Compliance Report for 100 KL/D Ligno-cellulosic 2G Ethanol Plant at Village Baulsingha, Tehsil Bhatli, District Bargarh (Odisha) by M/s Bharat Petroleum Corporation Ltd.

EC letter No.: F. No. IA-J-11011/351/2017-IA-II (I) dated 10th August, 2018

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

TERMS AND CONDITIONS

SR.	TERMS AND CONDITION	STATUS AS ON 1st JUNE 2022
NO. i.		N 1
1.	Ethanol shall be used exclusively for fuel	Noted.
	blending only.	Plant is under construction. After
		commissioning, Ethanol shall be used exclusively for fuel blending only.
ii.	Consent to Establish Operate for the project shall	Noted.
11.	Consent to Establish/Operate for the project shall be obtained from the State Pollution Control	Consent to Establish (CTE) has been
	Board as required under the Air (Prevention and	obtained from State Pollution Control Board,
	Control of Pollution) Act, 1981 and the Water	Odisha vide Letter No. 11750 dtd. 29th
	(Prevention and Control of Pollution) Act, 1974.	September 2018.
	(Trevention and Control of Foliation) Act, 1974.	Consent to Operate shall be applied for and
		obtained before commissioning of plant.
iii.	As already committed by the project proponent,	Noted.
111.	Zero Liquid Discharge shall be ensured and no	Plant is designed for Zero Liquid discharge.
	waste/treated water shall be discharged outside	Same shall be ensured after commissioning
	the premises.	of plant.
iv.	Necessary authorization required under the	Noted.
	Hazardous and Other Wastes (Management and	No hazardous waste shall be generated from
	Trans-Boundary Movement) Rules, 2016, Solid	Plant.
	Waste Management Rules, 2016 shall be	Necessary authorizations required for solid
	obtained and the provisions contained in the	waste, if any, shall be obtained.
	Rules shall be strictly adhered to.	·
v.	To control source and the fugitive emissions,	Noted.
	suitable pollution control devices shall be	This has been considered in Plant design. The
	installed to meet the prescribed norms and/or the	conditions shall be complied.
	NAAQS. The gaseous emissions shall be	
	dispersed through stack of adequate height as per	
	CPCB/SPCB guidelines.	
vi.	Total fresh water requirement shall not exceed	Noted.
	3192 cum/day, proposed to be met from Bargarh	The plant is under construction.
	Canal.	The conditions shall be adhered.
vii.	Process effluent/any wastewater shall not be	Noted.
	allowed to mix with storm water. Storm water	Plant is under construction. These conditions
	drain shall be passed through a separate	have been taken into consideration at the
	conveyance system.	design stage and shall be implemented.

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viii.	The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and	Noted. The MSIHC Rules, 1989 and MVA, 1989
	import of Hazardous Chemicals (MSIHC) Rules,	shall be complied.
	1989 as amended time to time. All transportation	shan so complica.
	of Hazardous Chemicals shall be as per the Motor	
	Vehicle Act (MVA), 1989.	
ix.	The company shall undertake waste minimization	Noted.
	measures as below:-	Waste minimization measures are being
	(a) Metering and control of quantities of active	implemented in plant design. The conditions
	ingredients to minimize waste.	shall be complied.
	(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
Х.	The green belt of 5-10 m width shall be developed in more than 33% of the total project error mainly	Noted.
	in more than 33% of the total project area, mainly along the plant periphery, in downward wind	Green belt shall be developed as per guidelines.
	direction, and along road sides etc. Selection of	guidennes.
	plant species shall be as per the CPCB guidelines	
	in consultation with the State Forest Department.	
xi.	All the commitments made regarding issues	Noted.
	raised during the public hearing/ consultation	All the commitments made during public
	meeting shall be satisfactorily implemented.	hearing shall be satisfactorily implemented.
xii.	At least 1% of the total project cost shall be	Noted.
	allocated for Corporate Environment	
	Responsibility (CER) and the details along with	1% of the total project cost has been allocated
	time bound action plan shall be submitted to the	for Corporate Environment Responsibility
	Ministry's Regional Office.	(CER). Plant is under construction.
		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

xiii.	For the DG sets, emission limits and the stack	Primary School and Solar Street lights at Baulsingha village, Bargarh District. 2 Supply & Installation of Solar Street lights in the nearby Villages namely Tejagola and Raisobha. Noted.
XIII.	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.	The conditions are being implemented in plant design and shall be complied.
xiv.	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.
XV.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Noted. Being complied.
xvi.	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.	Noted. Adequate parking space is under development. The conditions shall be complied. Noted.
xvii.	Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.	The conditions shall be complied.
xviii.	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.
xix.	CO ₂ generated from the process shall be bottled/made solid ice and sold to authorized vendors.	Noted. The conditions shall be complied.

GENERIC CONDITIONS

SR. NO.	GENERAL CONDITION	STATUS AS ON 1 st JUNE 2022
i.	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.	

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.	Noted.
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 station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Noted. Ambient Air quality monitoring shall be done in consultation with SPCB.
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.	Noted. The conditions shall be complied.
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).	Noted. The conditions shall be complied.
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.	Noted. Rain Water harvesting systems have been considered in plant design and shall be implemented.
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.	Noted. Being complied.
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	Noted. The condition shall be complied.

ix.	the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. The company shall undertake all relevant	Noted.
IX.	measures for improving the socio-economic conditions of the surrounding area. ESC activities shall be undertaken by involving local villages and administration.	All relevant measures/ESC activities shall be undertaken as per company guidelines.
х.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Noted. Eco-developmental & community welfare measures shall be undertaken as per company guidelines.
xi.	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. Sufficient funds has been earmarked to implement Environment Management Plan. The conditions shall be complied.
xii.	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.	EC has been published on BPCL Corporate Website. https://www.bharatpetroleum.com/Sustainability/Environmental-Clearance.aspx
xiii.	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	Noted. EC and six monthly Compliance Report for June/December 2019, June/December 2020 and June/December 2021 has been published on BPCL Corporate Website.
	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.	Copy of the six monthly Compliance Report for June/December 2019, June/December 2020 and June/December 2021 has been sent to SPCB, Regional office and Regional Office of the Ministry.
xiv.	The environmental statement for each financial	The condition shall be complied. Noted.
AIV.	year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the	The plant is under construction.

	Environment (Protection) Rules, 1986, as	Form-V shall be submitted annually after
	amended subsequently, shall also be put on the	plant commissioning.
	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.	
XV.	The project proponent shall inform the public that	Complied.
	the project has been accorded environmental	
	clearance by the Ministry and copies of the	Subsequent to obtaining Environment
	clearance letter are available with the	Clearance from MoEF&CC for project, the
	SPCB/Committee and may also be seen at	same was published in two newspapers
	Website of the Ministry at http://moef.nic.in.This	(Times of India in English & Prameya in
	shall be advertised within seven days from the	Odia) on 23 rd August 2018.
	date of issue of the clearance letter, at least in two	
	local newspapers that are widely circulated in the	Copy of the advertisement was forwarded to
	region of which one shall be in the vernacular	Regional Office of the Ministry.
	language of the locality concerned and a copy of	
	the same shall be forwarded to the concerned	
	Regional Office of the Ministry.	
xvi.	The project authorities shall inform the Regional	Noted.
	Office as well as the Ministry, the date of financial	Plant under construction.
	closure and final approval of the project by the	
	concerned authorities and the date of start of the	
	project.	