



Maharashtra Pollution Control Board

महाराष्ट्र प्रदूषण नियंत्रण मंडळ

FORM V

(See Rule 14)

Environmental Audit Report for the financial Year ending the 31st March 2025

Unique Application Number

MPCB-ENVIRONMENT_STATEMENT-0000082262

Submitted Date

01-09-2025

PART A

Company Information

Company Name

Kirloskar Oil Engines Limited

Application UAN number

MPCB-CONSENT-0000156691

Address

Plot No. D-1, Five Star MIDC Kagal
Hatkanangale

Plot no

D-1

Taluka

Hatkanangale

Village

Talandage

Capital Investment (In lakhs)

92030

Scale

L.S.I

City

Kolhapur

Pincode

416236

Person Name

Santosh Parab

Designation

DGM, Utilities

Telephone Number

9881721324

Fax Number

111111111

Email

Santosh.Parab@kirloskar.com

Region

SRO-Kolhapur

Industry Category

Red

Industry Type

other

Last Environmental statement submitted online

yes

Consent Number

Format 1.0/CAC/UAN No. MPCB-
CONSENT-0000156691/CR/2305000839

Consent Issue Date

2023-05-12

Consent Valid Upto

2026-02-28

Establishment Year

2008

Date of last environment statement submitted

Sep 20 2024 12:00:00:000AM

Industry Category Primary (STC Code) & Secondary (STC Code)

Product Information

Product Name

Storage of spare parts for engine shifting, metallic skids etc.

Consent Quantity

0

Actual Quantity

0

UOM

Nos./Y

Machined spare parts of Engine, Genset, Pump set, etc.

840000

7395

Nos./Y

I.C. Engines

120000

81809

Nos./Y

Generating Sets

19500

3868

Nos./Y

Pump sets

96000

376

Nos./Y

Solar Power Generation Plant

6.8

6.8

Mwh

Fuel Oil from plastic waste	75	12.629	KL/A
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<u>By-product Information</u>			
By Product Name	Consent Quantity	Actual Quantity	UOM
Not Applicable	0	0	Nos./Y

Part-B (Water & Raw Material Consumption)

<u>1) Water Consumption in m3/day</u>		
Water Consumption for Process	Consent Quantity in m3/day	Actual Quantity in m3/day
	125.00	32.85
Cooling	121.00	50.18
Domestic	208.50	130.55
All others	30.00	25.00
Total	484.50	238.58

<u>2) Effluent Generation in CMD / MLD</u>			
Particulars	Consent Quantity	Actual Quantity	UOM
Daily quantity of trade effluent from the factory	115	41.32	CMD
Daily quantity of sewage effluent from the factory	187.5	89.45	CMD
Daily quantity of treated effluent	302.5	130.77	CMD

<u>2) Product Wise Process Water Consumption (cubic meter of process water per unit of product)</u>			
Name of Products (Production)	During the Previous financial Year	During the current Financial year	UOM
I.C. Engine	0.130	0.10815	CMD
Generating sets	0.130	0.00511	CMD
Pumps	0.130	0.00050	CMD

<u>3) Raw Material Consumption (Consumption of raw material per unit of product)</u>			
Name of Raw Materials	During the Previous financial Year	During the current Financial year	UOM
Paint	0.001458705	0.001644824	KL/A
Aluminium Castings	0.003065784	0.003624508	MT/A
Steel Forgings	0.02551856	0.037632482	MT/A
Cast Iron Castings	0.102371023	0.124381428	MT/A
Other chemicals	0.001475327	0.00113128	MT/A

<u>4) Fuel Consumption</u>			
Fuel Name	Consent quantity	Actual Quantity	UOM
HSD	1635	1246.18	MT/A
LPG	43.5	25.878	MT/A

Part-C

Pollution discharged to environment/unit of output (Parameter as specified in the consent issued)
[A] Water

<i>Pollutants Detail</i>	<i>Quantity of Pollutants discharged (kL/day)</i>	<i>Concentration of Pollutants discharged(Mg/Lit) Except PH,Temp,Colour</i>	<i>Percentage of variation from prescribed standards with reasons</i>		
	<i>Quantity</i>	<i>Concentration</i>	<i>%variation</i>	<i>Standard</i>	<i>Reason</i>
PH	6.88	6.88	0	6.0 to 8.5	Within Limit
Total Suspended Solids	1.38	10.56	0	<100	Within Limit
Chlorides	12.45	95.21	0	<600	Within Limit
Sulphates	2.73	20.87	0	<1000	Within Limit
TDS	59.57	455.50	0	<2100	Within Limit
BOD	1.28	9.82	0	<30	Within Limit
COD	5.67	43.38	0	<250	Within Limit
O & G	0.66	5.03	0	<10	Within Limit

[B] Air (Stack)

<i>Pollutants Detail</i>	<i>Quantity of Pollutants discharged (kL/day)</i>	<i>Concentration of Pollutants discharged(Mg/NM3)</i>	<i>Percentage of variation from prescribed standards with reasons</i>		
	<i>Quantity</i>	<i>Concentration</i>	<i>%variation</i>	<i>Standard</i>	<i>Reason</i>
TPM	0	28.85	0	<150	Within limit
SO2	3.92	0	0	<360	Within limit
TPM	0	15.90	0	<150	Within limit
TPM	0	15.01	0	<150	Within limit
TPM	0	14.45	0	<150	Within limit
TPM	0	14.55	0	<150	Within limit
TPM	0	14.88	0	<150	Within limit
TPM	0	15.59	0	<150	Within limit
TPM	0	15.01	0	<150	Within limit
TPM	0	16.31	0	<150	Within limit
TPM	0	17.00	0	<150	Within limit
TPM	0	16.68	0	<150	Within limit
TPM	0	13.46	0	<150	Within limit
TPM	0	22.15	0	<150	Within limit
SO2	0.14	0	0	<16.00	Within limit
TPM	0	25.84	0	<150	Within limit
SO2	0.17	0	0	<8.0	Within limit
TPM	0	21.87	0	<150	Within limit
SO2	0.15	0	0	<6.0	Within limit
TPM	0	25.75	0	<150	Within limit
SO2	0.15	0	0	<20.0	Within limit
TPM	0	26.87	0	<150	Within limit
SO2	0.16	0	0	<20.0	Within limit
TPM	0	26.21	0	<150	Within limit

SO2	0.16	0	0	<39.84	Within limit
TPM	0	26.83	0	<150	Within limit
SO2	0.15	0	0	<39.84	Within limit
TPM	0	25.97	0	<150	Within limit
SO2	0.13	0	0	<39.84	Within limit
TPM	0	26.59	0	<150	Within limit
SO2	0.15	0	0	<39.84	Within limit
TPM	0	26.09	0	<150	Within limit
SO2	0.13	0	0	<39.84	Within limit
TPM	0	26.02	0	<150	Within limit
SO2	0.17	0	0	<39.84	Within limit
TPM	0	23.98	0	<150	Within limit
SO2	0.13	0	0	<39.84	Within limit
TPM	0	27.62	0	<150	Within limit
SO2	0.62	0	0	<06.00	Within limit
TPM	0	23.98	0	<150	Within limit
SO2	0.29	0	0	<06.00	Within limit
TPM	0	18.28	0	<150	Within limit
TPM	0	17.20	0	<150	Within limit
TPM	0	16.84	0	<150	Within limit
TPM	0	16.10	0	<150	Within limit
TPM	0	14.92	0	<150	Within limit
TPM	0	15.23	0	<150	Within limit
TPM	0	14.71	0	<150	Within limit
TPM	0	13.92	0	<150	Within limit
TPM	0	14.73	0	<150	Within limit
TPM	0	13.68	0	<150	Within limit
TPM	0	25.22	0	<150	Within limit
SO2	0.12	0	0	<2.0	Within limit
TPM	0	26.28	0	<150	Within limit
SO2	0.13	0	0	<2.0	Within limit
TPM	0	27.85	0	<150	Within limit
SO2	0.14	0	0	<2.0	Within limit
TPM	0	23.44	0	<150	Within limit
SO2	0.11	0	0	<1.5	Within limit
TPM	0	23.24	0	<150	Within limit
SO2	0.13	0	0	<1.5	Within limit
TPM	0	22.45	0	<150	Within limit
SO2	0.24	0	0	<1.5	Within limit
TPM	0	22.75	0	<150	Within limit
SO2	0.20	0	0	<1.5	Within limit

TPM	0	26.93	0	<150	Within limit
SO2	0.13	0	0	<12.8	Within limit
TPM	0	26.89	0	<150	Within limit
SO2	0.09	0	0	<12.8	Within limit
TPM	0	27.01	0	<150	Within limit
SO2	0.09	0	0	<12.8	Within limit
TPM	0	27.13	0	<150	Within limit
SO2	0.13	0	0	<36.0	Within limit
TPM	0	26.00	0	<150	Within limit
SO2	0.11	0	0	<36.0	Within limit
TPM	0	17.21	0	<150	Within limit
SO2	0.79	0	0	<60.0	Within limit
TPM	0	18.87	0	<150	Within limit
SO2	0.73	0	0	<60.0	Within limit
TPM	0	21.63	0	<150	Within limit
SO2	0.15	0	0	<60.0	Within limit
TPM	0	25.41	0	<150	Within limit
SO2	0.67	0	0	<6.24	Within limit
TPM	0	23.34	0	<150	Within limit
SO2	0.60	0	0	<6.24	Within limit
TPM	0	25.27	0	<150	Within limit
SO2	0.09	0	0	<6.24	Within limit
TPM	0	28.04	0	<150	Within limit
SO2	0.83	0	0	<63.00	Within limit
TPM	0	25.92	0	<150	Within limit
SO2	0.55	0	0	<63.00	Within limit
TPM	0	23.92	0	<150	Within limit
SO2	0.13	0	0	<48.00	Within limit
TPM	0	25.90	0	<150	Within limit
SO2	0.13	0	0	<48.00	Within limit
TPM	0	16.20	0	<150	Within limit
TPM	0	15.85	0	<150	Within limit
TPM	0	15.17	0	<150	Within limit
TPM	0	20.63	0	<150	Within limit
TPM	0	20.41	0	<150	Within limit
SO2	0.08	0	0	<2.0	Within limit
TPM	0	15.12	0	<150	Within limit
TPM	0	14.41	0	<150	Within limit

Part-D

HAZARDOUS WASTES

1) From Process

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
5.1 Used or spent oil	349.07	286.87	KL/A
5.2 Wastes or residues containing oil	64.25	57.91	MT/A
5.2 Wastes or residues containing oil	20.31	19.48	MT/A
12.5 Phosphate sludge	8.37	5.79	MT/A
20.1 Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse.	0.11	0.11	MT/A
21.1 Process wastes, residues and sludges	91.73	89.52	MT/A
21.1 Process wastes, residues and sludges	10.03	7.03	MT/A
21.1 Process wastes, residues and sludges	5.79	6.38	MT/A
21.1 Process wastes, residues and sludges	1.9	2.29	MT/A
21.1 Process wastes, residues and sludges	0	0.43	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	754	593	Nos./Y
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	400	0	Nos./Y
Other Hazardous Waste	3.95	8.74	MT/A
Other Hazardous Waste	0.29	0.12	MT/A
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	16581	14254	Nos./Y

2) From Pollution Control Facilities

Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
35.3 Chemical sludge from waste water treatment	66.55	61.41	MT/A

Part-E

SOLID WASTES

1) From Process

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Metal Scrap	3111.19	3065.80	MT/A
Wooden scrap	453.50	480.99	MT/A
Rubber Plastic	19.22	28.55	MT/A
Grinding Dust	107.52	90.45	MT/A
Canteen Waste	185.55	159.43	MT/A
Garbage	856.17	1052.91	MT/A

2) From Pollution Control Facilities

Non Hazardous Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
Biosludge from ETP & Biogas	12.53	6.79	MT/A

3) Quantity Recycled or Re-utilized within the unit

Waste Type	Total During Previous Financial year	Total During Current Financial year	UOM
0	0	0	MT/A

Part-F

Please specify the characteristics(in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

1) Hazardous Waste

Type of Hazardous Waste Generated	Qty of Hazardous Waste	UOM	Concentration of Hazardous Waste
5.1 Used or spent oil	286.87	KL/A	Liquid
5.2 Wastes or residues containing oil	57.91	MT/A	Tarry
5.2 Wastes or residues containing oil	19.48	MT/A	Solid
12.5 Phosphate sludge	5.79	MT/A	Solid
20.1 Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse.	0.11	MT/A	Solid
21.1 Process wastes, residues and sludges	89.52	MT/A	Solid
21.1 Process wastes, residues and sludges	7.03	MT/A	Powdery
21.1 Process wastes, residues and sludges	6.38	MT/A	Tarry
21.1 Process wastes, residues and sludges	2.29	Nos./Y	Solid
35.3 Chemical sludge from waste water treatment	61.41	MT/A	Solid
Other Hazardous Waste	8.74	MT/A	Solid
21.1 Process wastes, residues and sludges	0.43	MT/A	Solid
Other Hazardous Waste	0.12	MT/A	Solid
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	593	Nos./Y	Solid
33.1 Empty barrels /containers /liners contaminated with hazardous chemicals /wastes	14254	Nos./Y	Solid

2) Solid Waste

Type of Solid Waste Generated	Qty of Solid Waste	UOM	Concentration of Solid Waste
Metal scrap	3065.80	MT/A	Solid
Wooden scrap	480.99	MT/A	Solid
Rubber plastic	28.55	MT/A	Solid
Garbage	1052.91	MT/A	Solid
Grinding Dust	90.45	MT/A	Powdery
Biosludge from ETP & Biogas	6.79	MT/A	Semisolid

Part-G

Impact of the pollution Control measures taken on conservation of natural resources and consequently on the cost of production.

Description	Reduction in Water Consumption (M3/day)	Reduction in Fuel & Solvent Consumption (KL/day)	Reduction in Raw Material (Kg)	Reduction in Power Consumption (KWH)	Capital Investment(in Lacs)	Reduction in Maintenance(in Lacs)
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Use of Rain water inside plant	57	0	0	0	0	0
Use of Biogas for electricity generation	0	0	0	20	0	0
Solar water heater system for paint booth	0	0	0	37000	0	0
Installation of plastic to fuel plant	0	0.075	0	0	0	0
Utilisation of treated effluent for toilet flushing	20	0	0	0	0	0

Part-H

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

[A] Investment made during the period of Environmental Statement

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
Provision of ACF to ETP for utilisation of treated effluent to Toilet flushing	Water conservation	0
Use of Water Saver taps for toilet & other cocks in wash basin	Water conservation	0
Rapid Carbon Sequestration Assessment of Trees and Biodiversity survey	Proactive initiative	0
Development of Organic farming	Sustainable farming	0

[B] Investment Proposed for next Year

<i>Detail of measures for Environmental Protection</i>	<i>Environmental Protection Measures</i>	<i>Capital Investment (Lacks)</i>
Not planned	NA	0

Part-I

Any other particulars for improving the quality of the environment.

Particulars

1. First prize in Apex India Awards (Water & Energy Conservation) 2. Installation of LED lamps. 3. Completed & released Carbon foot print report. 4. Celebration of World Environment Day. 5. Received Garden club award for Garden and landscape maintenance. 6. Published Corporate Sustainability Report. 7. CII Water Management Category Received Noteworthy Award.

Name & Designation

Santosh Parab, DGM(Uilities)

UAN No:

MPCB-ENVIRONMENT_STATEMENT-0000082262

Submitted On:

01-09-2025