

VL/CIL/20610/GPCB/FORM V/2025/06

Date: 17<sup>th</sup> June 2025

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

Sir,

Sub: Submission of Annual Environment Statement (Form-V) for Development activities in CB/OS-2 Block in Surat district for the period April 2024 to March 2025

With reference to the subject cited above, please find enclosed herewith the Environment Statement for the financial year April 2024 to March 2025, in compliance with Condition No. 8.6 of the Consolidated Consent & Authorization (CC&A) issued by your esteemed office.

Thanking you,

Yours faithfully,

  


**Samarth Kaji**  
Installation Manager - CB/OS-2

Copy to: The Regional Officer,  
Gujarat Pollution Control Board,  
Plot No.11-12/2,3  
GIDC Pandesara  
Surat – 394 221

**VEDANTA LIMITED**

Cairn Oil & Gas : Survey No 232 | Village – Suvali | Surat-Hazira Road | Surat - 394510, Gujarat, India  
T +91-261 6711444 F +91-261 6711509, 10, 90 | [www.cairnindia.com](http://www.cairnindia.com)

Registered Office: Vedanta Limited, 1<sup>st</sup> Floor, 'C' wing, Unit 103, Corporate Avenue, Atul Projects, Chakala, Andheri (East), Mumbai-400093,  
Maharashtra, India | T +91-22 664 34500 | F +91-22 664 34530 | [www.vedantalimited.com](http://www.vedantalimited.com)

CIN: L13209MH1965PLC291394

**FORM V**  
(See Rule 14)  
**ENVIRONMENTAL STATEMENT**

**ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2024-25**

**SUVALI ONSHORE TERMINAL**  
**CB-OS 2 BLOCK HYDROCARBON FIELD**  
**VILLAGE: SUVALI DIST: SURAT GUJARAT**

**PART - A**

I. Name and address of the owner / occupier of the industry operation of process	<b>Installation Manager – Suvali</b> M/s Vedanta Limited, Cairn Oil & Gas Suvali Onshore Terminal Survey No. 232, Village Suvali, Surat Hazira Road, Surat – 394510
II. Industry category	Primary -- (STC Code) Secondary -- (SIC Code)
III. Production capacity – Units	Suvali Onshore Terminal Crude Oil Processing Capacity <b>12000 BoPD</b> Condensate: - <b>7200 M<sup>3</sup>/Month</b> Natural Gas- <b>150 MMSCFD</b>
IV. Year of establishment	November 2002
V. Date of the last environmental statement submitted	16 <sup>th</sup> September 2024

**PART - B**

Water and Raw Material Consumption:

**i) Water consumption m<sup>3</sup>/d**

Purpose	Quantity in m <sup>3</sup> /d	Remarks
Domestic	32.21 m <sup>3</sup> /day	Water is sourced through GIDC Supply and used at administrative buildings, washrooms, etc.
Process/Industrial	41.77 m <sup>3</sup> /day	Water is sourced through GIDC Supply and used for industrial cleaning etc.
<b>Total</b>	<b>90.65 m<sup>3</sup>/day</b>	Refer Annexure-1 for month-wise Consumption details

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Crude (SCM)	0.08 KL/SCM	0.15 KL/SCM
Natural Gas (SCM)	110.73KL/MMSCM	93.97 KL/MMSCM

(ii) Raw material consumption

Name of Raw Materials	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year	During the current financial year
There are no raw materials involved in the production of Crude Oil. The well fluids consisting of oil, water and associated gas is extracted from the hydrocarbon subsurface reservoir and flows directly to the Suvali facility for phase separation and processing.		NA	NA

**PART - C**

POLLUTANTS	QUANTITY OF POLLUTANTS DISCHARGED (MASS/DAY)	CONCENTRATIONS OF POLLUTANTS IN DISCHARGES (MASS / VOLUME)			PERCENTAGE OF VARIATION FROM PRESCRIBED STANDARDS WITH REASONS	
		Parameter	Annual Avg(mg/l)	Prescribed Std.		
Treated Sewage Water	19.03 KLD	TSS (mg/l)	26.75	30	Within the specified limits of GPCB	
		BOD (mg/l)	15.08	20		
		Residual Cl	0.55	>0.5		
Treated Effluent	1122.94 KLD Refer Annexure-2 for Month-wise discharge quantity	Parameter	Annual Avg(mg/l)	Prescribed Std.	Within the specified limits of GPCB.	
		TSS (mg/l)	31	100		
		BOD (mg/l)	23.91	30		
		COD (mg/l)	79	100		
B) Air Emissions from Gas Turbines & DG Sets	Fuel Consumption:  Avg Natural Gas consumed for running Gas Turbine Generators & Gas Turbine Compressor, Hot Oil Heater, TEG regenerators etc. = <b>82349.37</b> SCM/Day	Name of Source	Quantity of Pollutant (mg/NM <sup>3</sup> )			The stack emissions are within the prescribed limits of GPCB.
			PM	SO <sub>2</sub>	NO <sub>x</sub>	
		GTG	13.17	5.31	12.07	
		EDG	88.58	27.95	23.17	
		GTC	15.16	7.11	10.51	
		Booster Compressor	15.23	5.7	10.93	
		Hot Oil Heater	16.66	9.02	12.19	
		TEG Regenerator	15.45	7.81	8.96	
GPCB Limit	150	100	50			

**PART - D**  
**HAZARDOUS WASTE**

(As specified under Hazardous & Other Wastes (Management, Handling and Transboundary Movement) Rules 2016)

Hazardous Waste	Total Quantity Generated					
	During the previous financial year			During the current financial year		
a) From Process	Sr. No.	Hazardous Waste Description	Generation Quantity (Kgs/ Liters)	Sr. No.	Hazardous Waste Description	Generation Quantity (Kgs/ Liters)
	1	Waste oil (5.2. Schedule I)	Nil	1	Waste oil (5.2. Schedule I)	27589
	2	Used Oil/ Spent Oil (5.1 Schedule I)	130	2	Used Oil/ Spent Oil (5.1 Schedule I)	Nil
	3	Filters, Liners containing Oil (3.3 Schedule I)	Nil	3	Filters, Liners containing Oil (3.3 Schedule I)	Nil
	4	Oily Soaked Cotton Rags (5.2 Schedule I)	Nil	4	Oily Soaked Cotton Rags (5.2 Schedule I)	Nil
	5	Discarded containers (33.3 Schedule I)	2400	5	Discarded containers (33.3 Schedule I)	Nil
	6	Spent Chemicals (32.1 Schedule I)	8,620	6	Spent Chemicals (32.1 Schedule I)	Nil
	7	Drill Cuttings (2.1 Schedule I)	Nil	7	Drill Cuttings (2.1 Schedule I)	Nil
	8	Drilling Fluid (2.3 Schedule I)	Nil	8	Drilling Fluid (2.3 Schedule I)	Nil
	9	Waste Hot Oil (5.2 Schedule I)	Nil	9	Waste Hot Oil (5.2 Schedule I)	Nil
	10	Expired paint (21.1 Schedule I)	Nil	10	Expired paint (21.1 Schedule I)	Nil
	11	Sludge Generated from ETP Operations	19310 Kgs	11	Sludge Generated from ETP Operations	44130 Kgs
(B) From pollution control facilities	Waste Disposal to Authorized Pre processor.			Waste Disposal to Authorized Pre processor.		
	1.	Sludge Generated from ETP Operations	19310 Kgs	1.	Sludge Generated from ETP Operations	44130 Kgs
(C) From Other sources	NIL			NIL		

**PART - E**

**SOLID WASTE**

Solid Waste	Total Quantity	
	During the previous financial year	During the current financial year

Solid Waste	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	Mentioned in other waste category	Refer <b>Part D</b> for Hazardous Waste and other solid waste mentioned below
(b) From Pollution control facility (STP Sludge)	The Bio-sludge generated is used as manure for greenbelt maintenance.	The Bio-sludge generated is used as manure for greenbelt maintenance.
(C) Other wastes from, Warehouse, Living quarters and plant housekeeping etc.,	950 Kg Non-Hazardous waste	2305 Kg Non-Hazardous waste
(1) Quantity recycled or re-utilized within the unit.	130 L Used Oil reprocessed within the terminal	27589 L Used Oil reprocessed within the terminal
(2) Sold (Waste paper, metal waste, plastic wastes, packaging material, wooden pallets, drinking water bottles etc. are handover to recyclers)	Nil	Nil
(3) Disposed	Segregated solid waste sold to scrap dealers through auction basis time to time.	Segregated solid waste sold to scrap dealers through auction basis time to time.

#### PART - F

Please specify the characterizations (in terms of composition and quantum) of Hazardous and non-hazardous wastes and indicate disposal practice adopted for both these categories of wastes.

Hazardous Waste: As per Hazardous Waste Authorization. **Refer Annexure-3** for details.

Non-hazardous waste: Domestic waste is generated from the operation and development facilities which mostly consist of bio-degradable organic matter and recyclable wastes. The recyclable waste is handed over to scrap vendor for further recycling process. Food waste is used for composting and manure is being used in green belt development.

#### PART - G

Impact of the pollution abatement measures taken on conservation of natural resource:

- Sewage Treatment Plant of capacity 30 KLD at Suvali Terminal is operational for the treatment of sewage water.
- Organic Waste Convertor for the treatment and conversion of food waste into bio-manure is available.
- Water produced in crude extraction process is treated in Effluent Treatment plant and discharged into the sea as per GPCB Norms.
- The 33.3 ha onshore processing facility at Suvali Terminal handles natural gas and crude oil from the Lakshmi and Gauri fields. Within the terminal, a green belt spans 11.17 ha, accounting for approximately 33.54% of the total area.
- In addition to on-site greening, broader ecological initiatives have been undertaken. In 2012, an MoU was signed with the Gujarat Ecology Commission for the restoration, plantation, and

conservation of mangroves over 50 ha at Karanj Village, Olpad Taluka, Surat district. Further commitments include MoUs with the Gujarat Forest Division—one signed on 20th October 2022 for the development and protection of 60 ha of mangroves along the Surat coastal region, and another on 9th November 2023 for an additional 130 ha of mangrove conservation in the same region.

- More than **27,000 KL** of water utilized in the plant has been collected from rainwater harvesting ponds built inside the terminal.

## PART - H

Additional measures/investment proposal for environmental protection including abatement/prevention of pollution.

- Fuel control devices are a part of all equipment for fuel conservation.
- Solar panels are installed at the facility to contribute to the overall energy mix.
- Rainwater harvesting facility is built within the terminal to meet 40% of freshwater demand.
- Tree plantation is one of the initiatives taken up by the company regularly.
- All the detergents used at the terminal are bio friendly.
- Oil Spill Response Equipments are available with Organization as per NOSDCP requirements.
- Awareness sessions on environmental topics are conducted regularly for all employees and business partners.
- As part of CSR initiative, Cairn has developed a rainwater harvesting facility for the community.
- The company has stopped the use of Single-use plastic items at its premises and has been certified as **Single-Use Plastic Free Premises** by the Confederation of Indian Industry
- World Environment Day was celebrated on 5<sup>th</sup> June 2025 with active engagement from employees, business partners and communities.

Date: 17.06.2025

Installation Manager – Suvall  
(Samarth Kaji)



ANNEXURE – 1

FRESH WATER CONSUMPTION IN KILOLITERS

<b>FRESH WATER CONSUMPTION (FY 2024-25)</b>							
<b>Month</b>	<b>Service Water (Industrial), m3</b>	<b>Fire Water/RWH (Industrial) (m3)</b>	<b>Gardening Water (Agriculture), m3</b>	<b>Potable Water (Domestic), m3</b>	<b>Total Water Consumed in m3</b>	<b>Production in Th. Tons Production in Th. Tons</b>	<b>Sp. Water m3/Th. Tons</b>
Apr-24	488	0	524	858	1870	29.07	64.32
May-24	727	0	633	954	2313	28.34	81.61
Jun-24	869	0	415	1088	2372	30.56	77.61
Jul-24	725	1035	515	859	3135	38.05	82.39
Aug-24	799	828	500	885	3012	36.54	82.44
Sep-24	929	855	531	1013	3328	35.88	92.74
Oct-24	1029	695	539	1009	3272	36.02	90.83
Nov-24	808	845	532	1027	3212	33.30	96.45
Dec-24	771	486	554	969	2780	36.74	75.66
Jan-25	852	76	426	1148	2502	37.10	67.43
Feb-25	813	589	407	943	2752	42.02	65.48
Mar-25	1012	17	506	1005	2540	45.18	56.22
<b>Total</b>	<b>9822</b>	<b>5425</b>	<b>6083</b>	<b>11757</b>	<b>33087</b>	<b>429</b>	<b>933</b>
<b>Per day</b>	<b>26.91</b>	<b>14.86</b>	<b>16.67</b>	<b>32.21</b>	<b>90.65</b>	<b>1.17</b>	<b>2.56</b>

ANNEXURE – 2

EFFLUENT WASTEWATER QUANTITY IN KILOLITRES

<b>Months</b>	<b>Wastewater</b>
	<b>Treated Effluent (KL)</b>
Apr-24	40841
May-24	40527
Jun-24	36416
Jul-24	36890
Aug-24	36706
Sep-24	42495
Oct-24	43272
Nov-24	25422
Dec-24	26192
Jan-25	27209
Feb-25	23478
Mar-25	30426
<b>Total</b>	<b>409874</b>

**ANNEXURE – 3**

**HAZARDOUS WASTE (FROM PROCESS)**

<b>S. No</b>	<b>Hazardous Waste Description</b>	<b>Authorized Quantity</b>	<b>FY 24-25 Generation Quantity (Kgs/ Liters)</b>	<b>FY 24-25 Disposal Quantity (Kgs/ Liters)</b>
1	ETP Waste (34.3 Schedule I)	600 MT/ Year	44.13	44.13
2	Waste oil (Tank bottom oil/ Sludge, oil emulsions) (5.2 Schedule I)	800 MT/Year	27.589	27.589
3	Used Oil/ Spent Oil (5.1 Schedule I)	40 MT/Year	0	0
4	Sludge Filters, Liners containing Oil (35.1 Schedule I)	15 MT/ Year	Nil	Nil
5	Oily Soaked Cotton Rags (Z-41 Schedule I)	6000 Kg/Year	Nil	Nil
6	Discarded containers (33.3 Schedule I)	30000 Kg/ year	Nil	Nil
7	Spent Chemicals (32.1 Schedule I)	40 MT/Year	Nil	Nil
8	Drill Cuttings (2.1 Schedule I)	800 MT/Well	Nil	Nil
9	Drilling Fluid (2.3 Schedule I)	440 MT/Well	Nil	Nil
10	Waste Hot Oil (5.2 Schedule I)	1000 Lit/Year	Nil	Nil
11	Expired paint (21.1 Schedule I)	600 Kg/Year	Nil	Nil

**BIO-MEDICAL WASTE**

<b>S. No</b>	<b>Waste Description</b>	<b>Characteristics</b>	<b>Authorized Quantity</b>	<b>FY 24-25 Generation Quantity (Kgs)</b>	<b>FY 24-25 Disposal Quantity (Kgs)</b>
1	Yellow Category	Toxic	10 Kg/ Month	19.277	19.277
2	Red Category	Toxic	1 Kg/Month	3.856	3.856
3	White Category	Toxic	10 Kg/Month	1.095	1.095
4	Blue Category	Toxic	1 Kg/Month	0.005	0.005