



KR.HSE.ENV.05. HSSE.HECCR/01/2025/ EC No. J-11011/78/96-IA-II
30.06.2026

To

The Additional Principal Chief conservator of Forests (C)
Ministry of Environment, Forest & Climate Change
4th Floor, E&F Wings, Kendriya sadan, Koramangala
Bangalore-560 034

Dear Sir,

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

Ref: EC No. J-11011/78/96-IA-II dated. 05.03.1997 issued for the Project "Installation of Diesel Hydro De-Sulphurisation (DHDS) project M/s Bharat Petroleum Corporation Ltd - Kochi Refinery (Formerly Cochin Refineries Ltd)".

Please find enclosed the compliance reports on the various conditions laid down by MoEF & CC, pertaining to the half year period from **1st October 2025 to 31st March 2026** for the said project.

Thanking you,

Very truly yours

For BPCL Kochi Refinery

Suresh K S

Dy. General Manager (HSE - Environment)

Encl: 1. Six Monthly Compliance Report
2. Monitoring Reports
3. Stack Emission Reports

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 जिला, केरल, दूरभाष: 0484 - 2722061 - 69 फैक्स: 0484 - 2720961 / 2721094
पंजीकृत कार्यालय: भारत भवन, 4 & 6, करीमभाय रोड, बेलार्ड ईस्टेट, पी. बी. नं. 688 मुंबई - 400 001

Compliance Status of Environmental Clearance conditions for installation of Diesel Hydro Desulphurisation (DHDS) project accorded by J-11011/78/96-IA-II dated 05.03.1997

Status of the project: Project commissioned in 2000

ITEM NO.	ITEM DESCRIPTION	Status as on 31.03.2026
1	All conditions stipulated by MoEF & CC while according to approval for Capacity Expansion Project	Complied
2	No expansion or modernization of the Plant should be carried out without approval of the MoEF & CC	Noted
3	The project authority must strictly adhere to the stipulations laid down by the Kerala State Pollution Control Board and the State Govt.	Noted and complied. Complied. The project authorities strictly adhere to the stipulations prescribed by the Kerala State Pollution Control Board (KSPCB), the Government of Kerala, and other applicable statutory authorities.
4	The total SO ₂ emission from BPCL Kochi Refinery including DHDS Project should not exceed the norm of 1607 Kg./hr. (Refer MoEF& CC vide letter No.J-110/1/78/96.IA.II dated 9 th February,1999)	Complied. It has been revised to 1579 kg/hr. as per latest EC for MS block project. ECNos.J-11011/43/2016-IA-II(I) dated 20.10.2016
5	The existing ETP should be adequately augmented, or additional treatment facilities should be provided to accommodate the additional effluent load from DHDS project before commissioning the project to ensure that the treated effluent meets the MINA Standard.	New ETP has been commissioned along with the DHDS Project and New ETP with higher capacity also erected as part of IREP (Integrated Refinery Expansion Project). Effluent specifications are complied with the standards as per GSR 186 (E) dated 18 th March 2008. Reports attached.
6	Time bound action plan for disposal of oil sludge / recovery of oil and design details of the solid waste disposal pit should be furnished to the Ministry within a period of 3 months.	Complied. A scheme for the recovery of oil from accumulated sludge has been implemented. The oil recovery process involves a series of physical separation methods, through which recoverable oil is extracted and reprocessed in the refinery process units. The residual sludge, after oil recovery, is subjected to

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		bioremediation, a scientifically established treatment method recommended by <i>The Energy and Resources Institute (TERI)</i>. Following bioremediation, the Total Petroleum Hydrocarbon (TPH) content of the treated material is reduced to below 5,000 ppm, in compliance with applicable guidelines. A secured landfill facility for storing hazardous wastes was commissioned in March 2005 and BPCL KR has Annual rate contract with TSDF (KEIL) [Kerala Enviro Infrastructure limited], an authorized agency for the disposal of industrial Hazardous waste.
7	SRU having an efficiency of more than 99% should be installed.	Complied. Additional Sulphur Recovery units with newer technology and higher efficiency of 99.9% have been commissioned as part of later projects viz. CEMP - II and IREP.
8	The ground water quality should be monitored, and the report should be submitted to the Ministry every six months.	Complied. Ground water quality monitoring report attached.

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Air Quality data for the period 1st APRIL 2025 to 30th SEPTEMBER 2025

AAQMS - CISF Quarters (Old W/L) area

Parameter	SO2	H2S	NOx	NH3	CO	Benzene	Methane	NMHC	PM 10	PM 2.5
Units	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	PPM	PPM	µg/m3	µg/m3
Limit	Daily 80 Annual 50	No limits are prescribed	Daily 80 Annual 40	Daily 400 Annual 100	8 hrs - 2 4 hrs - 4	Daily 05 Annual 05	No limits are prescribed		Daily 100 Annual 60	Daily 60 Annual 40
Apr 2025	16.0	2.1	39.6	28.4	0.9	0.0	0.0	0.0	52.5	32.3
May 2025	13.4	2.2	49.8	36.6	1.0	0.0	0.0	0.0	38.2	22.1
June 2025	15.6	1.6	38.4	27.7	1.3	0.0	0.0	0.0	43.0	16.9
July 2025	21.2	1.773	18.9	19.9	1.0	0.0	0.02	0.5	42.1	19.3
Aug 2025	5.23	0.99	11.59	9.63	0.39	0.00	0.00	0.03	45.41	21.91
Sept 2025	4.2	1.2	22.7	0.1	1.7	0.0	0.0	1.1	46.9	23.2

AAQMS - Jwalagiri Colony area

Parameter	SO2	H2S	NOx	NH3	CO	Benzene	Methane	NMHC	PM 10	PM 2.5
Units	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	PPM	PPM	µg/m3	µg/m3
Limit	Daily 80 Annual 50	No limits are prescribed	Daily 80 Annual 40	Daily 400 Annual 100	8 hrs - 2 4 hrs - 4	Daily 05 Annual 05	No limits are prescribed		Daily 100 Annual 60	Daily 60 Annual 40
Apr 2025	35.2	0.3	14.1	2.7	0.9	0.0	0.0	0.0	71.6	29.5
May 2025	29.2	0.2	14.0	2.5	1.0	0.0	0.0	0.0	32.9	21.8
June 2025	10.8	0.6	16.5	4.1	1.1	0.0	0.003	0.0	26.4	17.6
July 2025	25.3	0.70	15.3	10.5	1.1	NA	0.02	0.0	27.3	25.3
Aug 2025	19.16	2.82	17.30	8.12	1.01	NA	0.02	0.00	28.90	19.60
Sept 2025	22.6	3.2	15.8	4.3	1.6	0.0	0.0	0.0	33.4	22.3

AAQMS - DHDS Chalikkara Gate

Parameter	SO2	H2S	NOx	NH3	CO	Benzene	Methane	NMHC	PM 10	PM 2.5
Units	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	PPM	PPM	µg/m3	µg/m3
Limit	Daily 80 Annual 50	No limits are prescribed	Daily 80 Annual 40	Daily 400 Annual 100	8 hrs - 2 4 hrs - 4	Daily 05 Annual 05	No limits are prescribed		Daily 100 Annual 60	Daily 60 Annual 40
Apr 2025	39.7	14.4	22.2	0.0	0.8	0.0	0.0	0.0	42.5	30.1
May 2025	16.1	1.8	4.3	0.1	0.7	0.0	0.0	0.0	38.8	21.6
June 2025	22.3	3.9	10.2	0.8	0.8	0.0	0.0	0.0	29.5	16.3
July 2025	27.6	7.09	4.6	0.1	1.2	NA	0.02	0.0	30.8	17.3
Aug 2025	28.31	10.59	16.55	1.76	0.40	0.22	0.00	1.04	35.21	19.51
Sept 2025	12.01	21.46	22.9	8.02	0.47	0.013	0.01	0.013	41.98	19.8


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Air Quality data for the period 1 st APRIL 2025 to 30 th SEPTEMBER 2025										
AAQMS - Marketing Office area										
Parameter	SO2	H2S	NOx	NH3	CO	Benzene	Methane	NMHC	PM 10	PM 2.5
Units	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	PPM	PPM	µg/m3	µg/m3
Limit	Daily 80 Annual 50	No limits are prescribed	Daily 80 Annual 40	Daily 400 Annual 100	8 hrs - 2 4 hrs - 4	Daily 05 Annual 05	No limits are prescribed		Daily 100 Annual 60	Daily 60 Annual 40
Apr 2025	32.0	1.6	27.0	4.7	1.0	0.0	0.0	0.0	54.9	22.8
May 2025	34.5	2.4	23.2	6.0	1.2	0.0	0.0	Faulty	23.2	23.2
June 2025	35.7	3.2	24.4	6.8	2.1	0.0	0.0	0.0	31.0	22.0
July 2025	28.5	1.98	22.8	4.8	1.0	0.0	0.0	0.0	31.9	22.9
Aug 2025	25.3	4.79	21.8	8.8	0.3	0.0	0.0	0.0	34.0	21.9
Sept 2025	20.6	5.1	19.0	9.5	0.4	0.0	0.0	0.0	36.0	20.4
AAQMS - NHT CCR - 01 South side										
Parameter	SO2	H2S	NOx	NH3	CO	Benzene	Methane	NMHC	PM 10	PM 2.5
Units	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	PPM	PPM	µg/m3	µg/m3
Limit	Daily 80 Annual 50	No limits are prescribed	Daily 80 Annual 40	Daily 400 Annual 100	8 hrs - 2 4 hrs - 4	Daily 05 Annual 05	No limits are prescribed		Daily 100 Annual 60	Daily 60 Annual 40
Apr 2025	5.6	1.4	0.65	0.10	0.18	NA	0.0	0.90	51.6	27.3
May 2025	5.0	2.1	7.9	1.5	0.0	NA	0.0	1.3	67.1	12.8
June 2025	4.6	1.9	0.7	0.1	0.20	NA	0.0	0.7	53.6	23.6
July 2025	6.21	2.72	30.1	1.89	0.46	NA	1.47	0.32	38.31	16.42
Aug 2025	6.10	2.20	26.2	1.23	0.32	NA	0.37	0.45	33.20	18.20
Sept 2025	6.1	2.7	0.0	0.0	0.40	NA	1.3	0.20	42.1	26.3
AAQMS - PDPP side										
Parameter	SO2	H2S	NOx	NH3	CO	Benzene	Methane	NMHC	PM 10	PM 2.5
Units	µg/m3	µg/m3	µg/m3	µg/m3	mg/m3	µg/m3	PPM	PPM	µg/m3	µg/m3
Limit	Daily 80 Annual 50	No limits are prescribed	Daily 80 Annual 40	Daily 400 Annual 100	8 hrs - 2 4 hrs - 4	Daily 05 Annual 05	No limits are prescribed		Daily 100 Annual 60	Daily 60 Annual 40
Apr 2025	18.5	0.0	10.9	0.32	1.6	0.0	0.0	0.0	24.9	41.1
May 2025	17.4	0.0	8.2	3.3	1.1	0.0	0.0	0.0	31.5	18.2
June 2025	19.5	0.0	3.7	7.0	1.6	0.0	0.019	0.0	19.8	12.6
July 2025	23.0	0.71	68.9	4.6	1.4	0.0	0.02	0.0	33.8	18.3
Aug 2025	27.2	0.00	10.1	3.3	0.8	0.0	0.02	0.0	31.7	16.9
Sept 2025	34.1	0.0	7.3	2.4	0.8	0.0	0.0	0.0	27.2	9.2


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Water discharge Quality data for the period 1st APRIL 2025 to 30th SEPTEMBER 2025

Parameter	pH	BOD	COD	Oil & Grease	Sulphide	TSS	Phenol
Spec. Limit	6-8.5	15	125	5	0.5	20	0.35
Unit	**	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
April - 2025	7.34	14.2	43.53	3.16	0.40	16.97	0.17
May – 2025	7.4	11.6	35	3.1	0.40	13	19.3
June - 2025	7.3	11.5	35	2.99	0.40	16.1	0.13
July - 2025	7.3	12	36	2.95	0.40	15	0.13
Aug - 2025	7.36	11.45	34.32	2.89	0.40	13.4	0.13
Sept - 2025	7.36	11.15	34.33	2.86	0.40	16.3	0.13

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**Bharat Petroleum Corporation Limited
Kochi Refinery**

FORM 4

[See rules 6(5), 13(8), 16(6) and 20(2)]

FORM FOR FILING ANNUAL RETURNS

[To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March]

Statement for the Period 2025 -26

1. Name and address of facility	BPCL Kochi Refinery Post Bag No.2, Ambalamugal, Kochi, Kerala
2. Authorisation No. (CTO) and date of Issue	1. PCB/HO/EKM-II/ICO-R/03/2022 dated 05.02.2022, for the IREP units. 2. PCB/HO/EKM-2/ICO-R/07/2023 dated 08.08.2023, for the Old Refinery units 3. KSPCB/ER1/ICO/10039049/2023 dated 23/09/2023 for the Shore Tank Farm project. 4. KSPCB/ER2/ICO/10034459/2023 dated 18/10/2023 for Heat Traced Pipeline project. 5. PCB/HO/EKM-II/ICO-R/05/2022, dated 31/03/2022 for PDPP 6. PCB/HO/EKM-II/ICO-R/06/2022 dated 07/04/2022 for Motor Spirit Block project.
7. Name of the occupier / authorised person and full address with telephone no., fax number and e-mail	Chacko. M Jose Executive Director - BPCL Kochi Refinery Post Bag No.2, Ambalamugal, Kochi Ph: 0484-2722061 Extn: 1102 Fax: 0484 2721095
8. Production during the year (product wise), wherever applicable:	Total Feed charge 17656031 MT



**Bharat Petroleum Corporation Limited
Kochi Refinery**

Part A - To be filled by hazardous waste generators.

Part - A	To be filled by Hazardous category wise		
1	Total quantity Generated: Waste Category wise		
Sl. No:	Hazardous Waste item	Schedule & Category	Quantity in (MT)
1	PFCCU / FCCU Cat. Fines (On wet basis)	1-4.2	533.05
2	Oily Sludge: (Tank sludge) / shutdown sludge	1-4.1	578.885
3	Spent Charcoal	1- 4.2	28.38
4	Spent catalyst & Alumina Balls	1-4.2	81.51
5	Spent Resin from DM plant	**	12.47
6	FCCU & ARU spent clay	1-4.5	264.19
7	Contaminated Insulation wool	1-5.2	351.98
8	Soiled Sulphur waste	III- H4.1	344.55
9	Sulphur Guard N HGU / Chloride Guard	1-4.2	17.6
10	Poly propylene / poly Amide Filter element	1-22.2	31.03
11	Empty Chemical bags / drums	1-33.1	56.49
12	Non -Spec Acrylic Acid Polymer	1-22.2	228.55
13	Flue gas Contaminated Refractory Material	1-4.2	19.53
14	Bio-remediated sludge	**	92.77
15	Chemical / Oil Sludge from ETP	1-35.3	8373.82
Total (MT)			11014.805

** Not Classified as Hazardous waste



**Bharat Petroleum Corporation Limited
Kochi Refinery**

Part - A (2)	Quantity Dispatched		
	To Disposal Facility (TSDF)		
Sl. No:	Hazardous Waste item	Schedule & Category	Quantity in MT
1	PFCCU / FCCU Cat. Fines (On wet basis)	1-4.2	533.05
2	Oily Sludge: (Tank sludge) / shutdown sludge	1-4.1	578.885
3	Spent Charcoal	1- 4.2	28.38
4	Spent catalyst & Alumina Balls	1-4.2	81.51
5	Spent Resin from DM plant	**	12.47
6	FCCU & ARU spent clay	1-4.5	264.19
7	Contaminated Insulation wool	1-5.2	351.98
8	Soiled Sulphur waste	III- H4.1	344.55
9	Sulphur Guard N HGU / Chloride Guard	1-4.2	17.6
10	Poly propylene / poly Amide Filter element	I-22.2	31.03
11	Empty Chemical bags / drums	I-33.1	56.49
12	Non -Spec Acrylic Acid Polymer	I-22.2	228.55
13	Flue gas Contaminated Refractory Material	1-4.2	19.53
14	Bio-remediated sludge	**	92.77
	TOTAL		2640.985

Part - A (3)	Quantity Dispatched		
	To Recycler or Re-processor		
Sl. No:	Hazardous Waste item	Schedule & Category	Quantity in (MT)
1	NIL	N A	0.00
	TOTAL		0.00



**Bharat Petroleum Corporation Limited
Kochi Refinery**

Part - A	Quantity Dispatched		
(4)	To Others		
Sl. No:	Hazardous Waste item	Schedule & Category	Quantity in (MT)
1	NIL	N A	0
TOTAL			0

Part - A	Quantity Dispatched		
(5)	Consumed in-house / Storage		
Sl. No:	Hazardous Waste item: Re-processed in-house	Schedule & Category	Quantity in MT
1	Chemical / Oil Sludge from ETP to Delayed Coker Unit (DCU)	1-35.3	8373.82
TOTAL			8373.82
1	Quantity in storage at the end of the year	NA	0

Part B.

To be filled by Treatment, storage, and disposal facility operators -----N. A

1. Total quantity received -
2. Quantity in stock at the beginning of the year -
3. Quantity treated -
4. Quantity disposed in landfills as such and after treatment -
5. Quantity incinerated (if applicable) -
6. Quantity processed other than specified above -
7. Quantity in storage at the end of the year -

Part C.

To be filled by recyclers or co-processors or other users. -----N. A

1. Quantity of waste received during the year -
 - a. Domestic sources
 - b. imported (if applicable)
2. Quantity in stock at the beginning of the year -
3. Quantity recycled or co-processed or used -
4. Quantity of products dispatched (wherever applicable) -

5. Quantity of waste generated -
 6. Quantity of waste disposed -
 7. Quantity re-exported (wherever applicable)
 8. Quantity in storage at the end of the year
-

Signature of the Occupier or Authorized person of the Organization



Suresh K S

Dy. General Manager – HSE (Environment)

Date : 29.06.2026

Place : Ambalamugal



QUALITY CONTROL DEPARTMENT
BPCL-KOCHI REFINERY, AMBALAMUGAL

BOREWELL WATER TEST REPORT

Bore well Water-16

Date of Sample: 10.02.2026

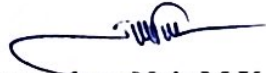
Date of Testing: 13.02.2026

KR. TECH.QC.26. BWEL.WATR

SI No	Test Parameters	Unit	Method	Result	Acceptable limit
1	pH	-	IS 3025 (P:11)	7.3	6.5 – 8.5
2	Oil	mg/L	IS 3025 (P:39)	Nil	nil
Metals					
3	Silver (as Ag)	mg/L	IS13428 Annex J	BDL (MDL=0.005)	0.1 (Max)
4	Aluminium (as Al)	mg/L	IS 3025 (P:55)	BDL(MDL=0.002)	0.03 (Max)
5	Boron (as B)	mg/L	IS 3025 (P:57)	BDL(MDL=0.01)	0.5 (Max)
6	Barium (as Ba)	mg/L	IS13428 Annex F	BDL(MDL=0.01)	0.7 (Max)
7	Calcium (as Ca)	mg/L	IS 3025 (P:40)	19	75 (Max)
8	Cadmium (as Cd)	mg/L	IS 3025 (P:41)	BDL(MDL=0.001)	0.003 (Max)
9	Chromium (as Cr)	mg/L	IS 3025 (P:52)	BDL(MDL=0.01)	0.05 (Max)
10	Copper (as Cu)	mg/L	IS 3025 (P:42)	BDL(MDL=0.01)	0.05 (Max)
11	Iron (as Fe)	mg/L	IS 3025 (P:53)	0.09	0.3 (Max)
12	Magnesium (as Mg)	mg/L	IS 3025 (P:46)	2.9	30 (Max)
26	Manganese (as Mn)	mg/L	IS 3025 (P:59)	BDL(MDL=0.01)	0.1 (Max)
13	Nickel (as Ni)	mg/L	IS 3025 (P:54)	BDL(MDL=0.01)	0.02 (Max)
14	Molybdenum (as Mo)	mg/L	IS 3025 (P:02)	BDL (MDL=0.002)	0.07 (Max)
15	Lead (as Pb)	mg/L	IS 3025 (P:47)	BDL(MDL=0.01)	0.01 (Max)
16	Zinc (as Zn)	mg/L	IS 3025 (P:49)	0.02	5 (Max)
17	Arsenic (as As)	mg/L	IS 3025 (P:37)	BDL(MDL0.005)	0.01 (Max)
18	Mercury (as Hg)	mg/L	IS 3025 (P:48)	BDL(MDL0.0001)	0.001(Max)
19	Selenium (as Se)	mg/L	IS 3025 (P:56)	BDL(MDL=0.001)	0.1 (Max)
20	Antimony (as Sb)	mg/L	APHA:3113B	BDL(MDL=0.001)	Max0.1

BDL: Below Detection Limit

MDL: Minimum Detection Limit


Jayendran Nair M K
Manager (Quality Control)