



KR.PETCHEM.PP.PROJECT

12.02.2025

To

The Additional Principal Chief conservator of Forests (C)  
Ministry of Environment, Forest & Climate Change  
4th Floor, E&F Wings, Kendriya sadan, Koramangala, Bangalore-560 003

Dear Sir,

**Sub: Submission of Project documents and Half yearly compliance report - Environmental Clearance issued by the Ministry of Environment, Forests and Climate Change (MoEF & CC)**

**Ref:** EC Identification No. EC23A2101KL5801408A, File No. IA-J-11011/552/2017-IA II (I) dated 11/07/2023 granting environmental clearance for the Project "Expansion of Kochi Refinery Complex by Manufacturing Petrochemical Products {Polypropylene (PP)} at Village-Puthencruz, Ambalamugal, Ernakulam, Kerala-682302 by Bharat Petroleum Corporation Limited (BPCL)"

Please find the enclosed the compliance report on the various conditions laid down by MoEF &CC, pertaining to the half year period from **1<sup>st</sup> April 2024 to 30 September 2024** for the Project mentioned in above reference.

Thanking you

Very truly yours

For BPCL Kochi Refinery

**Shubham Khatri**

**Chief Manager (Project Petchem Process)**

Encl: 1.Six Monthly Compliance Report

CC:

1. The Member Secretary  
Central Pollution Control Board  
Parivesh Bhawan  
East Arjun Nagar  
Delhi - 110 032

2. The Member Secretary  
Kerala State Pollution Control Board  
Plamoodu Junction  
Pattom Palace  
Thiruvananthapuram - 695 004

पोस्ट बैग नं: 2, अम्बलमुगल - 682 302, एरणाकुलम ज़िला, केरल,<sup>1</sup> दूरभाष: 0484 - 2722061 - 69 फैक्स: 0484 - 2720961 / 2721094  
पंजीकृत कार्यालय: भारत भवन, 4 & 6, क्रीमभाय रोड, बेलार्ड इस्टेट, पी. बी. नं. 688 मुंबई - 400 001

**Half Yearly Compliance Report**  
**Time period 1st Apr'24 to 31st Sep'24**  
**Dated 11.02.2025**

<b>Proposal Name</b>	Expansion of Kochi Refinery Complex by manufacturing Petrochemical products (Polypropylene (PP)) at village Puthencruz, District Ernakulam (Kerala) by M/s Bharat Petroleum Corporation Ltd Environmental Clearance reg.		
<b>Name of Entity / Corporate Office</b>	BHARAT PETROLEUM CORPORATION LTD.		
<b>Village(s)</b>	PUTHENCRUZ		
<b>District</b>	ERNAKULAM		
<b>Proposal No.</b>	IA/KL/IND2/433326/2023	<b>Category</b>	Industrial Projects - 2
<b>Plot / Survey / Khasra No.</b>	Block No.37, Survey No.205,Puthencruz,Kunnathunad, Ernakulam, Kerala-682302	<b>Sub-District</b>	Kunnathunad
<b>State</b>	KERALA	<b>Entity's PAN</b>	NA
<b>MoEF File No.</b>	J-11011/552/2017-IA II (I)	<b>Entity name as per PAN</b>	NA

**Details of Production and Project Area**

**Name of Entity / Corporate Office**      BHARAT PETROLEUM CORPORATION LTD.

**Production Capacity**

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Polypropylene	Tons per Annum (TPA)	N/A	400000	0	

**Conditions**

**Specific Conditions**

Sr.No.	Condition Type	Condition Details
1	GREENBELT	The green belt of 5-10m width shall be developed in more than 33 percentage 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:** Same will be complied. Around 1000 trees planted along the west side of PP Project plot area

Date:  
11/02/2025

2	Statutory compliance	Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and Solid waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
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PPs Submission: Same will be complied.		Date: 11/02/2025										
3	WASTE MANAGEMENT	Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.										
PPs Submission: Same will be complied. All necessary precautions will be incorporated for storage and transfer of hazardous chemicals.		Date: 11/02/2025										
4	WASTE MANAGEMENT	Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic and evaporation salt shall be disposed-off to the TSDF. The ash from boiler shall be sold to brick manufacturers/cement industry.										
PPs Submission: Same will be complied. Organic residues and spent carbon are not expected to be generated in the complex. ETP sludge, Inorganic waste will be disposed-off to nearby TSDF identified for the purpose. Ash generation is not expected as no boilers are proposed in the Project.		Date: 11/02/2025										
5	Corporate Environmental Responsibility	At least 1 percentage of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry Regional Office.										
PPs Submission: Same will be complied.		Date: 11/02/2025										
<p>Corporate Environment Responsibility (CER) associated with Poly Propylene is planned for next 5 years and Rs 38.41 crores (INR) shall be spent. The budget plan is given below.</p> <table><tr><th>2024-25</th><th>2025-26</th><th>2026-27</th><th>2027-28</th><th>2028-29</th></tr><tr><td>Rs 2 Cr</td><td>Rs 10 Cr</td><td>Rs 15 Cr</td><td>Rs 5 Cr</td><td>Rs 6.41 Cr</td></tr></table> <p>CER shall be implemented in Ernakulam District, neighboring the Kochi Refinery and its other facilities as Shore Tank Farm, Stand Alone Water Supply Scheme and pipelines.</p> <p>Key Areas of Implementation are mentioned below</p> <ul style="list-style-type: none"><li>Public infrastructure development as roads and street lighting</li><li>Health, Hygiene</li><li>Education &amp; Skill Development</li><li>Water Management &amp; Drinking Water Schemes</li><li>Community Development</li><li>Assistance to farming sector</li></ul>			2024-25	2025-26	2026-27	2027-28	2028-29	Rs 2 Cr	Rs 10 Cr	Rs 15 Cr	Rs 5 Cr	Rs 6.41 Cr
2024-25	2025-26	2026-27	2027-28	2028-29								
Rs 2 Cr	Rs 10 Cr	Rs 15 Cr	Rs 5 Cr	Rs 6.41 Cr								
6	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms										

<b>PPs Submission:</b> Same will be complied			Date: 11/02/2025
7	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.	
<b>PPs Submission:</b> Same will be complied Application already submitted for Consent to establish to Kerala State Pollution Control Board.			Date: 11/02/2025
8	WASTE MANAGEMENT	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.	
<b>PPs Submission:</b> Same will be complied.			Date: 11/02/2025
9	WATER QUALITY MONITORING AND PRESERVATION	No additional treated effluent will be discharged to the nearby water body.	
<b>PPs Submission:</b> Same will be complied. Effluent will be routed to ETP-5 & after treatment, same shall be recycled to RODM plant within refinery.			Date: 11/02/2025
10	Statutory compliance	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.	
<b>PPs Submission:</b> same will be complied			Date: 11/02/2025
11	Statutory compliance	To control source and the fugitive emissions, suitable pollution control devices shall be installed with different stacks to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stacks of adequate height as per CPCB/SPCB guidelines	
<b>PPs Submission:</b> Same will be complied. No new stack is envisaged in this project.			Date: 11/02/2025
12	WATER QUALITY MONITORING AND PRESERVATION	Total fresh water requirement shall not exceed 7800 cum/day to be met from Periyar River. Necessary permission this regard shall be obtained from the concerned regulatory authority.	

<b>PPs Submission:</b> Complied Approval already obtained from Kerala State Irrigation department		Date: 11/02/2025
13	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 guard pond.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
14	AIR QUALITY MONITORING AND PRESERVATION	Regular VOC monitoring to be done at vulnerable points.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
15	Statutory compliance	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.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
16	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.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
17	WASTE MANAGEMENT	The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio-remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.
<b>PPs Submission:</b> Complied Oily sludge generation is not expected from the Project.		Date: 11/02/2025
18	Statutory compliance	Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEFCC. Outcome from the report to be implemented for conservation scheme.
<b>PPs Submission:</b> Same will be complied.		Date: 11/02/2025
19	WATER QUALITY MONITORING AND PRESERVATION	Oil catchers/oil traps shall be provided at all possible locations in rain/storm water drainage system inside the factory premises.

<b>PPs Submission:</b> Same will be complied OIL Catcher will be provided before retention pond to meet the requirement		Date: 11/02/2025
20	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. c) Use of automated filling to minimize spillage. d) Use of Close Feed system into batch reactors. e) Venting equipment through vapor recovery system. f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
21	AIR QUALITY MONITORING AND PRESERVATION	Continuous online (24*7) 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. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.
<b>PPs Submission:</b> Same will be complied.No new stack is envisaged in this project		Date: 11/02/2025
22	Statutory compliance	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
<b>PPs Submission:</b> Same will be complied.The existing practice on Occupational Health Surveillance in the refinery shall be extended for this Project		Date: 11/02/2025
23	Statutory compliance	The National Emission Standards for Petroleum Oil Refinery issued by the Ministry vide G.S.R 186(E) dated 18th March, 2008 and G.S.R 595(E) dated 21st August, 2009 as amended from time to time shall be followed.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
24	Statutory compliance	The National Emission Standards for Petrochemical (Basic and Intermediates) issued by the Ministry vide G.S.R. 820(E) dated 9th November, 2012 as amended time to time shall be followed.
<b>PPs Submission:</b> Same will be complied		Date: 11/02/2025
<b>General Conditions</b>		
Sr.No.	Condition Type	Condition Details
1	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
<b>PPs Submission:</b> Same will be complied		<b>Date:</b> 11/02/2025
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.
<b>PPs Submission:</b> Same will be complied		<b>Date:</b> 11/02/2025
3	Statutory compliance	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).
<b>PPs Submission:</b> Same will be complied		<b>Date:</b> 11/02/2025
4	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.
<b>PPs Submission:</b> Same will be complied		<b>Date:</b> 11/02/2025
5	Corporate Environmental Responsibility	The Company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
<b>PPs Submission:</b> Same will be complied		<b>Date:</b> 11/02/2025
6	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 on handling of chemicals shall be imparted.
<b>PPs Submission:</b> Same will be complied. Already being practiced in existing refinery, which will be extended to the new facility.		<b>Date:</b> 11/02/2025
7	Statutory compliance	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.
<b>PPs Submission:</b> Same will be complied		<b>Date:</b>

11/02/2025		
8	Statutory compliance	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 been seen at Website of the Ministry at <a href="http://moef.nic.in">http://moef.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.
PPs Submission: Complied.		Date: 11/02/2025
9	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: Same will be complied Ground water recharge type rainwater harvesting pit has been envisaged and it shall be provided		Date: 11/02/2025
10	Statutory compliance	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: Same will be complied.		Date: 11/02/2025
11	Statutory compliance	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: Same will be complied		Date: 11/02/2025
12	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 MoEFCC, 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: Same will be complied.		Date: 11/02/2025
13	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 MoEFCC by e-mail.
PPs Submission: Same will be complied		Date: 11/02/2025
14	Statutory compliance	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: Same will be complied		Date: 11/02/2025
15	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: Same will be complied		Date: 11/02/2025
16	Statutory compliance	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.
PPs Submission: Complied.		Date: 11/02/2025
<p style="text-align: center;"><b>Visit Remarks</b></p>		
Last Site Visit Report Date:		N/A
Additional Remarks:		
<p><b>Note:</b> 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.</p>		