

F. No. J-11011/221/2015-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

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Dated: 14th February, 2017

To

The Senior Manager
M/s Hindustan Petroleum Corporation Limited (HPCL)
LPG Bottling Plant Haldia, Brindaban Chawak
PO Box No 6 PO Durgachwak
Dist Purba Midnapur Haldia
West Bengal

Sub: Setting up of 3x500 MT mounded LPG storage vessels & bottling capacity (60000 TPA) at Haldia LPG plant, village Brindavan Chak, Tehsil Durgachak, District Purba Medinipur, West Bengal by M/s HPCL.-Environmental Clearance- reg.

Ref: Online Proposal No. IA/WB/IND2/30027/2015 dated 16th July, 2016.

Sir,

This has reference to your online proposal no. IA/WB/IND2/30027/2015 dated 16th July, 2016, along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for Setting up of 3x500 MT mounded LPG storage vessels & bottling capacity (60000 TPA) at Haldia LPG plant, village Brindavan Chak, Tehsil Durgachak, District Purba Medinipur, West Bengal by M/s Hindustan Petroleum Corporation Limited (HPCL). As informed and as per the documents submitted by the Project Proponent (PP), the plot area is 18 acres of which, area earmarked for greenbelt is 6 acres. The cost of the project is Rs. 100 Crore. Out of which, Rs. 1 Crore and Rs. 25 lakhs per annum are earmarked towards capital cost and recurring cost per annum for implementation of EMP. It is reported that no national park/wildlife sanctuary/bio-sphere reserve is located within 10 km distance from the project site. Hoogly river is flowing at a distance 2.5 km. The PP has clarified that no pipeline laying work is involved in this project.



3. All the Isolated Storage & Handling of hazardous chemicals (as per threshold planning quantity indicated in column 3 of schedule 2 & 3 of MSIHC Rules 1989 amended 2000) activities are listed at 6(b) of the Schedule of EIA Notification, 2006 under category 'B'. However, due to applicability of General Condition i.e. location of the project in Critically Polluted Area (Haldia), the proposal is treated as Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
4. The project proposal was considered by the Expert Appraisal Committee (Industry - 2) in its 1st meeting held during 30th November- 1st December, 2015; 13th meeting held during 26th-27th September, 2016 and 15th meeting held during 10th November, 2016. The Project Proponent and the accredited consultant M/s SV Enviro Labs & Consultants, Visakhapatnam, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs) awarded in the 1st meeting held during 30th November-1st December, 2015 for preparation of EIA-EMP report. The TOR letter has been issued vide Ministry's letter of even no. dated 28th December, 2015.
5. Public hearing was exempted as per Section 7(i), III. Stage (3), Para (i)(b) of EIA Notification as the project is located in the notified Industrial area/estate (Haldia).
6. The PP has informed the EAC that the ambient air quality (AAQ) monitoring was carried out at 8 locations during December, 2015 to February 2016. The baseline data indicates the ranges of concentrations as:- PM₁₀ (47.2 µg/m³ to 88.4 µg/m³), PM_{2.5} (22.8 µg/m³ to 44.9 µg/m³), SO₂ (12.7 µg/m³ to 23.8 µg/m³) and NO₂ (17.4 µg/m³ to 32.6 µg/m³). The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
7. The fresh water requirement from ground water source will be 10 m³/day. Effluent generation will be 2 m³/day and treated in the ETP. Treated effluent will be reused for cylinder washing. Domestic effluent generation will be 3.2 m³/day. The EAC has suggested PP to treat the sewage in the micro STP. DG set (1x 750 KVA + 1x 125 KVA) will be installed as standby arrangement. Waste oil from DG set will be sent to authorized re-processor/recycler.
8. Additionally, the PP has submitted the onsite and offsite disaster management plan. Onsite and offsite disaster management plan and detailed plan under ESR to be drawn at the cost of 2.5% of project cost for local development. The EAC has discussed the additional information and found it satisfactory.
9. The EAC, in its 15th meeting held on 10th November, 2016, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.
10. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th



September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- i. Adequate buffer zone around the LPG Marketing Terminal shall be provided, as may be required as per OISD or other statutory requirements.
- ii. Continuous 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 at Bhubaneswar, 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.
- iii. Total fresh water requirement of 10 m³/day will be met from ground water and prior permission shall be obtained from the CGWA/SGWA.
- iv. The company should 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 should be created for oil contaminated and non-oil contaminated streams. During rainy season, the storm water drains should be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond should be conducted.
- v. Necessary approvals from Chief Controller of Explosives must be obtained before commission of project. Requisite On-site and Off-site Disaster Management Plans will be prepared and implemented.
- vi. The company should obtain all requisite clearances for fire safety and explosives and should comply with the stipulation made by the respective authorities.
- vii. Emergency Response Plan should be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill should be conducted once in a month.
- viii. 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.
- ix. Unit should carry out safety audit and report submitted to the Ministry and its Regional Office within six months.
- x. LPG transfer line from refinery to the LPG terminal shall be laid underground with adequate Cathodic protection against External Corrosion and the SCADA system.
- xi. Occupational health surveillance of worker should be done on a regular basis and records maintained as per the Factory Act.
- xii. Green belt should 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 factory premises should be ensured.



- xiii. The Company should 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 for the various activities of the project to conserve fresh water.
- xiv. All the recommendations mentioned in the EMP should be implemented.
- xv. At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner.
- xvi. 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, 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.
- xvii. Zero Liquid Discharge shall be ensured.
- xviii. Continuous online (24 x7) monitoring to be installed for measurement of pollutants. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board, State Government and 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 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 followed.
- 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).

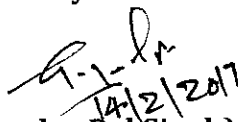


- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vii. Training shall be imparted to all employees on safety and health aspects of 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 also 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 and risk mitigation measures relating to the project shall be implemented.
- ix. 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.
- x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xii. 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.
- xiii. 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.
- xiv. 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.
- xv. 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



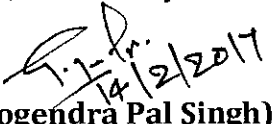
of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

- xvi. 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.
- xvii. The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
13. The above conditions will be enforced, *inter alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Department of Environment, Government of West Bengal, Poura Bhavan, 4th Floor, FD-415/A, Sector-III, Bidhannagar, Kolkata-700106.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharapur, Bhubaneswar - 751023, Odisha.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, West Bengal Pollution Control Board, Paribesh Bhavan, 10A, Block-L.A., Sector 3, Salt Lake City, Kolkata, West Bengal 700098
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bhag, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.


(Yogendra Pal Singh)
Scientist 'D'