

No. SEIAA: 14: IND: 2011
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY, KARNATAKA
(Constituted by Ministry of Environment & Forests, Government of India)

Department of Ecology & Environment,
Room No.709, 7th Floor, IV-Gate,
M.S. Building, Bangalore-560 001,

Date: 24th November 2011.

To,

Indian Oil Corporation Ltd.,
Indian Oil Bhavan, No. 29,
P. Kalingarao Raod, (Mission Road),
Bangalore - 560 027.

Rao
/ *h*
24/11

Sir,

Sub: Expansion of bulk petroleum storage capacity from 16,679 KLD to 19,454 KLD by establishing additional 2 Nos of storage tanks of total capacity 2775 KL with 2 Nos of additional TFL bays and additional pumps, security room at Sy. No. 13, 14, 15, 16, 17, 18, 19, 20, 21 & 22, Navalur Taluk, Dharwad District of Indian Oil Corporation Ltd. - issue environmental clearance - reg

This has reference to your letter received on 18.04.2011 addressed to SEIAA along with Form-I and Feasibility report on the above-mentioned subject seeking environmental clearance.

The SEIAA has examined your application. It is noted that, it is a proposal for expansion of bulk petroleum storage capacity from 16,679 KLD to 19,454 KLD by establishing additional 2 Nos of storage tanks of total capacity 2775 KL with 2 Nos of additional TFL bays and additional pumps, security room. The below table shows the existing and proposed petroleum products storage details:

Sl. No.	Products	Existing capacity (KL)	Proposed capacity (KL)
1	Petrol (MS-Class A)	1304	1424
2	Diesel (HSD-Class B)	9165	1351
3	Kerosene (SKO-Class B)	6110	-
4	Ethanol (Class- A)	100	-
Total		16,679	2775

The proposed expansion involves Construction of 1424 tank with 14 M Dia X 10.5 M High and 1351 tank with 12 M dia X 12 M High. The existing total plot area is 43.20 acres and no additional land is required for the proposed expansion. The total water requirement for the proposed expansion is 1 KLD for domestic purposes and will be met from the existing borewells.

Domestic waste water will be treated in septic tank and soak pit. Total investment for the proposed expansion is ₹ 1553 Lakhs. 2 Nos of oil water separators provided for spillage of oil if any. Power requirement is 404 KVA and 1 X 250 KVA and 1 X 100 KVA DG sets provided for alternative power backup.

The project activity is listed at 6(b) in the schedule of Environmental Impact Assessment Notification, 2006 and is of 'B' Category. The project has been appraised by the State Expert Appraisal Committee in its meeting held on 06.08.2011 & 14.10.2011 and categorized as 'B2'. Hence no EIA and public consultation reports are required for the project. Proposal was recommended by SEAC for environmental clearance.

The proposal has been considered by SEIAA in its meeting held on 05.11.2011 and environmental clearance is hereby accords to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to strict compliance of the following Specific and General Conditions.

A. SPECIFIC CONDITIONS:

1. The water requirement for the project shall be sourced from the rainwater harvesting system developed within the premises. Water consumption shall be only for domestic purpose.
2. There shall not be any wastewater generation nor any discharge from the project activities.
3. Domestic wastewater shall be discharged into septic tank/ soak pit system.
4. The storm water drains shall be kept dry and shall not be used for discharge of any kind of waste. The project proponent shall prepare an Action Plan for the monsoon period in which the water quality flowing outside the premises shall be monitored for hydrocarbon and oil & grease parameters and its records shall be maintained & submitted to KSPCB.
5. Gaseous emission at workplaces shall be controlled and kept below the limits prescribed by the Factories Act and Rules. Their records shall be maintained.
6. The gaseous emissions and particulate matter from various process shall conform to the standards prescribed by KSPCB. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the prescribed standards.
7. The unit must strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous Waste (Management and Handling) Rules 2003. Authorization from the KSPCB must be obtained for collection / treatment /storage /disposal of hazardous wastes.
8. The project management shall strictly comply with the provisions made in Manufacture Storage and Impact of Hazardous Chemicals Rules 1989 as

- amended in 2000 for handling of hazardous chemicals. Necessary approvals from the Govt. Authorities shall be obtained before commissioning of the project, if applicable.
9. All Transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act & Rules.
 10. Hazardous materials storage shall be at an isolated designated location, bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.
 11. All transportation routes within the premise shall have paved roads to minimize splashes and spillages.
 12. Mock drills shall be conducted at regular intervals as per statutory requirements and their records shall be maintained.
 13. Necessary dyke wall along with spill collection sump shall be provided around the storage tanks to arrest the spillage/ leakage.
 14. All the storage tanks in the premises shall be provided with sprinkler as per OISD norms.
 15. Fire protection system shall be upgraded for the additional storage tanks installation and shall conform to OISD standards.
 16. Necessary flameproof fittings shall be provided in the storage facility.
 17. Proper ventilation shall be provided in the whole premises.
 18. All venting equipment shall have vapour recovery system. All the pumps and other equipments where there is a likelihood of leakages shall be provided with Leak Detections and Repair (LDAR) system. Provisions for immediate isolation of such equipment in case of a leakage shall also be made. The detector sensitivity shall be in ppm levels.
 19. All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Close handling system for chemicals shall be provided. Double mechanical seals shall be provided for pumps /agitators for reactors for reduction of fugitive emissions and leakages. Traps shall be installed wherever necessary.
 20. During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic waste and storm water drain.
 21. Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised.
 22. First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity at all the times.
 23. Training shall be given to all personnel on safety and health aspects of handling petroleum products including regular mock drills.
 24. Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act and Rules. Pre-employment and periodical medical examination for all workers shall be undertaken as per statutory requirement.
 25. The project management shall prepare a detailed Disaster Management Plan (DMP) for the project as per the guidelines from Directorate of Industrial Safety and Health.
 26. On site Emergency Control Plan and Off Site Emergency Plan shall be updated and its recommendation shall be implemented.

27. Design of the storage tanks shall be done in accordance with the applicable OISD, IS, API, ASME standards.
28. Necessary permissions from the Chief Controller of Explosive-Nagpur, State Department of Safety and Health, and other relevant Government Agencies shall be taken prior commencement of the project.
29. Ambient air quality status with respect to VOC in the area shall be monitored in consultation with Karnataka State Pollution Control Board and its records shall be submitted to SEIAA.
30. First Aid Box, fire extinguishers, foams, sand etc. shall be made readily available in adequate quantity at all the times. Necessary tie up with the nearby fire stations and other emergency services shall be made to ensure that the required aids reach within the shortest possible time in case of any adverse conditions.
31. The unit shall undertake following waste minimization measures:
 - a) Use of automated and close filling to minimize spillages.
 - b) Venting equipment through vapour recovery system.
32. The company shall develop at least 33% of the plot area as green belt as per the CPCB guidelines to mitigate the effect of fugitive emissions and shall plant indigenous tree species such as Mahagoni, Honge, Neem, Akash Mallige, Kadamba, Ficus and Ashoka, etc.
33. The proponent shall adopt appropriate plan to contain escape of VOC.
34. The proponent shall adopt appropriate plan to prevent ground water contamination.
35. Appropriate plan to prevent probable impact on human habitat in the event of fire hazards shall be put in place.
36. The project authorities shall undertake intensive awareness program among those living at the vicinity of the project site with regard to emergency safety plan.

B. GENERAL CONDITIONS:

1. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board and the State Government.
2. The Proponent shall obtain the construction material such as stones and jelly etc. only from the approved quarries and other construction material shall also be procured from the authorized agencies/traders.
3. The proponent shall obtain approval from the competent authorities for structural safety of the building due to earthquake, adequacy of fire fighting equipment etc. as per the National Building Code (NBC) including protection measures for lightening etc.
4. No further expansion or modification in the project shall be carried out without prior approval of the SEIAA. In case of deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the Authority to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
5. The emissions of (RSPM, SPM, SO₂, NO_x, HC & VOC) from DG Set and from flare stack shall conform to the standards prescribed by the KSPCB. Regular monitoring of Ambient Air for HC and VOC shall be carried out

- as per CPCB guidelines. Stack height attached to DG sets shall be in-conformance with the environment protection acts and rules.
6. The project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous chemicals Rules, 1989 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
 7. The project authorities must strictly comply with the rules and regulation with regard to handling and disposal of Hazardous Wastes (Management and Handling) Rules, 1989/ 2003 wherever applicable. Authorization from the Karnataka State Pollution Control Board must be obtained for collections/treatment/storage/disposal of hazardous wastes.
 8. The overall noise levels 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
 9. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
 10. The project authorities will provide adequate funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, Karnataka as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
 11. The Regional Office of this Ministry at Bangalore/Central Pollution Control Board/Karnataka State Pollution Control Board /Department of Ecology and Environment, Government of Karnataka, M.S. Building, Bangalore-560 001/Regional Director (Environment), Karwar, Department of Forest, Ecology and Environment, Government of Karnataka will monitor the stipulated conditions. A half yearly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
 12. The project proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA and copies of the clearance letter are available with the KSPCB and may also be seen at Website of the State Environment and Ecology department at <http://www.seiaa.kar.nic.in>. 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 Regional Office of MoEF at Bangalore / KSPCB/ CPCB/ Department of Ecology and Environment, Government of Karnataka, M.S. Building, Bangalore-560 001/ Regional Director (Environment), Karwar and the Department of Ecology & Environment, Government of Karnataka, Bangalore
 13. The project authorities shall inform the SEIAA, Karnataka, Regional Office of MoEF at Bangalore / KSPCB/ CPCB/ Department of Ecology and

- Environment, Government of Karnataka, M.S. Building, Bangalore-560 001/ Regional Director (Environment), Karwar and the Department of Ecology & Environment, Government of Karnataka, Bangalore, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
14. The Authority may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 15. The Authority reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.
 16. Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.
 17. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management & Handling) Rules, 1989, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
 18. The issue of Environment Clearance doesn't confer any right to the project proponent to operate / run the project without obtaining statutory clearances / sanctions from all other concerned Authorities.
 19. The project proponent should display the conditions prominently at the entrance of the project site on a suitable size board for the information of the public.
 20. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environmental (Protection) Act, 1986.
 21. Any Appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

Yours faithfully,


(KANWERPAL)
Member Secretary,
SEIAA.

Copy to:

1. The Secretary, Ministry of Environment & Forests, Government of India, Paryavaran Bhavan, CGO Complex, Lodi Road, New Delhi-110003.
2. The Secretary, Department of Environment and Ecology, Government of Karnataka, M.S. Building, Bangalore-560 001.
3. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, Church Street, Bangalore-560 001.

4. Regional Director (Environment), Department of Ecology and Environment, Government of Karnataka, Karwar.
5. The CCF, Regional Office, Ministry of Environment & Forests (SZ), Kendriya Sadan, IV Floor, E & F wings, 17th Main Road, Koramangala II Block, Bangalore-560 034, Bangalore.
6. Guard File.