

**STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

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Salt Lake, Kolkata – 700 106

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Website : [www.environmentwb.gov.in](http://www.environmentwb.gov.in)

No. 1895 / EN/ T-II-1/071/2017

Date : 02 / 08 /2018

To  
M/s. Indian Oil Corporation Limited.  
2, Gariahat Road (South)  
Kolkata – 700 068

*Subject : Environmental Clearance for the proposed construction of a new LPG bottling plant of 3x600 MT mounded storage vessels and bottling capacity of 1,20,000 MTPA at Plot nos. B1 & B2, Vidyasagar Industrial Park, Kharagpur, Paschim Medinipur, West Bengal by M/s. Indian Oil Corporation Limited.*

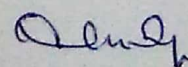
Sir,

This has a reference to your application submitted on 16/10/2017 and subsequent communications for Environmental Clearance for the proposed construction of a new LPG bottling plant of 3x600 MT mounded storage vessels and bottling capacity of 1,20,000 MTPA at Plot nos. B1 & B2, Vidyasagar Industrial Park, Kharagpur, Paschim Medinipur, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, 2006.. It is noted that the proposed proposal is for construction of a new LPG bottling plant of 3x600 MT mounded storage vessels and bottling capacity of 1,20,000 MTPA.

It is noted that the salient features of the project for which Environmental clearance has been considered are as follows :

Type of Project	Liquefied Petroleum Gas (LPG) storage and bottling	
Proposed Storage	3x600 MT Mounded Storage Vessel for LPG	
Bottling Capacity	120000 MTPA	
Address	Vidyasagar Industrial Park, Kharagpur, West Medinipur	
Latitude & Longitude	22° 22' 0.42" N & 87° 20' 37.22" E	
Area of total site	40 Acres	
Seismic Zone	Seismic Zone – III (Moderate Intensity zone) as per IS:1893 (part-I):2002	
Project Cost	163.02 Crores	
Source of water & quantity	Ground / WBIDC Supply	
	Description	Proposed Quantity in KLD
	Domestic, Fire Fighting & Hydrant	40.0
	Water for washing and cleaning cylinders	10.0
	Total	50.0



Conditions for Environmental Clearance for the proposed construction of a new LPG bottling plant of 3x600 MT mounded storage vessels and bottling capacity of 1,20,000 MTPA at Plot nos. B1 & B2, Vidyasagar Industrial Park, Kharagpur, Paschim Medinipur, West Bengal by M/s. Indian Oil Corporation Limited.

Waste water generation quantity	<b>Description</b>		<b>Proposed Quantity in KLD</b>
	Sewage		32.0
	Washings – Trade Effluent		6.0
	<b>Total</b>		<b>38.0</b>
Waste water treatment	Domestic Effluent - Septic Tank followed by soak pit Industrial Effluent – Washing water generated from cylinder washing will be diverted to sedimentation traps and clarified waste water will be reused for cylinder washing.		
Solid & Hazardous Waste	<b>Sl. No.</b>	<b>Name of the Waste</b>	<b>Quantity</b>
	1.	Cylinder Scrap & Miscellaneous scrap	10000 kgs/annum
	2.	Unused batteries	6 nos/year
	3.	Lubricating Oil	100 LPA
Power requirement	Power requirement envisaged is 500 KW and will be supplied by WBSEDCL. DG set details:		
	1x750 KVA, 1x500 KVA		2 Nos.
	Stack Height		5 mts
	Fuel		50 Lts/day
Manpower requirement	Total man power requirement for the proposed project is 70 members.		

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and after considering the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14<sup>th</sup> September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below.

#### A. SPECIFIC CONDITIONS:

- i. The Applicant shall measure ambient air quality for the parameters PM<sub>10</sub>, PM<sub>2.5</sub>, NO<sub>x</sub>, SO<sub>2</sub>, hydrocarbon and VOC in and around the project site and shall maintain its records. The locations of the ambient air monitoring station shall be done in consultation with WBPCB.
- ii. The project authority shall strictly comply with the provisions made in the Manufacture, Storage and

- Import of Hazardous Chemicals Rules 1989 and amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc.
- iii. The project authority shall obtain all requisite clearances for fire safety and explosives and should comply with the stipulations made by the respective authorities. All safety measures shall be ensured during loading, filling and transfer points etc. Latest firefighting equipment shall be implemented.
  - iv. Necessary permissions from various statutory authorities like Chief Controller of Explosive, Factory Inspectorate and others shall be obtained prior commissioning of the project. Requisite On-site & Off-site Disaster Management Plans shall be prepared and implemented.
  - v. Oil Industry Safety Directorate (OISD) standards and other standards issued by the Government of India for the construction and operation of the bullets shall be followed strictly. Necessary clearance from Petroleum and Explosives Safety Organisation (PESO) must be obtained.
  - vi. Personal Protective Equipment shall be provided to workers and its usage shall be ensured and supervised. First Aid Box, all types of fire extinguishers, water sprinkler, 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.
  - vii. Training shall be imparted to all the workers on safety aspects of which shall include regular mock drill. Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken on regular basis as per Factories Act & Rules.
  - viii. The company shall carryout Disaster Management Plan, Risk Assessment based on the Worst Case Scenario and Maximum Credible Accident scenario by competent agency. The company shall implement all preventive and mitigation measures suggested by the agency.
  - ix. The company shall undertake following waste minimization measures:
    - a. Good housekeeping
    - b. Use of automated and enclosed filling to minimize leakage
  - x. Groundwater shall not be abstracted without prior permission of the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.
  - xi. Leakages from the pipes, pumps, shall be minimal and if occurs, shall be arrested promptly.
  - xii. The project authority shall install automatic leak detection systems and alarm systems at all strategic locations. Project authority shall install automatic interlocking shutdown systems in case of any leakage of gas.
  - xiii. Adequate provisions should be made for harvesting rainwater. The unit may develop storage facilities of adequate capacity as proposed to harvest rainwater. The harvested water should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.
  - xiv. Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. At least 3750 number of trees are to be planted and maintained. Indicative list of species is given in Annexure – I. There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.
  - xv. Ambient noise level should not exceed the permissible limit. 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime) within premises.
  - xvi. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. D. G.

*[Handwritten signature]*

- Sets to be installed for backup power shall be of enclosed type and confirm to prescribe standards under EPA rules.
- xvii. Fugitive emission at workplaces shall be controlled and kept below the limits prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. For control of fugitive emission following steps shall be followed :
- a) Closed handling system shall be provided.
  - b) Pumps shall be provided with mechanical seals to prevent leakages.
  - c) System of leak detection and repair of pump/pipeline based on preventive maintenance.
- xviii. The hazardous waste shall be stored in separate designated hazardous waste storage facility as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, with impervious bottom and leachate collection facility, before its disposal. Used oil shall be either reused as a lubricant or sold only to the registered recyclers as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016,
- xix. Design of the mounded LPG Storage Vessels shall be done in accordance with the applicable Oil Industry Safety Directorate (OISD) – 150 and BS-5500 standards.
- xx. The entire plant shall be networked with pressurized fire hydrant lines having fire hydrants, long range monitors and deluge valves at strategic locations as per the OISD-144.
- xxi. All internal roads should be pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper housekeeping shall be maintained within the premises.
- xxii. Fire Water Storage Tanks shall be provided and it shall be adequate to meet the requirements as per the OISD. Every fire water pump shall be tested for at least half an hour twice a week and shall be check for performance one in six months.
- xxiii. Lightening protection devices shall be provided for all the storage tanks.
- xxiv. Remotely Operated Valve (ROV) shall be provided at strategic point on the LPG feeder line. The ROV shall be interlocked for auto-activation in the event of an emergency and provision shall also be made for activation by the emergency shutdown station.
- xxv. High temperature and high pressure alarm with auto-activation of water sprinklers as well as safety relief valve shall be provided.
- xxvi. The entire LPG Tank farm area shall be provided with leak detection sensors located at areas prone to fire risk / leakages.
- xxvii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xxviii. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xxix. All the issues raised in the public hearing should be complied with.
- xxx. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. At least 2.5% of the project cost should be utilised for Corporate Social Responsibility programmes. The proponent shall undertake community welfare measures in the project area involving infrastructure development in local schools etc.

## **B. GENERAL CONDITIONS:**

- i. The environmental clearance accorded shall be valid for a period of 7 years for the proposed expansion project.

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- ii. Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
- iii. The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply, sanitation program for local school and health care etc.
- iv. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
- v. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.
- vi. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
- vii. No further expansion or modifications in the plant should be carried out without prior approval of the State Level Environment Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
- viii. The West Bengal Pollution Control Board, who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Level Environment Impact Assessment Authority, West Bengal and also to Regional Office of MoEF&CC, Bhubaneswar.
- ix. The State Level Environment Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
- x. A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations. If any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.
- xi. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective zonal office of the WBPCB. The criteria pollutant levels namely: SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xii. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the SEIAA, West Bengal (<http://environmentwb.gov.in>). This should be advertised within seven days from the date of issue of

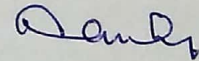
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- the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned.
- xiii. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.
- xiv. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.
- xv. The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Amales Datta, General Manager I/C (LPG), West Bengal State Office
Address	M/s. Indian Oil Corporation Limited. 2, Gariahat Road (South) Kolkata – 700 068
Telephone Number, Fax Number	Phone 033 2414 5526 / 2414-5555
E mail	amalesdatta@indianoil.in
Name of the Environmental Consultant	SV Enviro Labs & Consultants

Yours faithfully,



( Sandipan Mukherjee, IFS )  
Chief Environment Officer &  
Member Secretary, SEIAA

No. 1895 / EN/ T-II-1/071/2017/1(4)

Date : 02 / 08 /2018

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
3. Chief Inspector of Factories, Factories Directorate, 1, K.S. Roy Road, Kolkata – 700 001.
4. Guard file / Record file.

Sd/-  
Chief Environment Officer &  
Member Secretary, SEIAA

**LIST OF TREES PROPOSED FOR PLANTATION**

Sl. No.	BOTANICAL NAME	COMMON NAME	QUANTITY
1.	<i>Cassia fistula</i>	Amaltas	500
2.	<i>Mimusops elengi</i>	Bakul	300
3.	<i>Hollarhena antidysentrica</i>	Kurchi	200
4.	<i>Alstonia scholaris</i>	Chhatim	500
5.	<i>Butea monosperma</i>	Palas	500
6.	<i>Azadirachta indica</i>	Neem	500
7.	<i>Bauhinia variegata</i>	Kanchan	300
8.	<i>Ficus benjamina</i>	Fig Tree	200
9.	<i>Polyalthia longifolia</i>	Debdaru	750
		<b>Total</b>	<b>3750</b>