

State Level Environment Impact Assessment Authority, Jharkhand.

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Letter No. 184

Ranchi, Date: 26.11.2013

To:

M/s Bharat Petroleum Corporation Limited,
Mr. D.K. Mandal,
Project Leader, E&P, East.
Bharat Bhawan, Plot No.-31, KIT Scheme No.-118,
Prince Gulam Md. Shah Road, Gulf Green,
Post Box no.-16201 & 16204, Kolkata-700095.

Sub.: LPG Bottling Plant, Ranchi of M/s Bharat Petroleum Corporation Limited, Khata No.-311, Plot No.-1816,1818,1821,1822,1839, Khata No.-358, Plot No.-1828,1840,1820, Vill.-Anandi, Tehsil-Ormanjhi, Dist.-Ranchi, Jharkhand. (21.15 Acre) -Prescribing of TOR- Regarding. (File No.EC/ SEIAA / 2013-14/ 101 / 2013)

Ref: Your application & Letter dated: 12-07-2013.

Sir,

Reference is invited to your letter along with 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 .

The case is pertaining to storage and bottling of LPG, hence is listed as SN 6 (b) of EIA Notification 2006 and is required to obtain prior EC under the provisions of EIA Notification. The storage capacity is proposed as 2 x 300 MT. Bottling in Cylinders having capacity of 14.2 Kg / 19 Kg / 35 Kg / 47.5 Kg / 5 Kg will be carried out. LPG shall be brought in Bulk LPG Tanker. The plant is proposed at Village Anandi, Ormanjhi District Ranchi, Jharkhand which is located at a distance of 24 Km from Ranchi Railway Station. NH 33 is at a distance of 1.5 Km. It was informed that total area of 21.15 acres is required for the facility which is non agriculture land. Add. Collector, Ranchi has issued letter no 1293 (II) dated 12/06/2013 to Circle Officer, Ormanjhi informing that 20 acres of land has been settled for bottling plant. PP presented the salient feature of the projects and the location, which reveals that the industry operation involves unloading of LPG coming through tank – truck into bullets / mounted storage, filling of LPG into cylinders and distribution of the same through packed trucks, Domestic water requirement is reported to be 12 KLD, which shall be obtained from ground water sources. Fire water tank of capacity 2 x 1850 KL alongwith fire water pump is proposed for installation. After deliberations committee has approved the TOR to carry out EIA / EMP with inclusion of following points.

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 12.11.2013.

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

1. Executive summary of the project.
2. Project description and the project benefits. Process details along with the proposed allied facilities and design details of all the tanks with animated model. Layout plan with the provision of

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truck parking area earmarking of area for parking of Lorries at a remote location to avoid congestion. Details of the storage and technical specification with the safety aspects & standards.

3. Study of alternative sites should also be submitted so as to justify the selected site from environmental angle.
4. 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.
5. 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.
6. 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.
7. 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.
8. Details of the Environment Management cell having qualified persons with proper background.
9. The study area will comprise of 10 km zone around the project.
10. 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 should be indicated.
11. Land use plan of the project area should be prepared to encompass Pre-operational and operational phases and submitted.
12. High Resolution Satellite Imagery of the proposed area clearly showing the land use and other ecological features of the study area should be furnished.
13. A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any in the project area, or otherwise, based on land use classification (revenue record) as also in terms of the definition of forest as pronounced in the judgment of the Hon'ble Supreme Court of India in the matter of T.N. Godavarman Vs. Union of India. In the event of any claim by the project proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
14. Status of forestry clearance for the broken up area and virgin forestland involved in the project including deposition of net present value (NPV) and compensatory afforestation (CA). A copy of the forestry clearance should also be furnished.
15. Implementation of status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
16. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly detailed mitigative measures required should be worked out with cost implications and submitted.
17. The vegetation in the RF / PF area with necessary details should be given.
18. A study shall be got done to ascertain the impact of the project on wildlife of the area.

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19. 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 supported by a location map duly authenticated by Chief Wildlife Warden. 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. In case, there is no such Eco-sensitive area within 10 km, the boundary of the nearest Eco-sensitive area with its distance shall be marked in a drawing and included in EIA / EMP Report.
20. A detailed biological study for the study area shall be carried out. Details of flora and fauna, duly authenticated, separately for core and buffer zone should be furnished based on primary 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.
21. Impact, if any, of change of land use should be given.
22. Proposal for safety buffer zone around the proposed site with map.
23. List of Industries within 10 km radius of the project.
24. R&R plan / compensation details for the project affected people should be furnished. While preparing the R&R plan, the Jharkhand State and National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs / STs and other weaker sections, need based sample survey, family-wise, should be undertaken to assess their requirement and action programmes prepared accordingly integrating the sectoral programme of line departments of the State Government.
25. Collection of one season (non-monsoon) primary baseline data on ambient air quality, 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 RSPM / SPM particularly for free silica should be given. There should be at least one monitoring station within 500 m of the project in the pre-dominant downwind direction. The mineralogical composition of PM10 particularly for free silica should be given.
26. Collection of one complete season (non-monsoon) primary base line data (along-with dates of monitoring) on environmental quality such as air (PM₁₀, PM_{2.5}, SO_x & NO_x), noise, water (surface and ground water), soil, climatology & meteorology. Background levels of hydrocarbons (methane & non-methane HC) and VOCs should also be collected.
27. The monitoring should be conducted as per Central Pollution Control Board's guidelines and parameters for water testing for both ground water as per relevant guidelines.
28. Surface water ground water, soil, noise and ambient air quality be monitored at least at eight stations / locations around the proposed site. At least one monitoring station in the upwind / downstream / non-impact non polluting area as a control station.
29. 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 LPG. 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.
30. 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.



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31. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the project should be provided.
 32. Details of water conservation measures proposed to be adopted in the project should be given.
 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. 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.
 35. Details of any stream, seasonal or otherwise, passing through lease area and modification / diversion proposed, if any and the impact of the same on the hydrology should be brought out.
 36. Details of rainwater harvesting in the project should be provided. The same should be got approved from Ground Water Directorate Government of Jharkhand.
 37. Quantity of solid waste generation to be estimated and details for its disposal and management should be provided. Plan for disposal of Oily and Hazardous waste should be included and quantities indicated.
 38. Mode of transport of LPG to and from the plant, risk analysis during transportation and safety measures thereby. Impact on local transport infrastructure due to the project should be indicated. Projected increase in truck traffic as a result of the project in the present road network (including those outside the project area) should be worked out, indicating 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) should be covered.
 39. Details of the infrastructure facilities to be provided for the workers should be included in the EIA report.
 40. Phase-wise plan of greenbelt development, plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.
 41. Occupational health impact of project should be anticipated and preventive measures initiated. Details of proposed Occupational Health Surveillance program for the employees and other labour should be provided. Details of pre placement medical examination and periodical medical examination schedules should be incorporated in the EMP.
 42. 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.
 43. Measures of socio economic significance and influence to the local community proposed to be provided by project proponent should be indicated. As far as possible, quantitative dimensions may be given with time frame for implementation.
 44. 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, occupational health impacts besides other impacts of the projects. The EMP shall also include
 - o Details and frequency of the Mock Drills.

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- Details of Installation of piezometric holes to monitor the ground water quality after commissioning of Plant.
 - Detailed solid waste generation, collection, segregation its recycling and reuse, treatment and disposal.
 - Assessment of impact on air, water, soil, solid/hazardous waste and noise levels.
 - Plan for fire fighting facility as per OISD 117 norms
 - Details of proposed preventive measures for leakages and accident.
 - Details of Vapour Recovery System.
45. Risk Assessment & Disaster Management Plan
- i. Identification of hazards
 - ii. Consequence Analysis
 - iii. Preventive measures
 - iv. Risk assessment should also include leakages during storage handling transportation and proposed measures for risk reduction
 - v. Fire and explosion hazard.
46. Risk Assessment should also include follow up/compliance to safety & hazardous material management facilities possibility of fire and explosion accident, Risk assessment for accidents at site and its impact on adjoining area risk, mitigation measures disaster management plan on site & offsite emergency plan.
47. A separate chapter on Onsite and off site emergency plan as approved by the Health & Safety department along with Rapid risk analyses report of the plant is to be conducted and included in the EIA / EMP Report.
48. 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.
49. Details of litigation pending against the project, if any, with direction / order passed by any Court of Law against the project should be given.
50. The EIA-EMP report covering the impacts and management plan for the project specific activities on the environment of the region and the environmental quality- all water, noise, land, biotic community through collection of data and Information, generation of data on impacts for a rated capacity.
51. Detailed EMP to mitigate the adverse impacts due to project along-with item wise cost of its implementation (capital and recurring.)

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.

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- e) The Questionnaire for environmental appraisal of LPG Bottling projects as prescribed by the Ministry shall also be filled and submitted.
 - f) All statutory clearances obtained for the project shall be included in the EIA Report.
 - g) 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.
 - h) 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. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH process again with the revised documentation.

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.

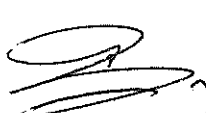
Sd/-
Member Secretary
State Level Environment Impact
Assessment Authority, Jharkhand.

Memo No. 184.

Dated: 26/11/13

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


26/11/13