

**Compliance Report for proposed expansion of 100 KL/D Second Generation (2G) Bio-Ethanol Plant by additional 100 KL/D Grain based First Generation (1G) Ethanol plant at Baulsingha Village, District Bargarh, Odisha by M/s Bharat Petroleum Corporation Ltd.**

EC Identification No.: EC21A060OR123573 dated 24<sup>th</sup> November 2021

As per the stipulations given in the Environmental Clearance the detailed compliance status is given below:

**TERMS AND CONDITIONS**

SR. NO.	TERMS AND CONDITION	STATUS as on 1 <sup>st</sup> December 2024 (April'24-September'24)
i.	As per OM dated 16th June, 2021, project falls in category B2 and the proposed capacity of 100 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.	Noted. After commissioning, Ethanol shall be used exclusively for fuel blending only. The conditions shall be complied.
ii.	The company shall 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.	Noted. The condition shall be complied.
iii.	The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.	Noted. Plant is designed for Zero Liquid discharge. Same shall be ensured after commissioning of plant.
iv.	Total freshwater requirement shall not exceed 395 KLPD will be met from Bargarh canal. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time. No ground water recharge shall be permitted within the premises.	Noted. The conditions shall be adhered.
v.	The spent wash shall be concentrated and dried to form DDGS to be used as cattle feed.	Noted. Spent wash concentration to DDGS has been considered in the plant design. The conditions shall be adhered.



vi.	CO2 generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.	Noted. CO2 Liquefaction Plant for cleaning & liquefaction of CO2 generated during process is being installed.
vii.	Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.	Noted. The conditions shall be complied.
viii.	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	Noted. The conditions being complied and shall be ensured during operation phase also.
ix.	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.	Noted. Adequate arrangement for protection of fire hazards is being implemented in plant design as per norms. The conditions shall be complied.
x.	Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.	Noted. The condition shall be complied.
xi.	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.	Noted. Waste minimization measures are being implemented in plant design. The conditions shall be complied.
xii.	The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.	Due to space constraint inside the plot area, around 11 acres (~16%) of green belt is proposed to be developed inside the project area while remaining green belt of around 12 acres (~17%) is proposed to be developed at location identified by the District Revenue officials and Forest Department. Application for amendment of EC is submitted to MoEF&CC.
xiii.	As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding	Noted.



	the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan to be completed within time as proposed.	Corporate Environment Responsibility (CER) activities being done as per company guidelines. The condition shall be complied.
xiv.	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.	Noted. The condition shall be complied.
xv.	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	Noted. The condition shall be complied.
xvi.	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.	Noted. 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.
xvii.	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Noted. The condition shall be complied.

### **GENERIC CONDITIONS**

<b>SR. NO.</b>	<b>GENERAL CONDITION</b>	<b>STATUS as on 1<sup>st</sup> December 2024 (April'24-September'24)</b>
i.	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA,	Noted. The condition shall be complied.



	as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	
ii.	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	Noted. LED has been considered for lighting purpose in the premises. The condition shall be complied.
iii.	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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Noted. The conditions shall be complied.
iv.	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Noted. All relevant measures/ESC activities shall be undertaken as per company guidelines.
v.	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.	Noted. The conditions shall be complied.
vi.	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.	Noted. A copy of the clearance letter was sent to Panchayat office, Zilla Parishad as required. EC Letter has been published on BPCL Corporate Website. <a href="https://www.bharatpetroleum.com/Sustainability/Environmental-Clearance.aspx">https://www.bharatpetroleum.com/Sustainability/Environmental-Clearance.aspx</a>



vii.	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 email) 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.	Noted. EC and six-monthly Compliance Reports has been published on BPCL Corporate Website.  Copy of the six-monthly Compliance Report has been sent to SPCB, Regional office and Regional Office of the Ministry.
viii.	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.	Noted.  Form-V shall be submitted annually after plant commissioning.
ix.	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 and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . 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.	Subsequent to obtaining Environment Clearance from MoEF&CC for project, the same was published in two local newspapers: Times of India – Bhubaneswar (English) and Prameya – Odisha (Odia).  Copy of the advertisement was forwarded to Regional Office of the Ministry.
x.	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.	Noted. The condition shall be complied.
xi.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.

*Dandekar*