

F. No. J-11011/106/2013- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: 10th September, 2013

To,

Dr. J S Sharma
M/s ONGC
Corporate Health Safety & Environment Management,
8th Floor, Scope Minar, Laxmi Nagar, Delhi-110092

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Subject: Development of Jharia CBM Block, Jharkhand by M/s ONGC -TOR reg.

Ref.: Your letter No. ONGC/CHSE/EC/CBM-Jharia Block/2013-14 dated 16th May, 2013.

Sir,

Kindly refer your letter no. nil dated 16th May, 2013 alongwith project documents including Form-I, Pre-feasibility Report and draft 'Terms of Reference' as per the EIA Notification, 2006. It is noted that proposal is for development of Jharia CBM Block, Jharkhand by M/s ONGC.

2.0 Draft Terms of Reference (TOR) have been discussed and finalized during the 9th Reconstituted Expert Appraisal Committee (Industry) held during 10th-11th June, 2013 for preparation of EIA/EMP report. Following are the 'TORs':

1. Executive summary of the project.
2. Details of existing land use pattern within the proposed CBM block. (Cropping pattern, forest, agriculture land, wasteland etc, flora and fauna etc.)
3. Details of land acquisition w.r.t. private land, Govt. land, agriculture land, mode of compensation for land losers due to land acquisition and R & R etc.
4. Information regarding eco-sensitive area such as national park/wildlife sanctuary/ biosphere reserves within 10 km radius of project area.
5. Details of forest land involved in the proposed project. A copy of forest clearance letter, if applicable.
6. Permission from the State Forest Department regarding the impact of the proposed drilling on the surrounding reserve forests, if applicable.
7. Environment clearance for the existing unit issued by the Ministry (reasons, if not obtained), Consent to Operate and Authorization accorded by the JSPCB.

8. Confirmation with documentary support indicating allocation of the Block solely to M/s ONGC.
9. Is the block allocated for mining also? If yes, name of the company.
10. Comprehensive proposal covering surface facilities, pipeline/gas collection system, utilities etc.
11. Design details of all the facilities including CGS, GGS, pipe network, utilities and technology to be used for CBM project.
12. Location of core holes outside the forest area. The well sites shall be selected at more than 1.5 km away from the habitation. Forest and revenue land shall be avoided as far as possible.
13. Baseline data collection for air, water and soil for one season leaving the monsoon season in an area of 10 km radius with centre of CBM Field as its centre covering the area of all proposed drilling wells. It includes;
 - (i) Topography of the project site.
 - (ii) Ambient Air Quality monitoring at 10 locations for PM₁₀, SO₂, NO_x, VOCs, Methane and non-methane HC.
 - (iii) Soil sample analysis (physical and chemical properties) at the areas located at 5 locations.
 - (iv) Ground and surface water quality in the vicinity of the proposed wells site.
 - (v) Climatology and Meteorology including wind speed, wind direction, temperature rainfall relative humidity etc.
 - (vi) Measurement of Noise levels (day and night both) within 1 km radius of the proposed wells.
 - (vii) Vegetation and land use; Animal resources
14. Action plan to control ambient air quality as per NAAQES Standards for PM₁₀, PM_{2.5}, SO₂, CO and NO_x as per GSR 826(E) dated 16th November, 2009.
15. Actual source and 'Permission' for the drawl of water from the concerned authority.
16. Action plan for management of produced water.
17. Details of wastewater treatment method should be included.
18. Reuse of produced water for drinking after treatment / pisciculture / ground water recharge / irrigation / coal washing/power generation etc.
19. Extent and duration of flaring of methane gas during exploration.
20. Analysis of gas w.r.t. H₂S.
21. Noise monitoring should be carried out at the nearest villages.
22. Measures to control noise pollution.

23. Assessment of generation of solid and hazardous waste and its characteristics from the operator.
24. Proposed measures for treatment and disposal of solid and hazardous waste.
25. Storage of chemicals at the site, proposed preventive measures for spillage and accidents.
26. Developing emergency response plan and disaster management plan.
27. Capping of core holes in case of emergency.
28. Statistical data of accident occurred so far during CBM exploration.
29. Identification of hazard prone operations and asses the damage.
30. The post project closures plan, if the project is not economically viable.
31. Detailed Environment management Plan (EMP) with specific reference to details of air pollution control system, water & wastewater management, monitoring frequency, responsibility and time bound implementation plan for mitigation measure should be provided.
32. Details of occupational health surveillance programme.
33. Social impact assessment should be carried out.
34. Action plan for post-project environmental monitoring.
- 35. Corporate Environmental Responsibility**
 - (a) 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.
 - (b) Does the Environmental 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 report.
 - (c) 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.
 - (d) Does the company have a system of reporting of non-compliance / 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.
36. Public hearing issues raised and commitments made by the project proponent on the same should be included separately in EIA/EMP Report in the form of tabular chart with financial budget for complying with the commitments made.
37. Any litigation pending against the project and /or any direction /order passed by any Court of Law against the project, if so, details thereof.

The following general points should be noted:

- (i). All documents should be properly indexed, page numbered.
- (ii). Period/date of data collection should be clearly indicated.
- (iii). Authenticated English translation of all material provided in Regional languages.
- (iv). The letter/application for EC should quote the MOEF file No. and also attach a copy of the letter.
- (v). A copy of the letter received from the Ministry should be also attached as an annexure to the final EIA-EMP Report.
- (vi). The final EIA-EMP report submitted to the Ministry must incorporate the issues in this letter. The index of the final EIA-EMP report must indicate the specific chapter and page no. of the EIA-EMP Report where the above issues have been incorporated.
- (vii). 'Certificate of Accreditation' issued by the QCI to the environmental consultant should be included.

3.0 These 'TORs' should be considered for the preparation of EIA / EMP report for development of Jharia CBM Block, Jharkhand by M/s ONGC in addition to all the relevant information as per the 'General Structure of EIA' given in Appendix III and IIIA in the EIA Notification, 2006. The EIA/EMP as per TORs should be submitted to the Chairman, Jharkhand State Pollution Control Board, (JSPCB) for public consultation. The SPCB shall conduct the public hearing/public consultation as per the provisions of EIA notification, 2006.

4.0 You are requested to kindly submit the final EIA/EMP prepared as per TORs and incorporating all the issues raised during Public Hearing / Public Consultation to the Ministry for considering the proposal for environmental clearance ***within 2 years as per the MoEF O.M. No. J-11013/41/2006-IA.II (I) dated 22nd March, 2010.***

5.0 The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India / National Accreditation Board of Education and Training (QCI/NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other Organization(s)/Laboratories including their status of approvals etc.

(V. P. Upadhyay)
Director

Copy to : The Chairman, Jharkhand State Pollution Control Board, T.A. Division Building (Ground Floor) H.E.C., Dhurwa, Ranchi – 834 004, Jharkhand.(Fax : 0651 – 2400850)

(V. P. Upadhyay)
Director

