



JSW Cement Limited

Jambadia, P.O. : Saiyedpur via Salboni
Paschim Medinipur, Pin - 721147
West Bengal
Phone : 03222 270100
Website : www.jsw.in

JSWCL/SALBONI/ENV/2023-24/15

September 25, 2023

To,

The Member Secretary,
West Bengal Pollution Control Board,
Paribesh Bhawan,
10A, Block-LA, Sector-III,
Bidhannagar, Kolkata-700 106.


Subject: Submission of Annual Environmental Statement (Form -V) for the Financial Year 2022 -23.

Respected Sir,

With reference to the above cited subject and as per rule-14 under Environment (Protection) Act, 1986, we are submitting herewith the annual environmental statement of JSW Cement Limited, Salboni, West Bengal for the financial year 2022-23 in prescribed Form-V for your kind perusal please.

Thanking You,

For: JSW Cement Limited, Salboni


Sajeesh G. Kurup
(Vice President & Unit Head)



Enclosure: As mentioned above

CC: 1. The Regional Officer, West Bengal Pollution Control Board. Mouja: Raghunathchak, PS: Bhabanipur, PO: Barghasipur, Dist: Purba Medinipur, Pin: 721657.



JINDAL Part of O.P. Jindal

Regd. Office : JSW Centre
Bandra Kurla Complex
Bandra (East), Mumbai - 400 051
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FORM-V (See Rule 14)

Environmental Statement for the financial year ending the 31st March 2023

PART – A

1.	Name and address of the owner/occupier of the industry operation or process.	:	Nilesh Narwekar CEO JSW Cement Limited, At Village - Salboni, District - Paschim Medinipur, West Bengal-721147
2.	Industry category Primary ----(STC code) Secondary.----- (SIC Code)	:	Red category, Cement Plant.
3.	Production capacity	:	Existing: 3.6 MTPA Cement Grinding Unit and 1 X 18 MW CPP
4.	Year of establishment	:	2017
5.	Date of the last environmental statement submitted	:	29.09.2022

PART – B

Water and Raw Material Consumption:

(i) Water Consumption (m³/Day)

Process	: Nil
Cooling	: 126
Domestic	: 4.5

Nature of products	Process Water consumption per unit of product output (m3/MT)	
	During the previous financial year(2021-22)	During the current financial year (2022-23)
Cement	Nil	Nil

(ii) Raw Material Consumption:

Raw material consumption				
Sl.No.	Name of raw Material	Name of the Product	Consumption of Raw Material Per Unit	
			During the Previous Financial Year FY 2021-22 (MT/MT)	During the Current Financial Year FY 2022-23 (MT/MT)
1	Clinker	Cement (PSC & CC)	0.33	0.29
2	Gypsum		0.03	0.03
3	Slag		0.62	0.67
4	Fly ash		-	0.01



PART – C

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

Sl. No.	Pollutants	Quantity of Pollutants discharged(Mass/Day)	Concentration of Pollutants discharges (mass/volume)	Percentage of variation from prescribed standards with reasons					
1	Water	Nil	Nil	Nil					
2	Air	Ambient (Avg. Data)	SI. No.	Name of Station	PM2.5 (mg/m3)	PM 10 (mg/m³)	SO2 (mg/m³)	NOx (mg/m³)	CO (mg/m³)
			1	Station-1 (N)	27.50	58.53	10.48	27.02	0.35
			2	Station-2 (NW)	24.92	50.52	9.88	25.86	0.31
			3	Station-3 (E)	27.60	55.46	12.22	27.81	0.36
			4	Station-4 (S)	35.13	67.81	13.37	33.60	0.47
			5	Station-5 (SSW)	29.93	57.49	11.63	32.78	0.52
			6	Station-6 (NE)	26.60	54.22	11.53	30.70	0.27
		Stack	Cement Mill (Unit-I) =17.95 Kg/Day Cement Mill (Unit-II) = 25.56 Kg/Day Ball Mill =10.69 Kg/Day Coal Mill = 1.73 Kg/Day	Cement Mill (Unit-I) = 17.20 mg/Nm3 Cement Mill (Unit-II) = 19.28 mg/Nm3 Ball Mill = 10.62 mg/Nm3 Coal Mill = 13.71 mg/Nm3	Cement Mill (Unit-I) = 42.66 % Cement Mill (Unit-II) = 35.73 % Ball Mill = 64.61 % Coal Mill = 54.3 %				

PART – D

Hazardous Wastes (as specified under Hazardous Waste Management and Handling Rules, 2016)

Sl. No.	Hazardous Wastes	Total Quantity	
		During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
a.	From Process		
(i)	Used or Spent Oil (Category-5.1)	1.08 MT	2.1 MT
(ii)	Wastes or Residues Containing Oil (Category-5.2)	0.6 MT	0.3 MT



(iii)	Empty Barrels/Containers/Liners Contaminated with Hazardous Chemicals/Wastes (Category-33.1)	Nil	Nil
b.	From Pollution Control Facilities	Nil	Nil

PART – E

Solid Wastes

Sl. No.	Solid Wastes	Total Quantity in MT	
		During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
a.	From Process	Nil	Nil
b.	From Pollution Control Facilities (ESP of Captive Power Plant)	Fly Ash :13230 Bed Ash: 815	Fly Ash: 984.23 Bed Ash: 109.36
c.	Quantity recycled or reutilized	Fly Ash :13230 (Utilized in own cement plant) Bed Ash: 815 (Used in internal road construction)	Fly Ash: 984.23 (Utilized in own cement plant) Bed Ash: 109.36 (Used in internal road construction)

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 of wastes.

Sl. No.	Description of Hazardous Waste	Quantity of waste generated during the year	Disposal Method
1	Used or Spent Oil (Category-5.1)	2.1 MT	1.0 MT was in storage at the end of FY 2021-22. So out of total 3.1 MT the 1.5 MT used for lubrication of Machineries, & 1.6 MT is in storage at the end of FY 2022-23.
2	Wastes or Residues Containing Oil (Category-5.2)	0.3 MT	0.5 MT was in storage at the end of FY 2021-22. So out of total 0.8 MT the 0.4 MT used for lubrication of Machineries, & 0.4 MT is in storage at the end of FY 2022-23.



2	Empty Barrels/Containers/Liners Contaminated with Hazardous Chemicals/Wastes (Category-33.1)	Nil	-
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Other Solid Wastes:

Sl. No.	Description of Waste	Qty. of waste generated during the year	Disposal Method
1	Iron chips.	1968.94 MT	Sold to Authorized Vendors.
2	Steel Scrap	372.45 MT	Sold to Authorized Vendors.
3	Waste H.D.P.E Bags	23.92 MT	Sold to Authorized Vendors.
4	Waste wrappers	24.52 MT	Sold to Authorized Vendors.
5	Waste Tarpaulins	21.72 MT	Sold to Authorized Vendors.
6	Scrapped Conveyor Belt Various Size	18.82 MT	Sold to Authorized Vendors.
7	E-Waste	2.02 MT	Sold to Authorized Vendors.

PART – G

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

- ✚ The unit has installed bag filters and ESP in its roller press and CPP respectively to maintain the emission within given permissible limit of 30 mg/Nm³.
- ✚ The unit has installed continuous emission monitoring system in each stack to monitor real time stack data.
- ✚ The unit has installed one Continuous Ambient Air Quality Monitoring Station.
- ✚ In addition, we are successfully managing the ambient SPM level below the prescribed levels by way of putting up Jet Pulse Filters at each of the transfer points, covered belt conveyers, and mostly paved surfaces for vehicular movement inside the plant premises.
- ✚ The unit have installed STP of 60 KLD for waste water treatment.
- ✚ The unit also installed a 100 KLD STP during the reporting financial year to treat the waste water and treated water used for dust suppression & for the development of green belt/plantation.
- ✚ The unit has made all the internal road concrete and it is swiped with help of truck mounted Road Sweeping Machine.
- ✚ The unit has installed 3.5 MW Solar Plant to minimize the dependency on non - renewable resources.



- ✚ Installation of Variable Frequency Drives in Water Pumps & automation of plant water supply system, resulting in reduction of Power consumption of Plant water supply system.
- ✚ The unit has installed Ball Mill in series at downstream of roller press for clinker grinding has reduced energy consumption of Roller press and clinker factor also reduced.

PART – H

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

- ✚ The unit is planning to construct rain water harvesting ponds to use the rain water to reduce the load on consumption of natural raw water.
- ✚ The unit is planning for additional greenbelt in and around the plant.

PART – I

Any other particulars for improving the quality of the environment.

- ✚ Awareness promotion through various environmental training, environmental competitions, presentations etc. on World Environment Day, Energy Conservation Day etc.
- ✚ The unit is planning to harvest more solar energy.
- ✚ All the internal road swiped with the truck mounted Road Sweeping Machine to keeping environment dust free.
- ✚ Dust leakages arrest whenever occur.

