



## इंडियन ऑयल कॉर्पोरेशन लिमिटेड

गुजरात रिफ़ाइनरीज़, डाकघर : जवाहरनगर  
जिला : वडोदरा, गुजरात - 391 320

### Indian Oil Corporation Limited

Gujarat Refineries, P.O. Jawaharnagar,  
Dist. : Vadodara, Gujarat - 391 320

Phone : +91-265-2237106

E-mail : gujaratrefinery@indianoil.in

Website : www.iocl.com



रिफ़ाइनरीज़ प्रभाग  
Refineries Division

Ref: JR-Dumad/HSE/GPCB/form V/2023-24

Date: 30.09.2024

The Unit Head, Vadodara,  
Gujarat Pollution Control Board,  
Paryavaran Bhavan,  
Sector 10-A,  
Gandhinagar – 382 010.

Sub: Environment Statement for the year 2023-24(PCB ID 68310)

Dear Sir,

Pleased find enclosed the Environment Statement of Gujarat Refinery, Dumad for the financial year ending 31<sup>st</sup> March 2024. The report has been compiled as per Form-V of Central Pollution Control Board.

Thanking you,

Yours faithfully,

(B B Makwana)

Deputy General Manager (HSE)  
Gujarat Refinery

Encl: As above.

CC: The Regional Officer

Gujarat Pollution Control Board  
GERI Compound, Race Course  
Baroda-390007

बी.बी. मकवाना  
B.B. MAKWANA  
उप महाप्रबंधक (एच.एस. & ई.)  
Dy. General Manager (H, S & E)  
गुजरात रिफ़ाइनरी, आई.ओ.सी.एल., वडोदरा  
Gujarat Refinery, IOCL, Vadodara

पंजीकृत कार्यालय : जी-9, अली यावर जंग मार्ग, बांद्रा (पूर्व) मुम्बई - 400 051 महाराष्ट्र (भारत)  
Regd. Office : G-9, Ali Yavar Jung Marg, Bandra (East) Mumbai - 400 051 Maharashtra (India)  
CIN-L 23201 MH1959 GOI 011388

**FORM – V**  
**(See Rule 14)**

From:  
Indian Oil Corporation Ltd. (Gujarat Refinery) Dumad Project,  
Dumad-391740, Dist:Vadodara,Gujarat

To,  
Gujarat Pollution Control Board  
Paryavaran Bhavan  
Sector 10-A  
Gandhinagar – 382 010.

Environmental statement for the financial year ending on 31<sup>st</sup> Mar'24.

**PART – A**

i.	Name & address of the owner/ Occupation of the industry, Operation or process.	Shri Rahul Prashant Executive Director & Refinery Head Gujarat Refinery PO: Jawaharnagar Vadodara – 391 320  <b>Address of the operation facility:</b> Indian Oil Corporation Ltd. (Gujarat Refinery) Dumad Project , Dumad- 391740,Dist:Vadodara,Gujarat
ii.	Industry category	Oil refinery storage and dispatch facility
iii.	Production capacity	6,34,000 MT/Month
iv.	Year of establishment	2022
v.	Date of the last Environmental Statement submitted.	CCA – AWH -119056 was obtained on 01.06.2022 and 2022-23 is the first financial year of operation

**PART – B**

<b>(1) Fresh Water and Raw Material Consumption</b>			
<b>Sl No.</b>	<b>Description</b>	<b>Water consumption, m3/day</b>	
		<b>2022-23</b>	<b>2023-24</b>
1	Process water	0	270
2	Cooling water	0	50
3	Domestic (Industrial area only)	216	300
	<b>TOTAL</b>	<b>216</b>	<b>620</b>

<b>Process water consumption per unit of product output</b>
0.13 m3 per MT of product

<b>(2) Raw Material Consumption</b>		
<b>SN</b>	<b>Name of Raw material</b>	<b>Consumption, MT</b>
No raw material consumed since the facility is for storage and despatch of finished products from Gujarat refinery		

<b>(3) Products</b>			
<b>SN</b>	<b>Name of product</b>	<b>Production (Despatch), MT</b>	
		<b>2022-23</b>	<b>2023-24</b>
1.	LMW/HMW-Linear Alkyl Benzene (LAB)	96157.32	176156
2.	Motor Spirit	0	0
3.	High speed Diesel	0	739618
4.	Aviation Turbine Fuel	0	0
5.	Pipeline compatible Kerosene	0	0
6.	Superior Kerosene Oil	0	0

### **PART – C**

Pollutants discharged to environment / unit of output  
(Parameters as specified in the consent issued)

- (1) Quantity of Treated water discharged: NIL
- (2) Concentration of the Effluent discharged: NA
- (3) Quantity of Air emission: No process/furnace emission as the facility is for storage of finished products from Gujarat refinery

#### PART – D

#### HAZARDOUS WASTES

As specified under hazardous wastes (management and handling) Rules, 1989

1. Total quantity of waste generated category wise			2023-24
Sl No	Description of the waste	Type of waste with category as per Schedules I, II and III of these rules	Total quantity of Generation
1	Presently no hazardous waste generation in the operation facility	-	-

#### PART – E

SL.NO	Solid wastes generation/Disposal	2023-24
		(MT)
a	From Process	Nil
b	From Pollution Control Facility	Nil
c1	Quantity recycled or reutilized within unit	Nil
C2	Sold	Nil
C3	Disposed	Nil

#### PART – F

**Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice for both these categories of wastes.**

For the last financial year 2023-24, there is no generation of any Hazardous or industrial solid waste as the facility is operated to store the finished products from the refinery and its dispatch. In the upcoming phases of the project, the generation of hazardous waste is envisaged, and proper approval will be obtained in consent for various mode of its disposal.

#### PART – G

(Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production)

1. No pollution control measures were required in the facility as the facility does not carry out any production. The facility is under different project construction phases and the pollution control measures will be implemented in the upcoming process units which is under construction and includes ZLD facility.
2. Hazardous wastes like Spent catalyst, spent resin, spent carbon etc. are envisaged in the upcoming process units after the completion of project and commissioning activities. Work order has been awarded to M/s Recycling Solutions Private Limited (M/s RSPL) at a cost of INR 12.41 Lacs (excluding taxes) in Jan-2024 for a period of three (03) years. With

this initiative, Gujarat refinery shall ensure the Conservation of natural resources along with environment safe disposal of the waste generated.

3. Generation of insulation waste is envisaged in the upcoming process units after the completion of project and commissioning activities. Gujarat Refinery shall follow the latest techniques of co-processing/pre-processing for disposal of the waste generated. Work order has been awarded to M/s Green Gene Enviro Protection & Infrastructure Private Limited (M/s GGEPIL) at a cost of INR 17.55 Lacs (excluding taxes) in Jan-2024 for a period of three (03) years. With this initiative, Gujarat refinery shall ensure the Conservation of natural resources along with environment safe disposal of the waste generated.

#### PART – H

(Additional investment proposal for environmental protection including abatement of pollution) scheme approved / job in progress:

- 1) ZLD facility for upcoming Oxo-alcohol (Dumad) plants.
- 2) VOC LDAR programme has been started from Jan'24 through external agency-M/s Nitya Laboratories for product storage tanks.
- 3) Agency line-up for Co processing/Preprocessing of hazardous waste and insulation waste for environmentally safe disposal of wastes to be generated in future.
- 4) 2 new CAAQMS proposed under the Dumad project
- 5) Rainwater harvesting from roof tops of buildings.
- 6) Environment Protection measures for existing Refinery and upcoming projects
- 7) Green Belt development.

#### PART – I

(Any other particulars for improving the quality of the environment)

Not applicable to the subject facility for the financial year 2023-24.



Name: B B Makwana  
Designation: DGM (HSE)

बी.बी. मकवाना  
B.B. MAKWANA  
उप महाप्रबंधक (एच, एस & ई)  
Dy. General Manager (H, S & E)  
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