



03/HSE/ENV/202/04  
20.11.2020

The Additional Principal Chief conservator of Forests (C)  
Ministry of Environment, Forest & Climate Change  
4<sup>th</sup> 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 1<sup>st</sup> April 2020 to 30<sup>th</sup> Sept 2020 for the subject project.

Thanking you

Very truly yours

For BPCL Kochi Refinery

**Ramachandran. M.K**

✓ **General Manager I/C (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 30.09.2020
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 <sub>2</sub> 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 <sup>th</sup> February,1999)	Complied. Present SO <sub>2</sub> emission is in the range of 400 to 600 Kg/hrs.
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 <b>Annexure I</b> .

# Annexure 1

  
**QUALITY CONTROL DEPARTMENT**  
**BPCL-KOCHI REFINERY, AMBALAMUGAL**

**BOREWELL WATER TEST REPORT**

Bore well No. 50

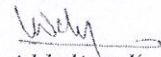
Date of Sample: 22.10.2020

Date of Testing: 22.10.2020

KR. TECH.QC.26.DRINK.WATR

Sl No:	Test Parameters	Unit	Method	Result	Acceptable limit
5	pH	-	IS 3025 (P:11)	7.2	6.5 - 8.5
15	Oil	mg/L	IS 3025 (P:39)	nil	nil
<b>Metals</b>					
16	Silver (as Ag)	mg/L	IS13428 Annex E	BDL (MDL=0.005)	0.1 (Max)
17	Aluminium (as Al)	mg/L	IS 3025 (P:55)	BDL (MDL=0.002)	0.03 (Max)
18	Boron (as B)	mg/L	IS 3025 (P:57)	BDL (MDL=0.01)	0.5 (Max)
19	Barium (as Ba)	mg/L	IS13428 Annex F	BDL (MDL=0.01)	0.7 (Max)
20	Calcium (as Ca)	mg/L	IS 3025 (P:40)	38	75 (Max)
21	Cadmium (as Cd)	mg/L	IS 3025 (P:41)	BDL (MDL=0.001)	0.003 (Max)
22	Chromium (as Cr)	mg/L	IS 3025 (P:52)	BDL (MDL=0.01)	0.05 (Max)
23	Copper (as Cu)	mg/L	IS 3025 (P:42)	BDL (MDL=0.01)	0.05 (Max)
24	Iron (as Fe)	mg/L	IS 3025 (P:53)	0.11	0.3 (Max)
25	Magnesium (as Mg)	mg/L	IS 3025 (P:46)	1.6	30 (Max)
26	Manganese (as Mn)	mg/L	IS 3025 (P:59)	BDL (MDL=0.01)	0.1 (Max)
27	Nickel (as Ni)	mg/L	IS 3025 (P:54)	BDL (MDL=0.01)	0.02 (Max)
28	Molybdenum (as Mo)	mg/L	IS 3025 (P:02)	BDL (MDL=0.002)	0.07 (Max)
29	Lead (as Pb)	mg/L	IS 3025 (P:47)	BDL (MDL=0.01)	0.01 (Max)
30	Zinc (as Zn)	mg/L	IS 3025 (P:49)	0.3	5 (Max)
31	Arsenic (as As)	mg/L	IS 3025 (P:37)	BDL (MDL=0.005)	0.01 (Max)
32	Mercury (as Hg)	mg/L	IS 3025 (P:48)	BDL (MDL=0.0001)	0.001 (Max)
33	Selenium (as Se)	mg/L	IS 3025 (P:56)	BDL (MDL=0.001)	0.1 (Max)
34	Antimony (as Sb)	mg/L	APHA:3113B	BDL (MDL=0.001)	Max 0.1

BDL: Below Detection Limit  
MDL: Minimum Detection Limit

  
**Adalazhagan K**  
 Chief Manager (Quality Control)