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20/07/18

F.No. J-11011/255/2017-IA II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(IA-II Division)



Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 3
Dated: 6th July, 2018

To,

M/s Indian Oil Corporation Limited
Delhi Terminal,
Nayakpura, Bijwasan,
New Delhi - 61

EIA/226/
26/07/18

1188/1832
RECEIVED
IT Cell for
Bijwasan

ms
SEE (EIA)

Sub: Expansion of Isolated storage terminal with additional two storage tanks for Ethanol by M/s Indian Oil Corporation Limited at IOCL Delhi Terminal, Bijwasan (New Delhi) - Environmental Clearance - reg.

Ref.: Online proposal No. IA/DL/IND2/64268/2017 dated 25th April, 2018

Sir,

This has reference to your online proposal No. IA/DL/IND2/64268/2017 dated 25th April, 2018 for environmental clearance to the above project, along with the documents including Form-1, Terms of Reference (ToR), EIA/ EMP report.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of Isolated storage terminal by providing additional tankage for Ethanol (2 x 2000 KL capacity) by M/s Indian Oil Corporation Limited at IOCL Delhi Terminal, Bijwasan (New Delhi). Due to the proposed expansion, total storage capacity of the terminal (presently having 23 storage tanks) shall be increased from 166036 KL to 170036 KL. Details of storage & handling for existing and additional products / hazardous chemicals are given as under: -

Material	Existing		Additional		Total	
	Storage Capacity (KL)	No. of Storage Tanks	Storage Capacity (KL)	No. of Storage Tanks	Storage Capacity (KL)	No. of Storage Tanks
HSD	11000	1	-	-	42396	4
	13791	1	-	-		
	10805	1	-	-		
	6800	1	-	-		
MS	9163	1	-	-	31952	4
	8827	1	-	-		
	6981	2	-	-		
SKO	8385	2	-	-	13615	3
	5230	1	-	-		
LDO	5200	1	-	-	5200	1
ATF	16220	2	-	-	62072	6

	8655	1	-	-		
	7194	1	-	-		
	9783	1	-	-		
	4000	1	-	-		
EMPTY	180	2	-	-	360	2
93-OCTANE	180	1	-	-	180	1
ETHANOL	938	2	2000	2	5876	4
Total	166036	23	4000	2	170036	25

3. Total land area of the storage terminal is 287327 sqm and no additional land would be required for the proposed expansion. Greenbelt has been already developed in an area of 97231 sqm, covering 33.84% of total project area. Total project cost is estimated to be Rs.9.79 crores. The capital cost earmarked for pollution control measures and the recurring cost (operation and maintenance) is Rs.2.18 lakh. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km of the project site.

4. Total water requirement is estimated to be 50 m³/day proposed to be met from tankers. Water is required only for gardening and domestic purpose. No additional water would be required after proposed expansion. There will be no discharge of treated/untreated waste water from the unit, as the terminal is providing only storage and handling services.

5. The existing power requirement of 1.15 MW is being supplied by BSES (Bombay Suburban Electric Supply) through a 6.6/0.415 kV Transformer. The terminal is equipped with 2 Nos. of 750 kVA & 01 No. of 500 kVA DG sets with adequate stack height of 7 m as per CPCB Norms for standby. After expansion, there shall be no additional requirement of power from the supply and/or DG set.

Details of Solid waste/ Hazardous waste generation and its management.

S. No.	Hazardous Waste	Hazardous Waste Category	Quantity per Annum			Management
			Existing	Proposed	Total	
1	Used Oil	5.1	60 liters	0.00	60 liters	Disposed to authorized agency

6. The project/activity is covered under category B of item 6(b) 'Isolated Storage & Handling of Hazardous Chemicals' of Schedule of Environmental Impact Assessment (EIA) Notification, 2006, and requires appraisal at the State level by the concerned SEAC/SEIAA. However, due to non-existence of SEIAA in New Delhi, the proposal was considered at central level.

7. The ToR for the project was granted by the Ministry vide letter dated 25th September, 2017, providing exemption from public hearing in terms of provision of the EIA Notification, 2006.

8. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 37th meeting held during 29-31 May, 2018. The project proponent and their accredited consultant M/s Eco Chem Sales & Services, presented the EIA / EMP report as per the ToR. The Committee found the EIA / EMP Report to be satisfactory and complying with the ToR. The Committee has recommended the proposal for grant of environmental clearance.

9. Based on the proposal submitted by the project proponent and recommendations of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for expansion of **Isolated Storage Terminal by providing additional tankage for Ethanol** (2 x 2000 KL capacity) by M/s Indian Oil Corporation Limited at IOCL Delhi Terminal, Bijwasan (New Delhi), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:

- (a) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises
- (c) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (d) Ambient air quality shall be monitored at the nearest human settlements as per the National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 for PM₁₀, PM_{2.5}, SO₂, NO_x, CO, CH₄, HC, Non-methane HC etc.
- (e) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (f) During construction phase, air pollution and the solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.
- (g) The green belt of 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines and in consultation with the State Forest Department.
- (h) At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (i) Regular monitoring of VOC and HC in the work zone area in the plant premises should be carried out and data to be submitted to Ministry's Regional Office, CPCB and State Pollution Control Board. Quarterly monitoring for fugitive emissions should be carried out as per the guidelines of CPCB and reports submitted to Ministry's Regional Office.
- (j) Necessary approvals from Chief Controller of Explosives, as applicable, shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans shall be prepared and implemented.
- (k) Emergency Response Plan should be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill should be conducted once a month.

- (l) Additional safety measures should be taken by using remote operated shut off valve, Double Block & Bleed valve (DBB), impervious dyke wall and un-bonded flexible roof drain pipe, if applicable.
- (m) Occupational health surveillance of worker should be done on a regular basis and records maintained as per the Factory Act.
- (n) The norms/guidelines of Oil Industry Safety Directorate (OISD) for installation and design of equipment and operation of the LPG Bottling Plants shall be strictly followed. Safety audit to be carried out and report submitted to the Regional Office.
- (o) Road tankers should be equipped to the standard specified in national regulations reputable code. Vehicles should be mobilized during transfer operations and equipped to prevent untimely movement. Loading/unloading bays should be protected against impact. Fire-resistant coatings shall be provided to tanks/vessels.
- (p) Sections of pipeline and storage systems that can be isolated with valves or blinds should be equipped with safety valves to protect against possible damage as liquid LPG expands with increases in temperature.
- (q) High and low-level alarms shall be fitted to plant storage tanks which can detect overfilling. However, proper supervision shall be done every time.
- (r) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (s) Water sprinkling has to be undertaken on regular basis to control the polluting particles.

9.1 The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations 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 stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

- (v) 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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) 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.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) 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&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) 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 also 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&CC by e-mail.

(xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.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 concerned Regional office of the Ministry.

10. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

11. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

12. 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, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

SK
6/7/2018
(S. K. Srivastava)
Scientist E

Copy to: -

1. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, **Lucknow-226020 (UP)**
2. The Secretary, Environment and Forest, Government of NCT of Delhi, Delhi Secretariat, I.P. Estate, **New Delhi - 2**
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, **Delhi - 32**
4. The Member Secretary, Delhi Pollution Control Committee, Government of NCT Delhi, 4th Floor, ISBT Building, Kashmere Gate, **Delhi - 6**
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi.**
6. Guard File/Monitoring File/Record File

SK
6/7/2018
(S. K. Srivastava)
Scientist E