

By Speed Post

No. J-11015/117/2009-IA.II(M)
Government of India
Ministry of Environment & Forests

Paryavaran Bhavan,
C.G.O. Complex, Lodi Road,
New Delhi-110003.
Telefax. 2436 2434

Dated the 18th January, 2010

To

M/s Devkabai Velji
Main Road, At/P.O. Barajamda,
District Singhbhum (West),
Jharkhand - 833 221.

Sub: Ajitaburu Iron & Manganese Ore Mines of M/s Devkabai Velji, P.O Barajamda, District West Singhbhum, Jharkhand - Prescribing of TOR - Regarding.

Reference is invited to your letter no. MoEF/EC/09 dated 03.11.2009 along with the application in the prescribed format (Form-I) and a copy of Mine Plan for prescribing Terms of Reference (TOR) 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.

2. The proposal is for enhancement of production of manganese ore from 4275 TPA to 59,500 TPA. Earlier, environmental clearance was granted on 16.1.2009 for renewal of mine lease and production of 6,00,000 TPA of iron ore and 4275 TPA of manganese ore. The mine lease area is 46.62 ha, which is a forestland.

3. Based on the information contained in the documents submitted and the presentation made before the Expert Appraisal Committee (EAC) for mining projects during its Meeting held on December 21-22, 2009, the following TORs are prescribed:-

- (i) Year-wise production details since 1994 onwards and clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification, 1994 coming into force w.r.t. the highest production achieved prior to 1994.

- (ii) All documents including approved mine plan, EIA and public hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management and mining technology.
- (iii) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- (iv) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary and national park, migratory routes of fauna, water bodies, human settlements and other ecological features.
- (v) Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases.
- (vi) Status of forestry clearance. A copy of the proposal submitted for forestry clearance should also be furnished.
- (vii) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant Reserves (existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated. A location map duly authenticated by Chief Wildlife Warden should be provided in this regard. 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.
- (viii) A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] 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.
- (ix) R&R plan / compensation details for the project affected people. While preparing the R&R plan, the National Rehabilitation & Resettlement Policy should be kept in view.
- (x) Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM₁₀, 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. The mineralogical composition of PM₁₀ particularly for free silica should be given. The already collected data during April to June, 2009 may be utilized for preparing the EIA report provided it satisfies the monitoring protocol.
- (xi) Air quality modelling 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 modelling 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.
- (xii) 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 also be indicated.
 - (xiii) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
 - (xiv) Details of water conservation measures proposed to be adopted in the project.
 - (xv) 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.
 - (xvi) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed hydro geological study should be undertaken and report furnished. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
 - (xvii) Details of first order stream, if any passing through lease area and modification/ diversion proposed, if any and the impact of the same on the hydrology should be brought out.
 - (xviii) Details of rainwater harvesting proposed, if any, in the project to be provided.
 - (xix) Information on site elevation, working depth, groundwater table should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
 - (xx) Quantity of solid waste generation to be estimated and details for its disposal and management be provided. Details of backfilling proposed, if any, should also be given. It may be clearly indicated that out of the total waste generation during the mine life, the quantity to be backfilled and the quantity to be disposed off in the form of external dump (number of dumps, their height, terraces etc.).
 - (xxi) The reclamation plan, post mine land use and progressive greenbelt development plan shall be prepared in tabular form (prescribed format) and submitted.
 - (xxii) Impact on local transport infrastructure due to the project. 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. Arrangement for improving the infrastructure, if contemplated including action to be taken by other agencies such as State Government, if any, should be covered.
 - (xxiii) Details of the infrastructure facilities to be provided for the mine workers.

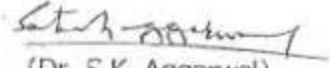
- (xxiv) Conceptual post mine land use and Reclamation and Rehabilitation of mined out area (with plans and with adequate number of sections).
- (xxv) Phase-wise plan of greenbelt development, plantation and compensatory afforestation clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
- (xxvi) Occupational health impact of the project. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
- (xxvii) Measures of socio economic influence to the local community proposed to be provided by project proponent. As far as possible, quantitative dimension to be given.
- (xxviii) Detailed environmental management plan to mitigate the environmental impacts which, should inter-alia also include the impact due to change of land use, due to loss of agricultural land and grazing land, if any, besides other impacts of the projects.
- (xxix) Public hearing points raised and commitment of the project proponent on the same along with time bound action plan to implement the same.
- (xxx) Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.
- (xxxi) The cost of the project (capital cost and recurring cost) as well as the cost towards implementation of EMP should clearly be spelt out.

4. Besides the above, the below mentioned general points will also to be followed:-

- a) All documents to be properly referenced with index, page numbers and continuous page numbering.
- b) Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- c) Where the documents provided in a language other than English, an English translation should be provided.
- d) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- e) Approved mine plan along with copy of the approval letter for the proposed capacity, should also be submitted.
- 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(T) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

5. The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

6. 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 proponent will get the public hearing conducted and take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.


(Dr. S.K. Aggarwal)
Director

Copy to:-

1. The Secretary, Department of Environment, Government of Jharkhand, Nepal House, Dordandor, Ranchi, Jharkhand
2. The Chairman, Jharkhand State Pollution Control Board, T.A. Building, HEC, P.O. Dhurwa, Ranchi- 834 004.
3. The Chief Conservator of Forests, Eastern Regional Office, Ministry of Environment & Forests, 194, Kharvela Nagar, Bhubaneswar-751001.
4. Guard file.

(Dr. S.K. Aggarwal)
Director