

F. No. J-11011/207/2015- IA II (I)
Government of India
Ministry of Environment, Forests and Climate Change
(I.A. Division)

Indira Paryavaran Bhawan
Aliganj, Jorbagh Road,
New Delhi -110003

E-mail: lk.bokolia@nic.in
Telefax : 011-2469 5313
Dated: 18th April, 2016

To,

Shri Lakhpat, Dy. General Manager
M/s Bharat Petroleum Corporation Ltd.
Bharat Bhawan, 4 &6, Currimbhoy Road
Ballard Estate, Mumbai, Maharashtra

E-mail: info@bharatpetroleum.in ; Fax No.- Nil.

Subject: Development of Refrigerated LPG (Propane/Butane) Import, Storage, Bottling and Bulk distribution facilities at Haldia Dock Complex, Haldia Tehsil Kharagpur-I, District East Medinipur, West Bengal by M/s BPCL- Environmental Clearance and CRZ Clearance reg.

Ref. : Your online proposal no. IA/WB/IND2/30096/2015 dated 28th January, 2016.

Sir,

This has reference to your online proposal no. IA/WB/IND2/30096/2015 dated 28th January, 2016 alongwith project documents including Form 1, Prefeasibility Report, Draft Terms of References and EIA/EMP report on the above mentioned subject.

2.0 The Ministry of Environment, Forest and Climate Change has examined your application. It is noted that the proposal is for development of Refrigerated LPG(Propane/Butane) Import, Storage, Bottling and Bulk distribution facilities at Haldia Dock Complex, Haldia Tehsil Kharagpur – I, District East Medinipur, West Bengal. Total plot area is 45 acres. Cost of project is Rs. 694.15 Crore. It is reported that no reserved forest/ protected forest/ Eco-sensitive area/ national park is located within 10 km distance. A small portion of pipeline length at HOJ-3 falls in CRZ-III, CRZ-IVB (Jetty) and CRZ IB (jetty). Following facilities will be created at Jetty and project site:

S.N.	Facility to be created at Jetty	Description
1.	Marine Unloading arms 2 Nos. for Propane & Butane	
2.	Manifold at Jetty	18 in. piping , valves & meters
3.	Skid Mounted Air Compressor cum Dryer	Type: Vert., Cylindrical ID: 1360 mm & Ht: 1500 mm
4	Manifold near jetty Provision for putting up Booster pumps in future in a plot near Jetty	
5	Unloading Pipelines	Insulated LTCS PIPES -18" SCH 30(A333Gr. 6) x 2 no. Length= 7.5 km approx.

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Facilities at Project Site

S.N.	Facility	Description
1	Refrigerated Storage Tanks	2 Nos. for Propane & Butane of capacity 15000 MT each
2	Propane/Butane /LPG Storage Bullet	4 Nos. Of 350 MT Capacity of Mounded Bullet
3	Flash Compressor (2+1) Capacity:	Suction Flow : 7528 m ³ /hr (18.0 Te/hr) each
4	Boil Off Compressor (2+1) Capacity:	Suction Flow : 841 m ³ /hr (2.0 Te/hr) each
5	Flare Unit Type:	Molecular Seal, Derrick No. of Pilot Burner: 3 Total Elevation: 50m Tip Dia.: 16"

Facilities at Dispatch Section

S.N.	Facility	Description
1	Bottling Capacity	1no. 24 /72 Point carousel plant + Provision for 1no. 24 point carousel plant in future
2	Bulk Loading Facility	1 x 8 bay gantry + Provision for 1x 8 bay gantry in future

Offsite & Utility Facilities

S.N.	Facility	Description
1.	Cooling Tower	2 Cell Induced Draft Fan, Cap.: 1000 m ³ /hr
2	Mercaptan Dosing System Considered	
3	Nitrogen Storage System Considered	
4	Flare System Considered	
5	Fire Fighting System Considered	
6	Water	200 KL per day
7	Electricity	9834 KVA

3.0 Water requirement from HAD water supply will be 200 m³/day. Power requirement is 9834 KVA and sourced from WBSEB. Adequate height will be provided to DG set (5500 KVA + 2500 KVA + 500 KVA). Effluent from toilet, canteen and washrooms will be treated in the sewage treatment plant (STP). Treated effluent will be reused for horticulture purpose. Rain water harvesting system will be installed.

4.0 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 is listed at 6(b) of the Schedule of EIA Notification, 2006 under category 'B' and appraised at State level. However, due to applicability of General Condition i.e. location of project in CPA (Haldia), Proposal is treated as Category 'A' project and appraised at Central Level.

5.0 Public Hearing was exempted as per para 7(i) III Stage (3)(i)(b) of EIA Notification, 2006.

6.0 West Bengal State Coastal Zone Management Authority, vide letter 161/EN/T-II-4/015/2015 dated 21st January, 2016 has recommended the said project for CRZ clearance. The pipelines are two number 18" dia approx. and 7.5 Km long each. The activity was found to be permissible under clause 3 (i) (a) and no. 8 – I (i) (b) of CRZ Notification, 2011.

7.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 20th – 21st August, 2015 and 25th-26th February, 2016 respectively. Project Proponent and the EIA Consultant namely PDIL, Sindri have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committees recommended the proposal for environmental clearance and CRZ clearance.

8.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance and CRZ clearance to above project under the provisions of EIA Notification dated 14th September 2006 and CRZ notification, 2011, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS :

- i) *All the recommendations and conditions specified by West Bengal State Coastal Zone Management Authority vide letter no. 161/EN/T-II-4/015/2015 dated 21st January, 2016 shall be complied with.*
- ii) Construction activity shall be carried out strictly according to the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- iii) 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.
- iv) Adequate buffer zone around the storage tankages, as may be required as per OISD or other statutory requirements.
- v) Regular online monitoring of VOC and HC in the work zone area in the plant premises should be carried and data be submitted to Ministry's Regional Office at Bhubaneswar, CPCB and State Pollution Control Board.
- vi) Total fresh water requirement from ground water source shall not exceed 200 m³/day and prior permission should be obtained from the concerned Authority.
- vii) The company shall 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 shall be created for oil contaminated and non-oil contaminated streams. During rainy season, the storm water drains shall be connected to oil water separator and passed through guard pond. Water quality monitoring of guard pond shall be conducted and ensured that monitoring parameters shall not exceed the prescribed standards.
- viii) Domestic effluent shall be treated in the STP. Treated effluent shall be recycled/ reused for gardening and horticulture purpose. No effluent shall be discharged outside the premises.
- ix) Storm water should pass through efficient oil and grease catchers to trap leaked oil and grease
- x) Oil Industry Safety Directorate guidelines regarding safety against fire, spillage, pollution control etc. shall be followed. Company should ensure no oil spillage occur during loading / unloading of petroleum products.

- xi) The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. All the hazardous waste shall be properly treated and disposed of in accordance with the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules 2008 and its subsequent amendments.
- xii) 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.
- xiii) The company shall obtain all requisite clearances for fire safety and explosives and shall comply with the stipulation made by the respective authorities.
- xiv) All storage tanks shall be provided with design features based on applicable OISD standards.
- xv) Emergency Response Plan shall be based on the guidelines prepared by OISD, DGMS and Govt. of India. Mock drill shall be conducted once in a month.
- xvi) Occupational health surveillance of worker shall be done on a regular basis and records maintained as per the Factory Act.
- xvii) At least 10 meter wide thick green belt shall be developed on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xviii) The Company shall 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.
- xix) All the recommendations mentioned in the EMP/DMP shall be implemented.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB), State Government and any other statutory authority.
- ii. No further expansion or modification in the project shall be carried out without prior approval of the Ministry of Environment & Forests. 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 project authorities must strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 2000 as amended subsequently. Prior approvals from Chief Inspectorate of Factories, Chief Controller of Explosives, Fire Safety Inspectorate etc. must be obtained, wherever applicable.
- iv. 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).

- v. A separate Environmental Management Cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- vi. Adequate funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures and shall be used to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government alongwith the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purposes.
- vii. The Regional Office of this Ministry/Central Pollution Control Board/State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to them regularly.
- viii. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body 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 web site of the company by the proponent.
- ix. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM₁₀, PM_{2.5}, SO₂, NO_x, HC (Methane & Non-methane), VOCs (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- x. The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry / CPCB / SPCB shall monitor the stipulated conditions.
- xi. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xii. 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 and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.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.

xiii. 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 commencing the land development work.

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

9.0 The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

10.0 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.


(Lalit Bokolia)
Additional Director

Copy to :-

1. The Secretary, Department of Environment, Govt. of West Bengal, Kolkata, West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, West Bengal Pollution Control Board, Parivesh Bhawan, 10A Block-LA Sector-III, Salt Lake, Kolkata - 700091, West Bengal.
4. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests, A-3, Chandrashekharapur, Bhubaneswar – 751 023, Orissa.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jorbagh Road, New Delhi.
6. Guard File / Record File/ Notice Board.


(Lalit Bokolia)
Additional Director