CIN NO. : L26943RJ1979PLC001935 Phone : EPABX 01462 228101-6

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E-mail : shreebwr@shreecementltd.com

Website : www.shreecement.com

SHREE JHARKHAND CEMENT PLANT

(A UNIT OF SHREE CEMENT LTD.)

Vill : Hansda-Burudih, Dist : Seraikela Kharsawan, Jharkhand 833220

SCL/Jharkhand/Env.Statement/2019-20/755



Date: 18.09.2019





To.

The Member Secretary,
Jharkhand State Pollution Control Board,
T.A. Division Building (Ground Floor).
H.E.C. Dhurwa, Ranchi-834004

Sub: Environmental Statement of M/s. Shree Jharkhand Cement Plant (A unit of Shree Cement Limited) for the period from April 2018 to March 2019 under Environmental Protection Act, 1986.

Ref: CTO Letter No.- JSPCB/HO/RNC/CTO-4431947/2019/557 dated 22/03/2019.

Dear Sir,

We are submitting herewith Environmental Statement for the period from April, 2018 to March, 2019 for Cement Grinding Unit M/s. Shree Jharkhand Cement Plant (A unit of Shree Cement Limited) located near Village – Hansda, PO – Burudih, Dist. – Seraikela-Kharsawan, Jharkhand. The plant has been commissioned in the month of May 2019.

Submitted for your kind information please.

Thanking you,

Yours faithfully,

For Shree Lharkhand Cement Plant (A unit of Shree Cement Ltd.)

(Ashok Kumar)

Sr. Manager (Operations)



CC:

PANCHI

The Additional Principal Chief Conservator of Forests (APCCF), Ministry of Environment, Forest and Climate Change, Regional Office (Ranchi), Bungalow No. A-2, Shyamali Colony, Ranchi-834002

The Regional Officer, JSPCB, Regional office cum laboratory, M.15, New Housing Colony, Adityapur, Jamshedpur – 831013

, Jamshedpur – 831013

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JAIPUR OFFICE: SB-187, Opp. Rajasthan University, JLN Marg, Jaipur 302 015

Phone: 0141 6611200, 6611204, Fax: 0141 6612219

NEW DELHI OFFICE: 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110 002

Phone: 01123370828, 23379218, 23370776, Fax: 011 23370499

CORP. OFFICE: 21, Strand Road, Kolkata 700 001, Phone: 033 22309601-4, Fax: 033 22434226

ENVIRONMENTAL STATEMENT

M/s Shree Jharkhand Cement Plant (A Unit of Shree Cement Limited) Period from April 2018 to March 2019

FORM - V (See Rule-14)

PART - A

1.	Name and address of the Owner / Occupier of the Industry operation or process	Shree Jharkhand Cement Plant (A Unit of Shree Cement Limited) Village-Hansda, PO-Burudih, DistSeraikela-Kharsawan, Jharkhand -833210
2.	Industry Category Primary (S.T.C. Code) Secondary (S.T.C. Code)	Red Category
3.	Production Capacity	2.5 Million TPA Cement
4.	Year of Establishment	2019
5.	Date of the last Environmental Statement Submitted	This is the 1 st Environmental Statement, as the plant has been commissioned in the month of May 2019.

<u>PART - B</u> WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

1

Process	Nil, as the plant has been commissioned in the month of May 2019.		
Cooling			
Dust Suppression	20 m³/day	Water was consumed during project stage.	
Domestic	40 m ³ /day		
Construction	50 m ³ /day		

T.	Process Water Consumption per Unit of Product Output		
Name of Product	During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)	
Cement	Nil, as the plant has been commissioned	in the month of May 2019.	



(II) RAW MATERIAL CONSUMPTION:

Name of Raw Material	Name of Product	Consumption of Raw Material Per Unit of Output (Cement)			
		During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)		
1. Clinker	ax = 1000 =	Nil, as the plant has been commissioned in			
2. Gypsum	£		the month of May 2019.		
3. Fly Ash	Cement				
4. Performance Improver					
5. Bed Ash (in Cement)	•				

(III) POWER CONSUMPTION (KWH/T OF Cement):

T1 1 7 7
Financial Year
(2018-2019)
ŀ

(IV) TOTAL CEMENT PRODUCTION (MT):

During Previous	During Current
Financial Year	Financial Year
(2017-2018)	(2018-2019)

PART – C DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT

Pollutants	Quantity of Pollutants Discharged (Mass/Day)	Concentration of Pollutants in Discharge (Mass/Value)	Percentage of variation from prescribed standard with reasons
(a)	Water		e water generated from office send to soak pit via septic tank.
(b)	Air	Please refer Annexure – 1	



PART – D HAZARDOUS WASTE

(As specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2016)

Hazardous	Total Quantity (Ltrs.)		
Waste	During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)	
a) From Process (Cement manufacturing is based on "Dry Process" No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments)	No Hazardous waste has been generated		
(b) From Pollution Control Facilities			

PART – E SOLID WASTE

		Total Quantity	
		During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)
(a)	From Process	There is no solid waste generated from our cem grinding unit.	
(b)	From Pollution Control Facility		
(c)	Quantity rejected or re- utilized within the unit		
	2. Sold		
	3. Disposed		

PART - F

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

Hazardous Wastes

No Hazardous waste has been generated as the plant was commissioned in the month of May 2019.

Bio-Medical Wastes

	Bio-Medical Waste Quantity (Kg) as per Color Coding			
	Red	Blue/White	Yellow	Black
April 2017 to March 2018	Nil, as the plant has been commissioned in the month of May			
April 2018 to March 2019	2019.	od Gemon		

E- Wastes:

303 8	Total Quantity		
	During Previous Financial Year (2017-2018)	During Current Financial Year (2018-2019)	
From Process	Nil, as the plant has been commissioned in the month		
From Pollution Control Facility	of May 2019.		

Solid Wastes: - Not Available, as the plant has been commissioned in the month of May 2019.

Battery Wastes:

As specified under Batteries (Management and Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories.

	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1st Apr	2018 to 31st Mar 2019	
	Category:	(i) No. of Batteries	(i) Approximate Weight (In Metric Tonnes)	
	(i) Automotive			
١.	a) Four wheeler	Nil	Nil	
	b) Two wheeler	Nil	Nil	
	(ii) Industrial			
	a) UPS	Nil	Nil	
	b) Motive Power	Nil	Nil	
	c) Stand -by	110	0.55	
	(iii) Others	Nil	Nil	
	Total	110	0.55	
	Number of used batteries of categories mentioned in SI. No 1 and Tonnage of scrap sent manufacturer/dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent	During 1st Apr 2018 to 31st Mar 2019		
	Category:	(i) No. of Batteries	(i) Approximate Weight (In Metric Tonnes)	
2.	(i) Automotive			
	a) Four wheeler	Nil	Nil	
	b) Two wheeler	Nil	Nil	
	(ii) Industrial		van Sv	
	a) UPS	Nil	Nil	
	b) Motive Power	Nil	Nil	
	c) Stand -by	Nil	Nil	
		Nil	Nil	
	(iii) Others	INII	INII	

PART-G

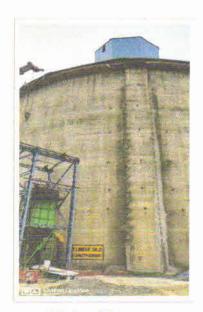
IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION

M/s Shree Jharkhand Cement Plant (A Unit of Shree Cement Limited) is a clinker grinding unit and is operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of roller press for pre grinding of clinker is an energy conservation process. The stack emissions from the plant are controlled by equipment like Bag Houses and 57 numbers of Bag Filters installed at various material transfer points to clean the process and arrest the fugitive emissions. The particulate matter collected in the pollution control equipment is recycled in process and neutralizing the cost of operation of pollution control equipments and hence no cost impact on the production cost. Further fly ash is also being utilized in the production of PPC cement thus eliminating the harmful impacts on environment.

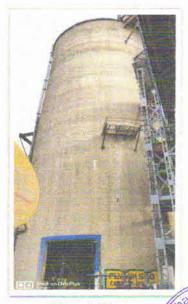


(Image Showing Baghouse of cement mill)

Moreover, to control the dust nuisance emission effectively, M/s Shree Jharkhand Cement Plant has constructed concrete silos and covered yard to store raw materials and end product.



(Clinker Silo)



(Fly ash Silo)



(Cement Silo)

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(Gypsum Yard)

PART - H

ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION

Green belt development and tree plantation is our ongoing activity within the plant area and outside of the plant area. Every year plantation activities are being done to increase the bio-diversity of the area. Till 31st March, 2019, we have covered 21.78 acres with around 3677 nos. of trees. During the FY 2019- 20 we have a target of planting around 2500 nos. of tree species.



(Plantation inside plant premises)

PART-I

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- 1. We have full-fledged Environment Department with separate cells for monitoring, maintenance of pollution control equipment and Green Belt development.
- 2. To control fugitive dust nuisance and for better housekeeping, two number of vacuum sweeping & cleaning machine has been engaged. Moreover, all the material transfer belts are covered and transfer points are equipped with pollution control equipment. To further control fugitive dust nuisance, we are developing concrete area within the vehicle movement area.
- 3. Frequent monitoring and analyses of data for ambient air quality, ambient noise and ground water quality & levels is being done during to lect stage to improve the environment quality of the plant area.

- 4. Special attention has been given to Green belt development with planting tree of different species inside and outside of the plant area.
- 5. 17 number of solar LED street light has been installed inside plant premises which is ecofriendly.
- 6. We have installed Continuous Emission Monitoring System (CEMS) and 4 numbers of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) for real time monitoring and to display the data on SPCB and CPCB web sites.
- 7. We have installed STP of capacity 10 KLD.
- 8. We are developing 6 numbers of Rain Water Harvesting Structure to recharge ground water.

On the support of above, we are enclosing herewith following documents: -

Annexure-1: Ambient Air Quality monitoring report (PM10, PM2.5, SO₂ and NO2)

Annexure-2: Ambient Noise Level monitoring report

Annexure-3: Vacuum sweeping & cleaning machine

Annexure-4: Solar LED street light

Shree Jharkhand Cement Plant (A unit of Shree Cement Limited)

Locations Parameters	Plant boundary near Logistic building				Plant boundary near Rain water harvesting pond				Plant boundary near Railway Siding				Plant boundary near Maharaja fabrication office			
	PM ₁₀	PM _{2.5}	SO ₂	NOx	PM ₁₀	PM _{2.5}	SO ₂	NOx	PM ₁₀	PM _{2.5}	SO ₂	NOx	PM ₁₀	PM _{2.5}	SO ₂	NOx
Norms	60	40	50	40	60	40	50	40	60	40	50	40	60	40	50	40
Oct-18	44	28	10	12	46	27	12	11	48	29	11	13	48	27	9	12
Nov-18	48	30	11	11	48	29	10	12	52	31	10	12	52	26	- 11	13
Dec-18	46	29	12	13	49	28	10	13	53	33	12	13	54	26	10	11
Jan-19	49	28	12	14	50	30	11	13	50	33	13	14	53	28	- 11	13
Feb-19	50	30	13	14	51	31	12	15	55	34	11.	14	56	31	9	12
Mar-19	53	32	15	15	55	34	12	16	56	36	12	15	57	34	13	14
Average	48.33	29.50	12.17	13.17	49.83	29.83	11.17	13.33	52.33	32.67	11.50	13.50	53.33	28.67	10.50	12.50



Shree Jharkhand Cement Plant (A unit of Shree Cement Limited)

Locations	A STATE OF THE STA	indary near c building		lary near Rain vesting pond		andary near ay Siding	Plant boundary near Maharaja fabrication office		
Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	
Norms	75	70	75	70	75	70	75	70	
Oct-18	63.2	58.4	62.8	55.9	71.6	65.3	69.7	60.4	
Nov-18	65.4	56.8	65.9	55.7	70.8	68.2	70.2	61.5	
Dec-18	60.7	54.3	68.3	59.7	69.8	66.9	68.3	59.8	
Jan-19	69.5	56.4	70.2	59.6	72.8	68.4	71.5	62.4	
Feb-19	67.4	55.9	69.4	58.7	70.6	64.8	69.5	60.3	
Mar-19	68.7	58.7	70.8	60.7	71.8	65.7	70.6	59.4	



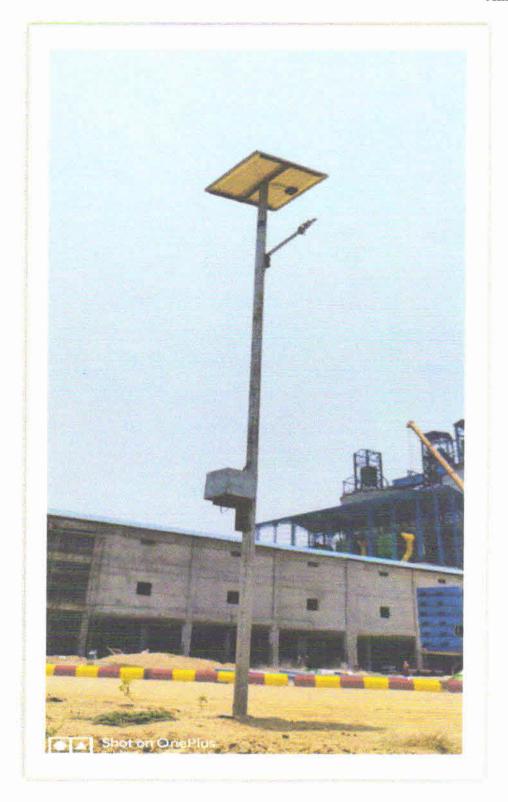
Annexure: 3



(Vacuum sweeping & cleaning machine)



Annexure: 4



(Solar LED street light)

