

ENVIRONMENTAL STATEMENT FORM - V

(See Rule 14)

Environmental Statement for the financial year ending the 31st March 2024

PART - A

- (i) Name and address of the : Sivakumaran. J.
Owner/Occupier of the Industry, Chief Operating Officer,
Operation or process M/s. Kovai Medical Centre & Hospital,
No.99, Avinashi Road,
Coimbatore – 641 014.
Tamilnadu. India.
- (ii) Industry Category : Red
Primary- (STC Code) : ---
Secondary - (STC Code) : 1030 - Healthcare Establishment having total
wastewater generation 100 KLD & above
- (iii) Production capacity - Units :
- | Activity | Consented | Actual (Avg.) |
|--------------------------|-----------------|-----------------|
| No of Beds / In-patients | 1650 Nos | 1580 Nos |
| No of out-patients | 2500 Nos/day | 1478 Nos/day |
| Total Built-up Area | 122410.48 Sq.m. | 122410.48 Sq.m. |
- (iv) Year of Establishment : 1991
- (v) Date of the last environmental : 28.09.2023
Statement submitted

PART - B

Water and Raw Material Consumption

i) Water consumption, m³/day (Avg.)

Process : 117
Cooling : Nil
Domestic : 865

Name of the Products	Process water consumption per unit of products (KL / Bed or Inpatient)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
Inpatients / Beds	0.071	0.042

(ii) Raw Material consumption

Name of the Raw Material	Name of the Product	Consumption of Raw material per unit of output (Tons / Ton of Product)	
		During the previous financial year (2022-23)	During the current financial year (2023-24)
Not applicable	-	-	-

PART - C

Pollution discharged to Environment/ unit of output

(Parameters as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Please Refer <i>Annexure - I</i>		
(b) Air			

PART – D

Hazardous Wastes

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Wastes	Total Quantity (Ton)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
1. From Process	Nil	Nil
2. From Pollution Control Facilities	Nil	Nil

PART – E

Solid Wastes

Solid Wastes	Total Quantity (Tons)	
	During the previous financial year (2022-23)	During the current financial year (2023-24)
From Process –		
• Municipal Solid Waste	493	381
• Bio Medical Waste	538	635
Quantity recycled or re-utilized within the unit	186	156
From Pollution Control Facility	1	1
Sold	-	-
Disposed	846	860

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 waste.

Out of total Municipal Solid Waste generated from the hospital of 381 Tons about 156 Tons is treated through Biogas Plant and 225 Tons is disposed to recyclers. 1 Ton of STP sludge is also utilised with in the plant as manure.

The entire quantity of Bio Medical waste of 635 Tons is disposed to M/s. Tekno Therm Industries, a TNPCB authorised BMWM facility located in Coimbatore.

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PART - G

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

Required Pollution abatement measures has been taken with required budget to control Air, Water, Noise and Solid Waste pollution to maintain the standards prescribed by the statutory authorities and conserve natural resources.

PART - H

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

It is proposed to spent about Rs. 15.0 Lakhs as additional investment for environmental protection including abatement of pollution for the year 2024-2025.

PART - I

Any other particulars for improving the quality of the environment. - **NIL**



Sivakumaran. J.
Chief Operating Officer

ANNEXURE – I

POLLUTANTS DISCHARGED TO ENVIRONMENT – AIR

Source	Quantity of Pollutants discharged, (mass/day)	Concentration of Pollutants discharged, (mass/volume)	Percentages Variation from the prescribed standards*
Boiler (0.6 T/Hr)			
Particulate Matter	1.78 kg/day	37.3 mg/Nm ³	- 75.1
Sulphur Dioxide	0.80 kg/day	6.9 mg/Nm ³	- 98.85
Oxides of Nitrogen	0.31 kg/day	125 mg/Nm ³	-58.3
Carbon Monoxide	0.9 kg/day	20.2 mg/Nm ³	---
DG Set - 2000 KVA			
Particulate Matter	0.51 kg/day [#]	46.4 mg/Nm ³	- 38.1
Sulphur Dioxide	0.06 kg/day [#]	4.8 mg/Nm ³	---
Oxides of Nitrogen	1.59 kg/day [#]	318 mg/Nm ³	- 77.6
Carbon Monoxide	1.22 kg/day [#]	105 mg/Nm ³	- 30.0
DG Set - 1500 KVA			
Particulate Matter	0.25 kg/day [#]	48.7 mg/Nm ³	- 35.0
Sulphur Dioxide	0.02 kg/day [#]	5.8 mg/Nm ³	---
Oxides of Nitrogen	1.09 kg/day [#]	398 mg/Nm ³	- 73.0
Carbon Monoxide	0.52 kg/day [#]	97 mg/Nm ³	- 35.3
DG Set - 1500 KVA			
Particulate Matter	0.48 kg/day [#]	50.2 mg/Nm ³	- 32.9
Sulphur Dioxide	0.05 kg/day [#]	5.2 mg/Nm ³	---
Oxides of Nitrogen	1.53 kg/day [#]	356 mg/Nm ³	- 74.9
Carbon Monoxide	0.98 kg/day [#]	101 mg/Nm ³	- 32.7

* -ve: Below the TNPCB prescribed Limit, * +ve: Above the TNPCB prescribed Limit

[#]Values calculated considering the 2 Hours of DG operation.

POLLUTANTS DISCHARGED TO ENVIRONMENT – WATER

On an average about 692 KLD of sewage generated from the hospital is treated through the Sewage Treatment Plant. The characteristics of treated sewage is as follows.

Source	Quantity of Pollutants discharged, (mass/day)	Concentration of Pollutants discharged, (mass/volume)	Percentages Variation from the prescribed standards
Sewage			
Total Suspended Solids	6.92 kg/day	10 mg/l	- 66.6
BOD at 27°C for 3 days	4.98 kg/day	7.2 mg/l	- 64.0

On an average about 117 KLD of trade effluent is generated from the hospital is treated through the Effluent Treatment Plant. The characteristics of treated effluent is as follows.

Source	Quantity of Pollutants discharged, (mass/day)	Concentration of Pollutants discharged, (mass/volume)	Percentages Variation from the prescribed standards
Effluent			
Total Dissolved Solids	115.2 Kg/day	985 mg/l	- 53.0
Total Suspended Solids	1.98 Kg/day	17 mg/l	- 83.0
BOD at 27°C for 3 days	1.17 Kg/day	10 mg/l	- 43.3
Chemical Oxygen Demand	4.68 Kg/day	40 mg/l	- 84.0
Oil & Grease	0.47 Kg/day	4 mg/l	- 60.0



Sivakumaran. J.

Chief Operating Officer