

DCBL-RCW/ENV/21-22/01

Date: 26.09.2022

To
Member Secretary
(Bihar State Pollution Control Board)
Parivesh Bhawan, NS-B/2 Patliputra Industrial Area
PO-Sadakat Ashram Patna-800010

Subject -Submission of Environmental Statement (Form-V) for our Cement Plant for the years 2021-22

Ref: Consent Order No: T-6197

Dear Sir

This has reference to the subject cited above, we are here with submitting an Environmental Statement (Form-V) for the financial year 2021-22 as required under Rule No-14 of the Environment Protection Rules,1986.

This is for your kind information and records, please.

Thanking you

Yours faithfully

(Lokesh Kumar Bahety)

Dalmia Cement Bharat Limited-RCW (Formerly known as M/s Kalyanpur Cements Limited)

Encl: As above



Form-V

(See Rule-14)

Environmental statement for financial year ending 31st March 2021

PART-A

(i) Name and address of the owner/occupier of the industry operation or process Dist-Rohtas Bihar-821303: Dalmia Cement (Bharat) Limited-RCW, Banjari

ii) Industry category : Red (Cement manufacturing unit)

Primary (STS code)

Secondary (SIC code)

(iii) Production capacity-Unit : 1.7 MT Cement (PPC)/Year

(iv) Year of establishment : 11.03 1937 (Taken over by Dalmia Cement (Bharat) Limited on April, 2018

(v) Last Environmental Statement submitted for: 2020-21

PART-B

Water and Raw materials consumption:

Water consumption (M3/day):

Process/Cooling: 405 KL

Domestic: 195 KL

Name of the product	Process water consumption/per unit of product	
	During the previous Financial Year 2020-21	During the current FY 2021-22
	1	2
Cement	Not applicable ,cement production is dry process	

Raw material/Fuel consumption:

Name of the Raw materials	Name of the product (MT)	Consumption of Raw materials/Fuel(MT)/unit (MT) of out put	
		Previous year (2020-21)	Current year (2021-22)
Lime stone	Cement(640630)	793494	719693
Laterite		0	0
Iron ore		1623	0
Fly ash		239917	240467
Gypsum		7188	6397
Bauxite		2471	199
Pet coke & India coal		52678	44350
Redmud		0	31572
Others (Coal)		1332	0

PART-C

**Pollution discharged to Environment
(Parameters as specified in the consent issued)**

Pollutants	Quantity of pollutants discharged Previous year 2020-21	Concentrations of pollutants in discharges in 2021-22	%age of variation from prescribed standards with reasons
a. Water	Dry process is adopted for cement manufacturing. There is no process wastewater generation		
b. Air(Stacks)	Pollutants	Kg/Day	Kg/Day
			%

Raw mill/Kiln	SPM	81	51	Within limit
Cooler	SPM	43	65	Within limit
Coal	SPM	25	34	Within limit
Cement	SPM	20	24	Within limit

Pollutants		Quantity of pollutants discharged Previous year(20-21)	Concentrations of pollutants in discharges 2021-22	%age of variation from prescribed standards with reasons
c. Air(Stacks)	Pollutants	Kg/Day	Kg/day	%
Raw mill/Kiln	SO2	32	16	Within limit
	NOx	2304	2921	Within limit

PART-D

HAZARDOUS WASTE

**[As specified under Hazardous and other wastes
(Management and Transboundary Movement) Rules 2016]**

Hazardous waste	Total quantity	
	During the last financial year	During the current financial year 2021-22
From Process		
Waste oil/Used oil(Liters)	95	72 ltr
Waste grease	Nil	Nil

PART-E
SOLID WASTE

Solid waste	Total quantity in metric ton	
	During the previous financial year	During the current financial year
	Nil	Nil

PART-F

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

Cement Plant:

Waste oils & used grease that are generated is reused back for lubrication of equipments. Any material that is not reusable is being sent to authorized reprocessing/recycling agencies.

Name of the wastes	Quantity (Ltr)	Characteristics	Disposal practice Adopted
Hazardous waste			
Used oil/Spent oil (Category no-5.1)	72	Liquid	A quantity of 72 Ltr sent to authorized recycler

PART-G

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

1. Reduction in specific consumption of water by recycling water to use in process.
2. Reduction in specific consumption of Lime stone with utilization of selective mines.
3. Reduction in specific consumption of Fuel: Implemented new technology & Planned to use Green fuel.
4. Reduction in specific consumption of power: Implemented new technology like energy efficient machinery and VFD.
5. Fly ash is being used for the manufacturing of PPC.
6. Dust collected in the pollution control system is totally recycled back in to the system.
7. Process effluent water is reused for watering greenbelt, gardens Lawns within the plant premises.
8. Conserving the natural resources and minimizing the production cost by the implementation of stringent raw mix controls.
9. Installation of Sewage treatment plant of 150 KLD/Day which is being used in Green belt development & plan to use in process too.
10. Installation of WHRS whose power is being used for

PART-H

Additional measures/investments proposals for environmental protection including Abatement of pollution, Prevention of pollution

1. Conversion of Raw mill ESP to Pulse jet Bag House.
2. Up gradation of cooler ESP ,Conversion of Cement mill ESP to Pulse jet Bag House 4.Replacement of complete bags in coal mill 5.Refurbishment of all dust collecting bag filters at all location in unit by replacing damaged bags and replacing faulty components .
3. Installed Stack emission monitoring/Opacity meter for all 4 stacks.
4. Installed OCEMS ,data is being transfer to CPCB & SPCB server.
5. Remote calibration of gaseous CEMS and installation of O2 analyser in existing SO2/NOx analyzer
6. Mobile water tanker is being engaged to minimize dust on road due to vehicular movements. Water spray is being done in Raw material areas with water tankers.
7. Dust suppression system has been installed
8. Construction of concrete Clinker Silo of capacity 25000MT
9. Construction of Concrete Fly ash silo of capacity 3000 MT

PART-I

Any other particulars for improving the quality of environment.

1. Zero effluent discharge implemented and process water (Used for cooling) generated is being used within the plant for various purposes.
2. All the four stacks are provided with online Continuous Emission monitoring system (OCEMS) to monitor dust emission and same is linked with CPCB & BSPCB. Proper maintenance of pollution control Equipments (OCEMS) is done to ensure proper & effective, uninterrupted data transfer and efficient operation of the same.
3. Environmental monitoring is carried out by the CPCB authorized vender for the Ambient Air, Stack monitoring & water testing quarterly.

4. World Environment Day, Earth day & World water day were also celebrated in our plant to promote awareness among the employee & family.
5. We have planted 5000 nos of saplings of different species inside the plant & colony and targeted for 90 % survival.This effort is continues.
6. Fly ash is being transported in the bulkers & closed containers.
7. Manual sweeping of road & other areas has been replaced by hand operated sweeping machine.

Place: Banjari
Date: 26.09.2022

Signature of the Authorized person


Name: Lokesh Kumar Bahety

Designation: Dy.Executive Director