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

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Letter No. **154.**

Ranchi, Date: **09/10/2013.**

To:

**M/s Central Coalfields Limited,
Darbhanga House,
PO-Ranchi, Dist.-Ranchi,
Jharkhand. Pin - 834001.**

Sub.: Jarangdih Sand Mine in River Bed of Konar, Kathara area of M/s. Central Coalfields Limited, Plot No.-821P,1045P & 689P, Mouza – Jarangdih, Vill –Kathara, Tehsil –Gomia, District –Bokaro, Jharkhand. (Area- 48.75 Ha)-Prescribing of TOR- Regarding. (File No. EC/ SEIAA / 2013-14/80/2013)

Ref: Your application & Letter dated: 31-05-2013.

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 proposal is for mining of 0.146 MCM per year Normative Capacity and 0.156 MCM per year Peak Capacity of sand from bed of river Damodar for stowing in their underground mine. The mine lease area is 48.75 Ha. Mining will be done to a depth of 3 m. The mineable reserves are 1.08 MCM. The Project proponent was carrying mining through Contractual means after getting temporary sand lifting permission from DMO, Bokaro. In light of the Supreme Court Judgment DMO, Bokaro has asked them to obtain EC for granting lease. The PP has now approached for grant of TOR.

Based on the information furnished and presentation made, SEAC suggested TORs to SEIAA for undertaking detailed EIA study.

SEIAA, Jharkhand has approved the TORs suggested by SEAC in its meeting held on 25.09.2013.

The TORs prescribed for undertaking detailed EIA study are as follows:

- i. Year-wise production details since 1994 should be given, 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 came into force w.r.t. the highest production achieved prior to 1994.
- ii. A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- iii. 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 should be in name of lessee. While preparing the Mine Plans points mentioned in letter no Z-11012/3/2009-IA.II(M) dated 1st June 2010 issued by Minister of State (Independent Charge), Environment & Forests, Government of India alongwith SEIAA Guidelines should be given due consideration.

- iv. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo-sheet should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- v. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA report with description of the prescribed operating process/procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The 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 may also be detailed in the EIA report.
- vi. The terms and conditions imposed, if any, by the Competent Authority in the State Government while granting mining lease should be built into the mine plan as well as the EIA report. It may inter-alia include: area of working, mode of working, working shift, transportation of mineral etc.
- vii. 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 lease/ contract period.
- viii. 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. The 'no go areas' in terms of the contract should also be shown.
- ix. Description of available technologies for mining of sand should be included. Reason for choosing the proposed technology should be brought out.
- x. Land use plan of the mine lease area should be prepared to encompass pre-operational, operational and post operational phases. A site plan showing various components of the Project should also be included.
- xi. Status of forestry clearance for the forest land involved, if any. A copy of the proposal submitted for forestry clearance should also be furnished.
- xii. 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.
- xiii. A detailed biological study for the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] including the aquatic fauna in the riverine system 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.
- xiv. Impact of the project on land use including impact / change of river course, if any.
- xv. Impact on topography, drainage, agricultural fields, cattle fields, wildlife, water logging leading to water borne diseases, if any. It may also be shown whether it will lead to change of watercourse of the river. Modeling exercise should also be carried out through an expert agency to show the change in river flow dynamics, if any.
- xvi. Collection of one season (non-monsoon) primary baseline data on ambient air quality (PM_{10} & $PM_{2.5}$, SO_2 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 PM_{10} particularly for free silica should be given.

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- xvii. 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.
 - xviii. 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.
 - xix. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
 - xx. Impact of the project on the water quality should be assessed and necessary safeguard measures, if any required should be provided.
 - xxi. A detailed Hydrogeological Study to assess on the river water course is to be included. The same shall include information on site elevation, working depth, groundwater table should be provided both in AMSL and below ground level. A schematic diagram may also be provided for the same.
 - xxii. Quantity of solid waste generation, if any, to be estimated and details for its disposal and management be provided.
 - xxiii. Details of sand handling, loading and transportation arrangement is to be provided. Impact on local transport infrastructure due to the project should be identified. 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.
 - xxiv. Details of the infrastructure facilities to be provided for the mine workers.
 - 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.
 - xxvi. Occupational health impact of the project. Details of pre-placement medical examination and periodical medical examination schedules and medical facilities proposed to be provided 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. Specific safeguard measures to control PM_{10} & $PM_{2.5}$ as well as pollution due to transportation should be given.
 - 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.

Besides the above, the below mentioned general points will also 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.

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- d) The Questionnaire for environmental appraisal of mining projects as devised earlier by MOEF 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(I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
 - g) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area and (ii) geological maps and sections.

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.

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.

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

Memo No. 154.

Dated: 09/10/2013.

Copy to:

1. District Mining Officer, District Bokaro, Jharkhand.
2. Member Secretary, Jharkhand State Pollution Control Board, Ranchi.
3. Secretary, SEAC, Jharkhand, Ranchi for information and necessary action.


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Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand
