



CIN: L2942OR1985PLC001557

SHIVA CEMENT LIMITED

AT: TELIGHANA
P.O. BIRINGATOLI
TEHSIL : KUTRA
DIST.: SUNDARGARH,
ODISHA, INDIA, PIN 770018

SCL/6000-09/2022/97

14.09.2022

To

The Member Secretary
State Pollution Control Board, Odisha
Department of Forest & Environment, Govt. of Odisha
Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII
Bhubaneswar – 751012, Odisha.

Sub: Environmental Statement for the financial year ending 31st March, 2022 for M/s Shiva Cement Limited.

Dear Sir

With reference to the above mentioned subject, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for M/s Shiva Cement Limited for the financial year ending 31st March 2022.

Kindly acknowledge the receipt.

Thanking You,

Yours faithfully,
For M/s SHIVA CEMENT LIMITED

(Unit Head)
Anil Mishra

Encl:

Annual Environment Statement for the FY 2021-22

Copy to:

Regional Officer, OSPCB, Sector – 5, Rourkela – 769002, Dist. Sundargarh (Odisha)

[FORM – V]

(See Rule 14)

Environmental statement for the financial year ending the 31st March 2022

PART – A

- (i) Name and address of the owner/occupier of : **SRI MANOJ KUMAR RUSTAGI**
the industry operation or process **M/s. Shiva Cement Limited**
Vill : Telighana, PO. Biringatoli,
Via. Kutra, Dt. Sundargarh (Odisha)
PIN - 770018
- (ii) Industry category Primary – (STC Code) : **NA**
Secondary – (SIC Code) : **3241**
- (iii) Production Capacity – Units : **Cement: 0.252 MTPA**
Clinker: 0.165 MTPA
- (iv) Year of Establishment : **1998**
- (v) Date of last environmental statement submitted: **21.09.2021**

PART – B

Water and Raw Material Consumption

- (i) Water consumption m3/d
- | | | |
|------------------|---|----------------------|
| Process | : | N.A |
| Cooling | : | 33 M ³ |
| Domestic | : | 60.50 M ³ |
| Dust Suppression | : | 11 M ³ |
| Green Belt | : | 5.5 M ³ |

Name of Products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
	(1)	(2)
CEMENT	Not Applicable	Not Applicable

Substituted by Rule 2 (b) of Environment (Protection) Amendment Rules, 1993 notified vide G.S.R 386 (E) dated 22.04.1993.

(ii) Raw material consumption

Name of materials	Name of Products	Consumption of raw material per unit of out put	
		During the previous financial year (MT)	During the current financial year (MT)
Limestone	Clinker	1.26	1.29
Additive	Clinker	0.22	0.19
Coal	Clinker	0.28	0.09

Slag	Cement	0.16	Nil
Gypsum	Cement	0.05	0.07

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

PART – C

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

(1) Pollutants	Quality of Pollutants discharged (mass/day)	Concentrations of pollutants discharges (Mass/volume) (Mg/Nm ³)	Percentage of variation from prescribed standards with reasons.
(a) Water	Nil	NA	NA
(b) Emission Monitoring	Emission Monitoring report is attached as Annexure-I		Within the prescribed Limited
(c) Ambient Air	Ambient Air Monitoring report is attached as Annexure-II		Within the prescribed Limited

PART – D

HAZARDOUS WASTES

[(As specified under [Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008]]

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
	52 Litrs.	264 Litrs.

Hazardous wastes (Management, Handling and Transboundary Movements) Rules, 2008 notified vide S.O. 2265 (E)

PART – E Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
	No Solid Waste is being generated from the plant	No Solid Waste is being generated from the plant

(a) From process: NIL

(b) From pollution control facilities: **Dust Collected by the bag filters is automatically recycled in the process**

(c) (1) Quantity recycled or re-utilized within the unit.

(2) Sold

(3) Disposed

PART – F

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

Hazardous Waste			
Sl. No	Name of waste	Generation quantity	Disposal method
1	Used oil /Spent Oil	0.264 KL	✓ Stored in the Impervious layer inside the Hazardous Waste Shed ✓ Sold to Authorized Recyclers /Reprocessors
2	Waste Containing Oil	Nil	✓ Stored in the Impervious layer inside the Hazardous Waste Shed ✓ Sold to Authorized Recyclers /Reprocessors

SCL has got the authorization from OSPCB vide letter no. IND-IV-HW-1032 on dated 30.04.2022 for handling of hazardous waste which is valid till 31.03.2023.

Solid Waste			
Sl. No	Name of waste	Generation quantity	Disposal method
1	Solid Waste	No Solid Waste generated from the Plant	Dust Collected by the bag filters is automatically recycled in the process.

PART – G

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

- Domestic waste water is being treated in soak pit via septic tank.
- Regular monitoring of Ambient Air Quality by a NABL accredited agency to meet the prescribed standard by concerned authority.
- Green belt has been developed inside the plant premises.
- 1 no. of rain water harvesting structure has been developed with recharge well.
- Particulate Emissions are maintained less than 30 mg/Nm³.
- All transfer points are provided with bag filters to control the particulate emission and emissions are maintained below 30 mg/Nm³.
- Dust collectors and extraction system are installed to control fugitive dust at coal and limestone unloading points and at all the transfer points to arrest dust.
- All the transfer points are provided with dedicated dust collectors. 8 nos of Bag filters are installed at various locations.
- Water spray provided by 2 nos of mobile water tankers to control fugitive emissions generated from roads, raw material sheds.

- Internal roads have been made of concrete.
- Regular cleaning is carried out. CPCB's guideline is followed to control fugitive emission.
- All raw materials are transported through covered trucks. Finished product i.e. cement is transported by covered trucks

PART – H

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

- Green belt has been developed inside the plant premises.
- 1 no. of rain water harvesting structure has been developed with recharge well.
- All the transfer points are provided with dedicated dust collectors. 8 nos of Bag filters are installed at various locations.
- Water spray provided by 2 nos of mobile water tankers to control fugitive emissions generated from roads, raw material sheds.
- Internal roads have been made of concrete.
- Regular cleaning is carried out. CPCB's guideline is followed to control fugitive emission

PART – I


Any other particulars for improving the quality of the environment.

Following initiatives taken by M/s Shiva Cement Limited to improve the Environment-

- Concrete road developed in the coal yard area.
- Plantation done in vacant areas.
- Digital water flow meter has been installed in all bore well for tracking the water consumption on regular basis.
- Piezometer has been installed to track the ground water level on regular basis.
- Manual Sweeping machine has been procured to maintained a good housekeeping in working zone area,

For Shiva Cement Limited




(Anil Mishra)

Unit Head

STACK EMISSION REPORT (AVG.) FY 2021-22

Sl. No.	Stack attached to	Particulate Matter (mg/Nm³)
1	Kiln	28.3
2	Raw Mill	24.6
3	Coal Mill	23.2
4	Cement Mill	28.4

AMBIENT AIR QUALITY REPORT (AVG.) FY2021-22

Sl. No.	Locations	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1	Near Main Gate	56.6	30.9	6.8	21.3	0.31
2	Near Office Area	52.5	28.4	6.4	19.4	0.27
3	Near Kiln Area	57.1	31.2	6.7	20.9	0.30
4	Colony Area of SCL	46.1	24.3	6.2	18.5	0.25