f) While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF vide O.M. No. J-11013 /41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of the Ministry should also be followed.
- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the F.R for securing the TOR) should be brought to the attention of SEIAA, Jharkhand with reasons for such changes and permission should be sought, as the TOR may also have to be altered.

The prescribed TORs would be valid for a period of two years for submission of the EIA / EMP reports, as per the O.M. No. J-11013/41/2006-IA.II(I) dated 22.3.2010.

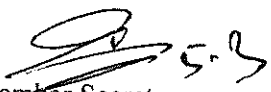
Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No. 297

Dated: 5/3/2014 .

Copy to:

1. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
- ✓ 2. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.


Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.
