



कार्यालय राज्य स्तर पर्यावरण समाघात निर्धारण प्राधिकरण (SEIAA) व  
राज्य विशेषज्ञ अंकन समिति (SEAC), उत्तराखण्ड।  
अजबपुर कलां, मोथरोवाला रोड, (समीप:-पी0एन0बी0), देहरादून।

पत्र संख्या- 35 / SEAC

दिनांक- 26 फरवरी, 2019

To,

M/s Bharat Petroleum Corporation Ltd.  
Plot 3A, UPSIDC industrial area on laxaur Road,  
Landhaura, Roorkee, Dist- Haridwar.

Sub- Regarding Environmental Clearance for Capacity Expansion of LPG Bottling Plant from 450 MT to 1350 MT Plot 3A, UPSIDC industrial area on laxaur Road, Landhaura, Roorkee, Dist- Haridwar.

Dear Sir/Madam,

Kindly take reference of your submitted vide proposal no SIA/UK/IND2/30115/2018 on dated 4<sup>th</sup> December, 2018 & letter dated 3<sup>rd</sup> December, 2018 regarding above proposal. The SEAC in its meeting dated 8<sup>th</sup> February, 2019 examined the proposal submitted by you. After through discussion and deliberation, it has been conveyed that SEAC desires comprehensive EIA report of this proposal after due public consultation conducted by Uttarakhand Environment Protection and Pollution Control Board. The terms of reference (TOR) for the EIA report is being out lined below:-

1. Introduction:

- i. Details of the EIA Consultant including NABET accreditation  
Information about the project proponent, importance and benefits of the project, cost of project and time of completion.

2. Project Description:

- i. Products with capacities for the proposed project.
- ii. List of raw materials required and their source along with mode of transportation.
- iii. Other chemicals and materials required with quantities and storage capacities
- iv. Details of Emission, effluents, hazardous waste generation and their management.
- v. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
- vi. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided  
Hazard identification and details of proposed safety systems.

3. Site Details:

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/ private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)

4. Environmental Status:

- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.

- ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO2, NOX, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
- iii. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
- iv. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
- v. Ground water monitoring at minimum at 8 locations shall be included.
- vi. Noise levels monitoring at 8 locations within the study area.
- vii. Soil Characteristic as per CPCB guidelines.

**5. Impact and Environmental Management Plan:**

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Details of stack emission and action plan for control of emissions to meet standards.
- iii. Measures for fugitive emission control
- iv. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- v. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- vi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.

**6. Occupational Health:**

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers

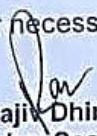
**7. A tabular chart with index for point wise compliance of above TOR.**

**8. Specific Terms of Reference**

- i. Details on list of hazardous chemicals to be stored along with storage quantities at the facility, their category (as per MSIHC Rules), MSDS.
- ii. Mode of receiving hazardous chemicals in isolated storages and mode of their dispatch.
- iii. Layout plan of the storage tanks and other associated facilities.
- iv. Details on types and specifications of the storage facilities including tanks, pumps, piping, valves, flanges, pumps, monitoring equipments, systems for emissions control safety controls including relief systems.
- v. Arrangements to control loss/leakage of chemicals and management system in case of leakage.
- vi. Risk Assessment & Disaster Management Plan
  - Identification of hazards
  - Consequence Analysis
  - Details of domino effect of the storage tanks and respective preventive measures including distance between storage units in an isolated storage facility.
  - Onsite and offsite emergency preparedness plan.

Note: The study area shall comprise of radial distance of 10 KM from the project site and the study period is three months. The impact on each of the above parameter as a result of mining shall be assessed through appropriate modeling and prediction methods considering base line data.

Hence you are kindly requested to kindly submit EIA report for further necessary action.

  
(Rajiv Dhiman)  
Member Secretary,  
SEAC, Uttarakhand

Copy to:- Member Secretary, Gaura Devi Paryavaran Bhavan Environment Protection and Pollution Control Board, IT, Park Dehradun for necessary action.

  
(Rajiv Dhiman)  
Member Secretary,  
SEAC, Uttarakhand