

**Half Yearly Compliance Report
2024
01 Jun(01 Oct - 31 Mar)**

Acknowledgment

Proposal Name	100 KL/D Ligno-cellulosic 2G Ethanol Plant at Village Baulsingha, Tehsil Bhatli, District Bargarh (Odisha) by M/s Bharat Petroleum Corporation Ltd.		
Name of Entity / Corporate Office	M/s. Bharat Petroleum Corporation Limited (BPCL)		
Village(s)	N/A		
District	BARGARH		
Proposal No.	IA/OR/IND2/65843/2017	Category	Industrial Projects - 2
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	ODISHA	Entity's PAN	NA
MoEF File No.	IA-J-11011/351/2017-IA-II (I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024
Remarks (if any)
Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office M/s. Bharat Petroleum Corporation Limited (BPCL)

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	58.44	58.44
Forest	0	0
Others	0	0
Total	58.44	58.44

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Fuel Grade Ethanol	Kilo liters per Day (KLD)	N/A	100	0	

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	Ethanol shall be used exclusively for fuel blending only.
PPs Submission: Agreed to Comply Plant is under construction. After commissioning, Ethanol shall be used exclusively for fuel blending only.		Date: 23/07/2024
2	Statutory compliance	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
PPs Submission: Being Complied "Consent to Establish (CTE) has been obtained from State Pollution Control Board, Odisha vide Letter No. 11750 dtd. 29th September 2018. Consent to Operate shall be applied for and obtained before commissioning of plant."		Date: 23/07/2024
3	WATER QUALITY MONITORING AND PRESERVATION	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.
PPs Submission: Agreed to Comply Plant is designed for Zero Liquid discharge. Same shall be ensured after commissioning of plant.		Date: 23/07/2024
4	WASTE MANAGEMENT	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
PPs Submission: Agreed to Comply Noted, the condition shall be complied.		Date: 23/07/2024
5	AIR QUALITY MONITORING AND PRESERVATION	To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
PPs Submission: Being Complied This has been considered in Plant design. The conditions shall be complied		Date: 23/07/2024
6	WATER QUALITY MONITORING AND PRESERVATION	Total fresh water requirement shall not exceed 3192 cum/day, proposed to be met from Bargarh Canal.
PPs Submission: Agreed to Comply The conditions shall be adhered.		Date: 23/07/2024
7	WATER QUALITY MONITORING AND PRESERVATION	Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through a separate conveyance system.
PPs Submission: Agreed to Comply These conditions have been taken into consideration at the design stage and shall be complied.		Date: 23/07/2024

8	Statutory compliance	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
PPs Submission: Agreed to Comply The MSIHC Rules, 1989 and MVA, 1989 shall be complied.		Date: 23/07/2024
9	WASTE MANAGEMENT	"The company shall undertake waste minimization measures as below:- (a) Metering and control of quantities of active ingredients to minimize waste. (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation"
PPs Submission: Agreed to Comply Waste minimization measures are being implemented in plant design. The conditions shall be complied.		Date: 23/07/2024
10	GREENBELT	The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
PPs Submission: Agreed to Comply Due to space constraint inside the plot area, around 11 acres (-16 Per.) of green belt is proposed to be developed inside the project area while remaining green belt of around 12 acres (-17 Per.) is proposed to be developed at location identified by the District Revenue officials and Forest Department. Application for amendment of EC is being submitted to MoEFandCC.		Date: 23/07/2024
11	Statutory compliance	All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.
PPs Submission: Agreed to Comply "Noted. All the commitments made during public hearing shall be satisfactorily implemented."		Date: 23/07/2024
12	Corporate Environmental Responsibility	At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and the details along with time bound action plan shall be submitted to the Ministry's Regional Office.
PPs Submission: Agreed to Comply "Noted. Following CER activity completed: 1 Construction of Crematorium Platform and Other Facilities at Pipalmunda Village, Bargarh District has been completed along with construction of other facilities such as digging of tube well and installation of solar light. Funds for following CER activities has been deposited with District Planning and Monitoring Cell (DPMU), Bargarh: 1 Construction of additional class rooms, Boys/Girls toilets, boundary wall in the Primary School and Solar Street lights at Baulsingha village, Bargarh District. 2 Supply and Installation of Solar Street lights in the nearby Villages namely Tejagola and Raisobha. "		Date: 23/07/2024
13	AIR QUALITY MONITORING AND PRESERVATION	For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.

PPs Submission: Agreed to Comply The conditions are being implemented in plant design and shall be complied.		Date: 23/07/2024
14	Human Health Environment	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
PPs Submission: Agreed to Comply "Adequate arrangement for protection of fire hazards is being implemented in plant design as per norms. The conditions shall be complied."		Date: 23/07/2024
15	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
PPs Submission: Agreed to Comply Being complied.		Date: 23/07/2024
16	Human Health Environment	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
PPs Submission: Agreed to Comply "Adequate parking space is under development. The conditions shall be complied."		Date: 23/07/2024
17	AIR QUALITY MONITORING AND PRESERVATION	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
PPs Submission: Agreed to Comply The conditions shall be complied.		Date: 23/07/2024
18	Statutory compliance	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
PPs Submission: Agreed to Comply "Continuous online monitoring systems for stack emissions have been provided in design and shall be implemented. This is a Zero Liquid Discharge plant hence no effluent shall be discharged from premises. The conditions shall be complied. "		Date: 23/07/2024
19	AIR QUALITY MONITORING AND PRESERVATION	CO2 generated from the process shall be bottled/made solid ice and sold to authorized vendors.
PPs Submission: Agreed to Comply CO2 Liquefaction Plant for cleaning and liquefaction of CO2 generated during process is being installed.		Date: 23/07/2024

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The project authorities must strictly adhere to the stipulations

		made by the State pollution Control Board, Central Pollution Control Board, State Government and any other statutory authority.
PPs Submission: Agreed to Comply Noted, the conditions shall be complied.		Date: 23/07/2024
2	Statutory compliance	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.
PPs Submission: Agreed to Comply Noted, the conditions shall be complied.		Date: 23/07/2024
3	AIR QUALITY MONITORING AND PRESERVATION	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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
PPs Submission: Agreed to Comply "Noted. Ambient Air quality monitoring shall be done in consultation with SPCB.		Date: 23/07/2024
4	AIR QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Agreed to Comply The conditions shall be complied.		Date: 23/07/2024
5	Noise Monitoring & Prevention	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).
PPs Submission: Agreed to Comply "Noted. The conditions shall be complied. "		Date: 23/07/2024
6	WATER QUALITY MONITORING AND PRESERVATION	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.
PPs Submission: Agreed to Comply Rainwater Harvesting structure has been considered in the plant design.		Date: 23/07/2024
7	Human Health Environment	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.
PPs Submission: Agreed to Comply The conditions being complied and shall be ensured during operation phase also.		Date: 23/07/2024
8	MISCELLANEOUS	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.
PPs Submission: Agreed to Comply The condition shall be complied.		Date: 23/07/2024
9	Corporate Environmental Responsibility	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.
PPs Submission: Agreed to Comply "Noted. All relevant measures/ESC activities shall be undertaken as per company guidelines.		Date: 23/07/2024
10	MISCELLANEOUS	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
PPs Submission: Agreed to Comply "Noted. Eco-developmental and community welfare measures shall be undertaken as per company guidelines. "		Date: 23/07/2024
11	MISCELLANEOUS	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.
PPs Submission: Agreed to Comply "Noted. Sufficient funds has been earmarked to implement Environment Management Plan. The conditions shall be complied. "		Date: 23/07/2024
12	MISCELLANEOUS	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZillaParishad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
PPs Submission: Complied EC has been published on BPCL Corporate Website. https://www.bharatpetroleum.com/Sustainability/Environmental-Clearance.aspx		Date: 23/07/2024
13	Statutory compliance	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.
PPs Submission: Being Complied "EC and six-monthly Compliance Reports has been published on BPCL Corporate Website. Copy of the six monthly Compliance Reports has been sent to SPCB, Regional office and Regional Office of the Ministry. "		Date: 23/07/2024
14	Statutory compliance	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.
PPs Submission: Agreed to Comply "Noted. Form-V shall be submitted annually after plant commissioning."		Date: 23/07/2024
15	MISCELLANEOUS	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.
PPs Submission: Complied " Subsequent to obtaining Environment Clearance from MoEFandCC for project, the same was published in two newspapers (Times of India in English and Prameya in Odia) on 23rd August 2018. Copy of the advertisement was forwarded to Regional Office of the Ministry. "		Date: 23/07/2024
16	MISCELLANEOUS	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.
PPs Submission: Agreed to Comply "Noted. The condition shall be complied."		Date: 23/07/2024
Visit Remarks		
Last Site Visit Report Date:		N/A
Additional Remarks:		
Note: This acknowledgement is as per the details submitted by project proponent. In no way is this document to be considered as conclusion on any action on the compliance of the project. This is strictly for the project proponent's reference purpose.		