



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA), ODISHA

{ Constituted vide order No. S.O. 1899 (E) Date 17th August, 2012
Ministry of Environment & Forest, Govt. of India, Under Environment Protection Act, 1986. }

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Ref. No. 9227/SEIAA

Dt. 09.01.14

From

Shri S.B Samant, IFS
Member Secretary,
State Environment Impact Assessment Authority, (SEIAA) Odisha,
Bhubaneswar

To

Mr. Pritam Kumar, Project Leader
Bharat Petroleum Corporation Ltd.
Bharat Bhawan, Plot No. 31
KIT Scheme No. 18, Prince Gulami M.d.
Shah Road, Kolkata-700095
Phone No. 033-24293021,
Fax-033-24293252
E-mail- kumarpri@bharatpetroleum.in

Sub: Environmental Clearance for replacement of worn out Tanks with 2 nos. new Tanks of similar capacity of Paradeep Coastal Oil installation of Bharat Petroleum Corporation Ltd. at Paradeep, Odisha.

Sir,

This has reference to your letter no. nil dated 21.10.13 along with the application in the prescribed format (Form-I) and Terms of Reference (ToR) for Environmental Clearance on the above mentioned subject I am directed to say that the State Environment Impact Assessment Authority, Odisha have been pleased to grant herewith E.C. for replacement of worn out Tanks with 2 nos. new Tanks of similar capacity of Paradeep Coastal Oil installation of Bharat Petroleum Corporation Ltd. at Paradeep, Odisha. The proposal was considered by the committee to determine the "Terms of Reference (TOR)" for undertaking detailed EIA study for the purpose of obtaining environmental clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted information in the prescribed format (Form-I) alongwith pre-feasibility report.

BPCL has a POL Installation at Paradeep. This installation was constructed and commissioned in the year 1999 with an aim to cater to the growing demands of Petroleum products in and around the state of Orissa. The petroleum products thus received by the POL installation of Bharat Petroleum Corporation Limited at Paradeep are stored in various above ground tanks depending upon the class of product. Mainly, more volatile products like MS are stored in Floating Roof Tanks and lesser volatile products like HSD & SKO are stored in Cone Roof tanks. These stored petroleum products are distributed to various Retail outlets on the basis of need & demand.

Currently this POL installation of Bharat Petroleum Corporation at Paradeep has 4 above ground Floating roof tanks and 7 Cone roof tanks of various capacities for storage of these petroleum products. Besides this, the installation also has 3 underground tanks for storage of MS Speed, Hi-Speed Diesel and proposed Ethanol facility to the location. All these tanks are constructed using Mild Steel plates as per the norms.

Of the existing 4 above ground Floating Roof tanks of this POL installation, 3 tanks were used for storage of MS. However, owing to corrosive atmosphere at Paradeep, it was found that 2 of these 3 Floating Roof tanks used for storage of MS had undergone thinning of plates beyond the norms and accordingly they were made defunct since last few months.

Accordingly, there is an urgent need to dismantle the defunct 2 Floating Roof storage tanks and build two new tanks of equal capacity. The present proposal is for construction of two new tanks of same capacity on the existing foundation.

The consultant M/s. DEVELOPMENT CONSULTANTS PVT LTD on behalf of the project proponent made a detailed presentation and appealed to the committee to consider this as B2 category project as the proposal only involves construction of two new tanks dismantling old two tanks of same capacity on the existing foundation without enhancing over all storage capacity of POL of the plant..

The SEAC considered the project under Category-B2 and exempted it from EIA/EEMP studies /reports and recommended for grant of Environmental Clearance in favour of the project.

Based on the information document and clarification provided by the proponent and on the recommendation of SEAC, Odisha, the SEIAA, Odisha hereby accords E.C in favour of the project under the provisions of EIA Notification 2006 and 2009 and subsequent amendments thereto under various MoEF, Govt. of India circulars there under and subject to the following stipulated conditions.

Specific Conditions:

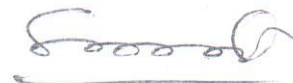
1. The proponent shall seek clarification from the concerned authority that proposed activity is not attract the provisions of CRZ clearance.



2. Adequate buffer zone around the Petroleum Oil Terminal shall be provided, as may be required as per OISD or other statutory requirements.
3. Regular ambient air quality monitoring of PM₁₀, SO₂, NOx, CO, VOCs and HC (Methane and Non –Methane) shall be monitored and displayed at a convenient location near the main gate of the company and at important public places. The location and results of existing monitoring stations shall be reviewed in consultation with the concerned State Pollution Control Board based on the occurrence of maximum ground level concentration and downwind direction of wind. If required, additional stations shall be set up. It shall be ensured that at least one monitoring station is set up in up-wind and in down wind direction along with those in other directions.
4. Regular monitoring of VOC and HC in work zone area in the plant premises shall be carried out and data be submitted to Ministry's Regional Office at Bhubaneswar, SEIAA, Odisha, CPCB and State Pollution Control Board. Quarterly monitoring for fugitive emissions shall be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office at Bhubaneswar and SEIAA, Odisha.
5. Vapor recovery system shall be installed to prevent leakage of vapor from tank / vessels / processing and filling areas to ensure no hydrocarbon vapor is released unchecked.
6. Prior permission shall be obtained from the concerned Authority for drawl of water.
7. The company shall construct the garland drain all around the project site to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non – oil contaminated streams. During rainy season, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted and ensured that monitoring parameters shall not exceed the prescribed standards.
8. Effluent from washing of storage tanks shall be properly treated in ETP/ oil water separator and treated wastewater shall conform to CPCB standards. No effluent shall be discharged outside the premises. Sewage shall be disposed off through septic tank followed by soak pit.
9. Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. should be followed. Company should ensure no oil spillage occur during loading/ unloading of petroleum products.



10. The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. All the hazardous waste shall be properly treated and disposed off in accordance with the Hazardous Waste (Management, Handling and Transboundary Movement), Rules, 2008.
11. Necessary approvals from Chief Controller of Explosives must be obtained before commission of the project. Requisite on site and off site disaster management plans will be prepared and implemented.
12. The company shall obtain all requisite clearances for fire safety and explosive and shall comply with the stipulation made by the respective authorities.
13. All storage tanks shall be provided with design features based on applicable OISD standards.
14. No change in the storage capacity and other facilities shall be made without getting proper approval from the SEIAA, Odisha.
15. Fully automated Tank Farm Management System (TFMS) will be provided for accounting of products and reconciliation.
16. Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill shall be conducted once in a month.
17. Bottom oil sludge shall be handled, stored and disposed as per CPCB/MoEF guidelines. An action plan in this regard including bioremediation shall be submitted to the Ministry and its Regional Office at Bhubaneswar and also to SEIAA, Odisha within 3 months of issue of the letter.
18. Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the factory act.
19. Green belt shall be developed in 33% of the plot area to mitigate the effect of fugitive emission all around the plant in consultation with DFO as per CPCB guidelines. Thick green belt around storage area should be ensured.
20. The company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the project and storm water drains to recharge the ground water and use the same water from the various activities of the project to conserve fresh water.
21. Comprehensive Risk Assessment shall be carried out to assess the fire and explosion risk due to POL storage and report submitted to the ministry and its Regional Office at Bhubaneswar within six months.



22. All the recommendation mentioned in the EMP/DMP shall be implemented.
23. Dedicated parking facility for loading and unloading of material should be provided in the POL storage. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
24. Company shall adopt Corporate Environment Policy as per the Ministry's O.M. No. J-110.13/41/2006-I.A.II(I) dated 26th April, 2011 and implemented.
25. Under corporate social Responsibility (CSR), sufficient budgetary provision shall be made for health improvement, education, water and electricity supply etc. in and around the project area.
26. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
27. With respect to storage tank (crude) 'leak' and storage tank 'fire' the ideal values for "failure frequency" shall be submitted within 3 months to the SEIAA, Odisha
28. A pipeline failure frequency test should be conducted and test result shall be intimated to the SEIAA, Odisha.
29. The quantity to be generated and treated and ultimate disposal of treated sludge shall be intimated to the SEIAA, Odisha.
30. A comprehensive Pipeline Integrity Management Plan shall be implemented to ensure safe operation of the pipe line.
31. The proponent shall carry out maintenance of pipelines and other ancillaries at pumping stations round the year as per standard Regulations.
32. Detailed risk analysis shall be carried out once the engineering design and layout is frozen. Based on this, on-site and off-site emergency preparedness plan shall be prepared. Approval from the nodal agency shall be obtained before commissioning of the project.
33. The proponent shall prepare a separate on site and off site emergency plan for the residential colony of pumping stations.
34. The project proponent shall construct the garland drain all around the storage area to prevent runoff of any oil containing waste into the nearby water bodies. Separate drainage system shall be created for oil contaminated and non – oil contaminated



streams. During rainy season, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted and ensured that monitoring parameters shall not exceed the prescribed standards.


35. Effluent from cleaning process of storage tanks, motor driven pumps, shall be properly treated in ETP/ oil water separator and treated wastewater shall conform to prescribed standard of CPCB/ Odisha State Pollution Control Board before being discharged to nearby land/ water bodies.
36. Adequate green belt shall be developed surrounding storage site, motor driven pumps, area.

B. General Conditions:

- 1) The project authorities shall strictly adhere to the stipulations made by the Odisha State Pollution control Board.
- 2) No further expansion or modifications in the plant shall be carried out without prior approval of SEIAA, Odisha. In case of deviations or alternations in the project proposal from those submitted to this SEIAA, Odisha for clearance, a fresh reference shall be made to the SEIAA, Odisha to assess the adequacy of conditions imposed and to add additional environmental protection measures required if any.
- 3) The location of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- 4) The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75dB(A) (day time) and 70 dBA (night time).
- 5) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- 6) The company shall also comply with all the environmental protection measures and safeguard proposed in the documents submitted to the SEIAA, Odisha. All the



- recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- 7) The company shall undertake all relevant measures for improving the socio economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
 - 8) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
 - 9) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
 - 10) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the SEIAA, Odisha as well as the State Government along with the implementation schedule for all the conditions stipulated therein. The funds so earmarked for environment management / pollution control measures shall not be diverted for any other purpose.
 - 11) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any were received while processing the proposal.
 - 12) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB, SEIAA, Odisha and OSPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
 - 13) The environmental statement for each financial year ending 31st March, in Form -V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986 as amended subsequently, shall be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
 - 14) The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA, Odisha and copies of the clearance letter



are available with the OSPCB/ SEIAA, Odisha and may also be seen at Website of the SEIAA, Odisha. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

- 15) The project authorities shall inform the Regional Office as well as the Ministry and SEIAA, Odisha the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.



Member Secretary

Memo No 9228/SEIAA /Dt. 09.01.14

Copy to

1. Ministry of Environment & Forests, Govt. of India, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi for kind information.
2. Principal Secretary, Forests & Environment Dept., Government of Orissa for kind information.
3. Chairman, State Pollution Control Board, Parivesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for kind information.
4. Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for kind information.
5. Chairman, Central Pollution Control Board, CBD-cum-office Complex, East Arjun Nagar, New Delhi-110032 for kind information.
6. Collector & District Magistrate, Jagatsinghpur for kind information and necessary action.
7. Chairman/Member/Member Secretary, SEIAA for kind information.
8. Chairman, SEAC/Secretary, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
9. Guard file for record.



Member Secretary