

03/HSE/ENV/202/04
06.12.2019

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 1st April 2019 to September 30th, 2019 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**

**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 30.09.2019
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 Unit, which has been

		<p>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.

Annexure

1.0.11.2019



BHARAT PETROLEUM CORPORATION LIMITED - KOCHI REFINERY

QUALITY CONTROL

KP TECH.QC.26.DRINK WATER

Sample Name: Bore Well Analysis Report (No. 27)

Date of Sample: 20 SEP 2019

Date of Analysis: 20 SEP 2019 - 21 SEP 2019

Sl No	Parameters	Unit	Method	Result	Desirable Limit
1	PH		IS:3025	6.8	6.5-8.5
2	Oil	mg/L	IS:3025 (Pt.39)	Nil	Nil
	METALS				
3	Silver as Ag	mg/L	IS:13428 Annex J	BDL	0.1 (MDL-0.005)
4	Aluminium as Al	mg/L	IS:3025 (Pt.55)	BDL	0.03 (MDL-0.02)
5	Boron as B	mg/L	IS:3025 (Pt.57)	BDL	0.05 (MDL-0.01)
6	Barium as Ba	mg/L	IS:13428 Annex F	BDL	0.7 (MDL-0.01)
7	Calcium as Ca	mg/L	IS:3025 (Pt.40)	46.4	75.0
8	Cadmium as Cd	mg/L	IS:3025 (Pt.41)	BDL	0.003 (MDL-0.001)
9	Chromium as Cr	mg/L	IS:3025 (Pt.52)	BDL	0.05 (MDL-0.01)
10	Copper as Cu	mg/L	IS:3025 (Pt.42)	BDL	0.05 (MDL-0.01)
11	Iron as Fe	mg/L	IS:3025 (Pt.53)	BDL	0.3 (MDL-0.08)
12	Magnesium as Mg	mg/L	IS:3025 (Pt.46)	6.5	30
13	Manganese as Mn	mg/L	IS:3025 (Pt.59)	0.1	0.1 (MDL-0.01)
14	Nickel as Ni	mg/L	IS:3025 (Pt.64)	BDL	0.02 (MDL-0.01)
15	Molybdenum as Mo	mg/L	IS:3025 (Pt.07)	BDL	0.07 (MDL-0.01)
16	Lead as Pb	mg/L	IS:3025 (Pt.47)	BDL	0.01 (MDL-0.01)
17	Zinc as Zn	mg/L	IS:3025 (Pt.49)	1.6	5 (MDL-0.01)
18	Arsenic as As	mg/L	IS:3025 (Pt.37)	BDL	0.01 (MDL-0.005)
19	Mercury as Hg	mg/L	IS:3025 (Pt.48)	BDL	0.001 (MDL-0.001)
20	Selenium as Se	mg/L	IS:3025 (Pt.56)	BDL	0.01 (MDL-0.001)
21	Antimony as Sb	mg/L	APHA:3113B	BDL	0.06 (MDL-0.001)

MDL: Minimum detection limit

BDL: Below detection limit

Chachappan C Manamail

SM (cc)