Dalmia cement
FUTURE TODAY

cement! sugar! refractories! power!

DCBL/OSPCB/003/2025-26/104
September 18, 2025.

To,
The Member Secretary
State Pollution Control Board, Odisha
Paribesh Bhawan,
A/118, Nilakantha Nagar,
Unit-VIII, Bhubaneswar-751 012

Sub: **Submission of Environmental Statement in Form V of M/s Dalmia Cement Bharat Limited (Line-1, 2 & CPP) at Rajgangpur for the Financial Year ending 31st March 2025.**

Dear Sir,

With reference to the above subject matter, we are herewith submitting the environmental statement in Form V of M/s Dalmia Cement Bharat Limited (Line 1, 2 & CPP) at Rajgangpur, District – Sundargarh, Odisha for the financial year ending 31st March 2025.

This is for your kind information please.

Thanking you,

Yours sincerely,

For **Dalmia Cement Bharat Limited,**

Ashok Kumar Mishra
Head - Environment

Encl: Form V

CC: 1. The Regional Officer, OSPCB, Rourkela.
2. Addl. PCCF (C), Regional Office (Eastern Zone), MoEF&CC, Bhubaneswar.

"FORM - V"
(See Rule 14)

ENVIRONMENT STATEMENT FOR THE FINANCIAL YEAR ENDING 31st March 2025

PART - A

(i) Name and address of the owner/ occupier of the industry operation or process.	:	Venkatesan Thyagarajan Dalmia Cement Bharat Limited Rajgangpur 770017 District - Sundargarh (ODISHA)
(ii) Industry category Primary - (STC Code) Secondary - (SIC Code)	:	Red A, Cement
(iii) Production capacity - Units	:	Clinker – 3.3 MTPA Cement – 4.3 MTPA WHRB – 11 MW CPP – 2 X 27 MW
(iv) Year of Establishment	:	1951
(v) Date of the last environmental Statement submitted	:	24.09.2024

PART - B

Water and Raw Materials Consumption

(1) **Water consumption m^3/d.**

Process: 0 m3/day
Cooling: 542 m^3/day
Domestic: 398 m^3/day

Nature of products	Process Water consumption per unit of product output	
	During the Previous Financial Year (2023-24)	During the current Financial Year (2024-25)
Cement	0	0
Clinker	0	0
Power	0.453	0.504

(2) **Raw Material Consumption –**

Name of Raw Material	Name of Products	Consumption of Raw Material per unit	
		During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
Limestone	Clinker	1.3564	1.3564
Ash	Clinker	0.0169	0.0038
Morrum	Clinker	0.0069	0.0146
Red Mud	Clinker	0.0331	0.0239
Sandstone	Clinker	0.0143	0.0132
Slag	Clinker	0.0195	0

Pet Coke	Clinker	0.0769	0.0748
Coal	Clinker	0.0096	0.0008
AFR	Clinker	0.0453	0.0482
Gypsum	Cement	0.0105	0.0098
Slag	Cement	0.3451	0.3040
Ash	Cement	0.2398	0.2646
Pet Coke	Cement	0.0045	0.0056
Coal	Cement	0.0022	0
Grinding Aid & Others	Cement	0.0002	0.0003
Coal	Power	0.0002	0.0009
Rice Husk and Others	Power	0.0009	0.0012

* Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C

Discharged to environment/unit of output specified if the consent issued:

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
Water	Effluent Discharge	Zero Effluent Discharge	Zero Effluent Discharge
Air	Kiln 1 PM – 106.22 Kg/Day	13.58 mg/Nm³	54.72 % Lower
Air	Kiln 1 SO2 – 220.71 Kg/Day	31.43 mg/Nm³	68.57 % Lower
Air	Kiln 1 NOX – 1966.16 Kg/Day	248.24 mg/Nm³	68.97 % Lower
Air	Cooler ESP L1 PM – 82.48 Kg/Day	18.00 mg/Nm³	40.00 % Lower
Air	Coal Mill L1 PM – 14.38 Kg/Day	11.83 mg/Nm³	60.56 % Lower
Air	Kiln 2 PM – 113.45 Kg/Day	7.00 mg/Nm³	76.67 % Lower
Air	Kiln 2 SO2 – 584.20 Kg/Day	38.41 mg/Nm³	61.59 % Lower
Air	Kiln 2 NOX – 3701.74 Kg/Day	231.70 mg/Nm³	71.04 % Lower
Air	Cooler ESP L2 PM – 87.70 Kg/Day	15.58 mg/Nm³	48.06 % Lower
Air	Coal Mill L2 PM –75.07 Kg/Day	20.50 mg/Nm³	31.67 % Lower
Air	CVRM 1 PM – 53.96 Kg/Day	8.92 mg/Nm³	70.28 % Lower
Air	CVRM 2 PM – 50.32 Kg/Day	9.92 mg/Nm³	66.94 % Lower
Air	CVRM 3 PM – 93.35 Kg/Day	9.17 mg/Nm³	69.44 % Lower
Air	CPP PM – 131.58 Kg/Day	23.42 mg/Nm³	53.17 % Lower
Air	CPP SO2 – 2255.96 Kg/Day	405.79 mg/Nm³	32.37 % Lower
Air	CPP NOX – 1449.25 Kg/Day	216.78 mg/Nm³	51.83 % Lower

PART - D

Hazardous Wastes
(As specified under Hazardous Wastes/Management and Trans-Boundary Rules 2016)

Hazardous Wastes	Total Quantity (Tonne)	
	During the Previous Financial Year (2023-24)	During the Current Financial Year (2024-25)
(a) From process	• Used oil / Spent oil – 25.57 T, • Waste / Residue Containing oil – 4.18 T	• Used oil /Spent oil – 27.33 T
(b) From pollution control facilities	NA	NA

PART - E
Solid Wastes

	Total Quantity (In Tonne)	
	During the Previous Financial Year: 2023-24	During the Current Financial Year: 2024-25
a) From process	Ash – 225802 T	Ash – 154217 T
b) From pollution control facility	98.43 % Recycled / Reutilized in the cement manufacturing	98.10 % Recycled / Reutilized in the cement manufacturing
c) (1) Quantity recycled or reutilized within the Unit.	Ash – 220555 T	Ash – 151287 T
d) Sold	NA	Rubber Wastes – 28.35 T
		Waste Parings & Scraps of rubber – 4.23 T
		Waste Pneumatic and other tyres – 2.23 T
		E Wastes – 10.85 T
		Battery Wastes – 4.42 T
e) Disposed	1719 T Disposed to authorized Fly Ash Brick Manufacturers.	Nil

PART - F

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

- No solid wastes generated from cement plant manufacturing process and the fly ash generated from Captive power plant is being utilized for captive cement manufacturing process, which is 98.10 % utilisation of generated ash for FY 2024 - 25.

- Used oil (Category 5.1, as per Schedule–I) and Waste / Residue containing oil (Category 5.2 as per Schedule–1) which is collected in drums & stored in designated HW Storage Sheds before being disposed to authorized recyclers / re-processors.

- Rubber wastes, E-wastes, Tyre wastes and Battery wastes disposed through sale to EPR registered authorized recyclers and re processors.

PART - G

Water conservation:

The Quantity of Recycled Water in FY 2024-25 is 1826 m³/day which is used for Cooling, Dust Suppression, Vehicle Washing and green cover development as well as horticulture.

Energy Conservation:

1. Reduction in Compressed Air Leakages at Line-1 & Line-2 thereby saving of 116.08 Kwh/day.
2. Reduction in false air across various mills, Preheater circuit by arresting the leakages thus saving of 325.15 Kwh/day
3. Reducing in Primary air of Kiln-1 and 2 thereby saving 179.73 kwh/day.
4. Replacement old inefficient reciprocating compressors saving 118.69 Kwh/day.
5. Installation of Regenerative drive for OHT crane at Clinker gate resulting in saving of 21.19 Kwh/day.
6. Optimization of coal mill-1 by change of grinding media leading to saving of 33.91 Kwh/day.
7. Installation of VFD for compressors in coal mill, VRM and Packing house thereby saving 121.51 Kwh/day of energy.

PART - H

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

Environment Expenditure incurred:

- **Capital:** Rs. 149.10 Lakhs
- **Revenue:** Rs. 275.45 Lakhs

Additional Investment Proposed:

1. Upgradation of 300 KLD STP with latest state of the art technology.
2. Installation of New ETP at Line-1
3. Desilting and deepening of Indraprastha Pond at CPP for Surface run off storage.
4. Construction of New clinker storage silo of 60000 Ton in place of old Gantry at Line-1.
5. Rectification and Revamping of KCW silo at Line-1.
6. Installation of mechanized deodorization system at RW storage shed area Line-2.
7. Construction of covered shed with garland drains for storage of RW.

PART – I

Any other particulars for improving the quality of the environment.

1. Total 10772 saplings have been planted with a survival rate of more than 81%.
2. Fixed type Water sprinklers have been installed at all along the roads inside the plant premises to control the fugitive dust emission.
3. 46610 MT of municipal solid waste has been co processed in our cement kiln.
4. Environment awareness training program imparted to workers and executives for improving the quality of environment.
5. World Environment Day – 2024 celebrated among school children from local community followed theme-based competitions.

Remarks:

Dalmia Cement Bharat Limited is taking green initiatives in the field of energy conservation & resource management and is cleaning up legacy municipal solid wastes from various municipalities.

Dalmia Cement Bharat Limited, Rajgangpur

A. Raw Material Details:

Name of Raw Materials	Name of Products	Consumption of Raw Material (Metric Ton)	
		During the Previous FY 2023-24	During the Current FY 2024-25
Limestone	Clinker	3057241	3576838
Ash		38054	10090
Morrum		15525	38491
Red Mud		74570	63107
Sandstone		32259	34709
Slag		44048	0
Pet coke		173393	197170
AFR		102192	127099
Coal		21654	2149
Cinder & others		0	14998
Gypsum	Cement	30945	31115
Slag		1015922	968922
Ash		706046	843199
Coal		6548	0
Pet Coke		13223	17958
Additives		529	1024
Washery Rejects	Power	323225	294915
Rice Husk & Others		68652	404419

B. Production Details:

Name of products	UOM	Production	
		During the Previous FY 2023-24	During the Current FY 2024-25
Clinker	Tons	2253961	2637076
Cement	Tons	2944016	3186973
Power			
CPP (2 X27 MW)	MWh	359112	336893
WHRS (11MW)	MWh	47386	55292

DALMIA CEMENT BHARAT LIMITED RAJGANGPUR