

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

Pranisampad Bhavan, Block 'LB'-2, 5th Floor, Sector – III,

Salt Lake, Kolkata – 700 106

Telefax No. 033 2335 5246

Website : www.environmentwb.gov.in

No. 1283 / EN/ T-II-1/076/2016

Date : 28 / 05 /2018

To

M/s. Bharat Petroleum Corporation Limited

Bharat Bhavan

4&6, Currimbhoy Road, Ballard Estate

Mumbai – 400 038

Subject : Environmental Clearance for the proposed construction of addition of Ethanol / Biodiesel tankages at Rajbandh TOP, Rajbandh Chatty, NH – 2, Durgapur 713212, Dist – Paschim Bardhaman, West Bengal by M/s Bharat Petroleum Corporation Limited.

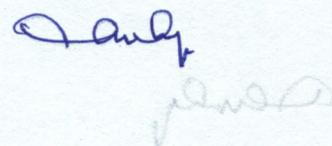
Sir,

This has a reference to your application dated 25/10/2016 and subsequent communications for Environmental Clearance for the proposed construction of addition of Ethanol/Biodiesel tankages at Rajbandh TOP, Rajbandh Chatty, NH – 2, Durgapur 713212, Dist – Paschim Bardhaman, West Bengal.

The proposal has been examined and processed in accordance with EIA Notification, 2006. It is noted that the proposal is for expansion of existing liquid petroleum products storage facility of total storage capacity 16979 KL by installation of additional 2X858 KL capacity Bio-Diesel storage tanks and 1X250 KL capacity Ethanol storage tank. Total storage capacity after expansion will be 18945 KL.

Existing & proposed facilities are as follows:

Existing facilities				
Sl no.	Tank no.	Type of tank	Product stored	Capacity (KL)
01.	T-01	UG	MS	104
02.	T-02	UG	MS	104
03.	T-03	UG	MS	104
04.	T-04	UG	HSD	211
05.	T-05	UG	HSD	211
06.	T-06	UG	Ethanol	49
07.	T-11	AG (Floating Roof)	SKO	927
08.	T-12	AG (Floating Roof)	SKO	927



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09.	T-13	AG (Floating Roof)	MS	1948
10.	T-14	AG (Floating Roof)	MS	1948
11.	T-15	AG (Cone Roof)	HSD	3482
12.	T-16	AG (Cone Roof)	HSD	3482
13.	T-17	AG (Cone Roof)	HSD	3482
Proposed facilities				
Sl no.	Tank no.	Type of tank	Product stored	Capacity (KL)
01.	T-18	AG (Cone Roof)	Bio-Diesel	858
02.	T-19	AG (Cone Roof)	Bio-Diesel	858
03.	T-20	AG (Cone Roof)	Ethanol	250

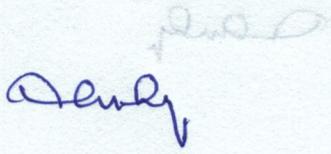
It is noted that the salient features of the project for which Environmental clearance has been considered are as follows :

- i) Location of the Site – Rajbandh Chatty, Durgapur, Dist – Paschim Bardhaman, West Bengal (Lat - 23⁰28'58.76" N, Long - 87⁰23'21.99")
- ii) Total plant area – 14.58 acres (Proposed expansion will be within existing plant area)
- iii) Greenbelt – 33% of the land area (already existing).
- iv) Additional storage capacity – 2x858 KL capacity Bio-Diesel Storage Tanks & 1X 250 KL capacity Ethanol Storage Tank.
- v) Water Requirement – 03 KLD (existing-bore well)
- vi) Back-up Power – 1x100 KVA+1x250 KVA+1x160 KVA+1X150KVA Captive DG sets (existing) & 1x250 KVA+1x160 KVA Captive DG sets (Proposed for expansion)

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. 14th September, 2006 of Ministry of Environment & Forests, GOI, subject to strict compliance of terms and conditions as mentioned below.

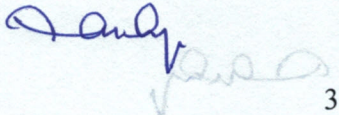
A. SPECIFIC CONDITIONS:

- i. The Applicant shall measures ambient air quality for the parameters PM₁₀, PM_{2.5}, NO_x, SO_x, 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.



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- 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 installed.
- 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 tanks 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 and 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. 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 (6200 KL per annum, as proposed) should be used for plantation, firefighting, washing and cleaning etc. Recharging of Groundwater is not permitted.
- xiii. Green belt shall be developed within the plant premises. At least 33% of the area should be kept for green belt development. Selection of appropriate species for the plantation program may be done in consultation with DFO /West Bengal Biodiversity Board. 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.
- xiv. 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).

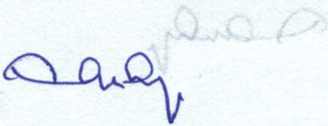


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- xv. The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution. D. G. Sets to be installed for backup power shall be of enclosed type and confirm to prescribe standards under EPA rules.
- xvi. 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.
- xvii. 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. All hazardous waste to be disposed off as per provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- xviii. Design of additional storage tanks shall be done in accordance with the applicable Oil Industry Safety Directorate (OISD) norms and BS standards.
- xix. 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 applicable OISD norms.
- xx. 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.
- xxi. Fire Water Storage Tanks shall be provided and it shall be adequate to meet the requirements as per the applicable OISD norms. 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.
- xxii. Lightning protection devices shall be provided for all the storage tanks.
- xxiii. High temperature and high pressure alarm with auto-activation of water sprinklers as well as safety relief valve shall be provided.
- xxiv. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.
- xxv. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.
- xxvi. The Corporate Social Responsibility Plan with specific financial commitment should be implemented for the proposed project. At least 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.
- 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.
- 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 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

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- 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 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. G.C. Ganguly, Project Leader
Address	Bharat Bhavan, 31, Prince Gulam Md. Shah Road, Golf Green, P.O. Box No. 16201 & 16204, Kolkata -700 095
Telephone Number, Fax Number	Telephone - 033-2429 3050 / 3051 Fax – 033 2429 3195/73/53/3044
E mail	gcganguly2016.bpcl@gmail.com
Name of the Environmental Consultant	M/s. ABC Techno Labs India Private Limited.

Yours faithfully,

Sd/-

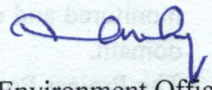
(Sandipan Mukherjee, IFS)
Chief Environment Officer &
Member Secretary, SEIAA

No. 1283 / EN/ T-II-1/076/2016/1(4)

Date : 28 / 05 /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.


Chief Environment Officer &
Member Secretary, SEIAA