

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Poura Bhavan, Block 'FD'-415A, 4th Floor, Sector – III,

Salt Lake, Kolkata – 700 106

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Website : www.environmentwb.gov.in

No. 4105 /EN/T-II-1/009/2015

Date : 30 / 12 /2015

To

M/s. Hindustan Petroleum Corporation Ltd.

Paharpur LPG Bottling Plant

P4, Oil Installation Road

Paharpur, Kolkata – 700 088.

SUB. : Environmental Clearance for the proposed LPG bottling plant of capacity 250 TMTA by M/s. Hindustan Petroleum Corporation Ltd. at Plot no-B4, Panagarh Industrial Park of WBIDC, Village-Kota, Block-Aushgram-II, Dist – Burdwan, West Bengal..

Sir,

This has a reference to your application dated 09/02/2015 and subsequent communications for environmental clearance for the proposed LPG bottling plant of capacity 250 TMTA by M/s. Hindustan Petroleum Corporation Ltd. at Plot no-B4, Panagarh Industrial Park of WBIDC, Village-Kota, Block-Aushgram-II, Dist – Burdwan, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. It is noted that the proposed proposal is for new LPG bottling plant of 250 TMTA along with 1 no. 72 head fully automatic Flexi-speed electronic carousels and 3x700 MT mounded storage vessels.

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

- i. Location of the Site – Plot no-B4, Panagarh Industrial Park of WBIDC, Village-Kota, Block-Aushgram-II, Dist – Burdwan, West Bengal.
- ii. Latitude & Longitude: 23°25'54.59" N & 87°30'35.63"E
- iii. Land Area – 75 acres (alloted by WBIDC).
- iv. Greenbelt – 24.75 acres. (33% of land area). The green belt of 15 mtrs. all around the perimeter of the plot to be developed.
- v. Manpower – Operation Phase – 273 persons.
- vi. Water Requirement – 12 KLD (WBIDC supply / Rainwater Harvesting)
- vii. Solid waste – Oil sludge and/or waste water containing oil may generate during the cleaning and maintenance of the cylinders. The applicant shall manage and dispose this waste according to Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008.
- viii. Wastewater – domestic effluent to be treated in septic tank followed by soak pit and waste water generated from washing/ cleaning shall be treated in ETP and recycled. The unit shall maintain zero waste water discharge.
- ix. Power Source – 11 KVA, WBSEDCL
- x. Back up power- DG set: 1 no. 750 KVA & 1 no. 125 KVA.
- xi. Rainwater Harvesting – Total rainwater potential – 15848 KL. 2 Ponds of total storage capacity 5497 KL.

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due

A. Chakraborty

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. 14th 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 PM10, PM2.5, NOX, SOX & hydrocarbon, 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 fire fighting equipments 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 storage tanks shall be followed strictly.
- vi. Personal Protective Equipments 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. Preemployment 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 spillage.
 - c. Venting equipment through vapour recovery system.
- 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 incase of any leakage of gas.
- xiii. Adequate provisions should be made for harvesting rainwater. The unit may develop water 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 7000 trees should be planted in the exclusive tree plantation area consisting of 24.75 acres. Indicative list of species is given at Annexure-I. Green belt of 15 meter width should be developed all around the perimeter of the project plot. 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).
- 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. Sets to be installed for backup power shall be of enclosed type and conform 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.
- xxviii. The hazardous waste shall be stored in separate designated hazardous waste storage facility 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.
- 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 house keeping 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. Atleast 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 project.

- ii. Prior Consent-to-Establish (NOC) for the proposed 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 programmes, educational programmes, drinking water supply, sanitation programme 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.
- 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, SO₂, NO_x (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 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,

Conditions for Environmental Clearance for the proposed LPG bottling plant of capacity 250 TMTA by M/s. Hindustan Petroleum Corporation Ltd. at Plot no-B4, Panagarh Industrial Park of WBIDC, Village-Kota, Block-Aushgram-II, Dist – Burdwan, West Bengal.

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 Wastes (Management, Handling and Transboundary Movement) Rules, 2009, 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. Kalyan Kr. Roy, Sr. Manager LPG Projects
Address	Hindustan Petroleum Corporation Limited Paharpur LPG Bottling Plant P4, Oil Installation Road
Email	kkroy@hpcl.co.in
Telephone Number, Fax Number	Phone no. 033 2439 3345 /2439 1909
Name of the Consultant	M/s. SV ENVIRO LABS & CONSULTANTS.

(S. Mukherjee)
Chief Environment Officer &
Member Secretary, SEIAA

No. 4105 /EN/T-II-1/009/2015/1(5)

Date : 30 / 12 /2015

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Monitoring Cell, Department of Environment, Government of West Bengal.
3. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
4. Chief Inspector of Factories, Factories Directorate, 1, K.S. Roy Road, Kolkata – 700 001.
5. 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>Anthocephalus cadamba</i>	Kadam	250
2.	<i>Lagerstroemia speciosa</i>	Jarul	500
3.	<i>Polyalthia longifolia</i>	Debdaru	1000
4.	<i>Madhuca longifolia</i>	Mahua	500
5.	<i>Mangifera indica</i>	Mango	300
6.	<i>Alstonia scholaris</i>	Chhatim	500
7.	<i>Mimusops elengi</i>	Bakul	750
8.	<i>Syzygium cumini</i>	Jamun	400
9.	<i>Terminalia arjuna</i>	Arjun	300
10.	<i>Delonix regia</i>	Gulmohor	125
11.	<i>Terminalia catappa</i>	Badam	500
12.	<i>Thespesia populnea</i>	Poros	500
13.	<i>Ficus benghalensis</i>	Banyan	25
14.	<i>Dalbergia sissoo</i>	Sisoo	500
15.	<i>Ficus benjamina</i>	Fig Tree	500
16.	<i>Tectona grandis</i>	Teak	300
17.	<i>Ficus religiosa</i>	Ashathwa	50
		Total	7000

only