

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड

भारत सरकार का उपक्रम
कोच्चि रिफ़ाइनरी



BHARAT PETROLEUM CORPORATION LIMITED

A Govt. of India Enterprise

Kochi Refinery

03/HSE/ENV/202/04
07.06.2019

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

Ref: EC No.J-11011/78/96-IA-II dt. 5.3.97 issued to our 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 October 1st, 2017 to March 31st, 2018 for the subject project.

Thanking you

Very truly yours

For BPCL Kochi Refinery


Babu Joseph

Chief General Manager (HSE)

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

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**COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE CONDITIONS
FOR INSTALLATION OF DIESEL HYDRO DESULPHURISATION (DHDS)
PROJECT ACCORDED BY J-11011/78/96-IA-II DT. 5.3.97**

Status of the project: Project commissioned in 2000

ITEM NO.	ITEM DESCRIPTION	STATUS AS ON 31.03.2019
1	All conditions stipulated by MoEF & CC while according approval for Capacity Expansion Project	Complied
2	No expansion or modernization of the Plant should be carried out without approval of the MoEF&CC	Complied.
3	The project authority must strictly adhere to the stipulations laid down by the Kerala State Pollution Control Board and the State Govt.	Complied
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
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 MINAS standard.	New ETP has been commissioned along with the DHDS Project.
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. All the accumulated sludge at that point of time was processed and currently there is no accumulated stock of oily sludge. Sludge is being processed in Delayed Coker

		<p>Unit, which has been commissioned as part of IREP project.</p> <p>A secured landfill facility for storing hazardous wastes was commissioned in March, 2005.</p>
7	SRU having an efficiency of more than 99% should be installed.	Complied.
8	The ground water quality should be monitored and the report should be submitted to the Ministry every six months.	Complied. Ground water quality report attached as Annexure I .


BHARAT PETROLEUM CORPORATION LIMITED - KOCHI REFINERY
QUALITY CONTROL

File : KR.TECH.QC.26.DRINK.WATR

Sample Name : Bore Well analysis Report (No. 14)

Date of sample : 17 May 2019

Date of Analysis : 17 May 2019 – 18 May 2019

Sl No.	Parameters	Unit	Method	Result	Max Acceptable limit
1	Oil	mg/L	IS:3025 (Pt.39)	Nil	Nil
	METALS				
2	Silver as Ag	mg/L	IS:13428 Annex J	BDL(MDL-0.1)	0.1
3	Aluminum as Al	mg/L	IS:3025 (Pt.55)	BDL(MDL -0.02)	0.03
4	Boron as B	mg/L	IS:3025 (Pt.57)	BDL((MDL -0.05)	0.05
5	Barium as Ba	mg/L	IS:13428 Annex F	BDL(MDL -0.5)	0.7
6	Calcium as Ca	mg/L	IS:3025 (Pt.40)	42.9	75.0
7	Cadmium as Cd	mg/L	IS:3025 (Pt.41)	BDL(MDL -0.003)	0.003
8	Chromium as Cr	mg/L	IS:3025 (Pt.52)	BDL((MDL -0.05)	0.05
9	Copper as Cu	mg/L	IS:3025 (Pt.42)	BD(MDL -0.05)	0.05
10	Iron as Fe	mg/L	IS:3025 (Pt.53)	BDL(MDL -0.08)	0.3
11	Magnesium as Mg	mg/L	IS:3025 (Pt.46)	5.7	30
12	Manganese as Mn	mg/L	IS:3025 (Pt.59)	0.1(MDL -0.1)	0.1
13	Nickel as Ni	mg/L	IS:3025 (Pt.54)	BDL(MDL -0.02)	0.02
14	Molybdenum as Mo	mg/L	IS:3025 (Pt.02)	BDL(MDL -0.05)	0.07
15	Lead as Pb	mg/L	IS:3025 (Pt.47)	BDL(MDL -0.01)	0.01
16	Zinc as Zn	mg/L	IS:3025 (Pt.49)	1.9(MDL -0.05)	5
17	Arsenic as As	mg/L	IS:3025 (Pt.37)	BDL(MDL -0.02)	0.01
18	Mercury as Hg	mg/L	IS:3025 (Pt.48)	BDL(MDL -0.001)	0.001
19	Selenium as Se	mg/L	IS:3025 (Pt.56)	BDL(MDL -0.01)	0.01
20	Antimony as Sb	mg/L	APHA:3113B	BDL(MDL -0.06)	0.06

MDL Minimum detection limit.

BDL Below detection limit.



SENIOR MANAGER (QC)

Chachappan CM