CIN No. : L26943RJ1979PLC001935 Phone : 01462 228101-6 Toll Free : 1800 180 6003 / 6004 Fax : 01462 228117 / 228119 E-Mail : shreebwr@shreecement.com Website : www.shreecement.com

SHREE CEMENT L D.

An ISO 9001, 14001, 45001 & 50001 Certified Company Regd. Office:

BANGUR NAGAR, POST BOX NO.33, BEAWAR 305901, RAJASTHAN, INDIA

SCL/BWR/ENV-9 /2020-21/

To,

K160

Date: 22/09/2020

File No. C-146

The Member Secretary, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri Road, JAIPUR-302004 (Rajasthan).

Sub:- Environmental Statement Report of Synthetic Gypsum Manufacturing Plant of M/s Shree Cement Ltd, Village - Andheri Deori, Tehsil - Masuda, District - Ajmer (Raj) for the period of April 2019 - March 2020.

Ref: - CTO No. - F (CPM)/ Ajmer (Masuda)/2(1)/2018-2019/3508-3510 dated -31/12/2019.

Dear Sir.

Kindly refer to above subject matter and referred letter. In this regard, we are submitting herewith the Environmental Statement Report of Synthetic Gypsum Manufacturing Plant of M/s Shree Cement Ltd, Village – Andheri Deori, Tehsil - Masuda, District - Ajmer (Raj) for the period of April 2019 - March 2020.

This is for your kind information please.

Thanking you, Yours faithfully,

For Shree Cement Ltd;

(Dr. Anil Kumar Trivedi) Sr. G.M. Environment

Copy to:-

1. The in charge (Regional office), Rajasthan State Pollution Control Board, SPL-II, 5th phase, RIICO Industrial Area, Kishangarh, Ajmer (Raj).

JAIPUR OFFICE : SB-187, Bapu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015 Phone: 0141 4241200, 4241204

NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bahadurshah Zafar Marg, New Delhi 110002 Phone : 011 23370828, 23379218, 23370776

CORP. OFFICE : 21, Strand Road, Kolkata 700001 Phone : 033 22309601-4 Fax : 033 22434226



<u>ENVIRONMENTAL STATEMENT</u> <u>Synthetic Gypsum Manufacturing Plant</u> <u>M/s Shree Cement Limited</u> <u>Beawar, Rajasthan</u> <u>Period from : April, 2019 to March, 2020</u>

FORM - V

$\underline{PART} - \underline{A}$

	Name and address of the Owner /	M/s Shree Cement Ltd.
	Occupier of the Industry	Bangur Nagar,
1.	operation or process	P.O. Box No. 33,
		Beawar- 305901
		Distt. Ajmer (Rajasthan)
1	Industry Category	
2.	Primary (S.T.C. Code)	Red Category
	Secondary (S.T.C. Code)	
3.	Production Capacity	1350 TPD
4.	Year of Establishment	2009
5.	Date of the last Environmental	18/09/2019
(TRINGER)	Statement submitted	

<u>PART – B</u>

WATER AND RAW MATERIAL CONSUMPTION

71343 KL

:

:

1. WATER CONSUMPTION:

Process & Cooling

Domestic

265923 KL (Common for Cement Plants & Power Plants)

	Process Water Consumption per Unit of Output			
Name of Product	During Previous Financial Year (2018 - 19)	During Current Financial Year (2019 - 20)		
Synthetic Gypsum	0.389 KL/MT	0.390 KL/MT		

2. <u>**RAW MATERIAL CONSUMPTION:**</u>

Name of Raw Material	Name of	Consumption of Raw Material Per Unit of Output (Gypsum) KL/MT	
	Product	During Previous Financial Year (2018 - 19)	During Current Financial Year (2019 - 20)

1. Water		0.389 KL/MT	0.390 KL/MT
2. Sulphuric Acid	Synthetic	0.405 KL/MT	0.416 KL/MT
3. Spent Sulphuric Acid	Gypsum	0.040 KL/MT	0.121 KL/MT
4. Lime Stone	Elanata), istra	0.675 MT/MT	0.699 MT/MT

3. <u>POWER CONSUMPTION (KWH/T OF SYNTHETIC GYPSUM):</u>

Dur	ing Previous Financial Year (2018 - 19)	During Current Financial Year (2019 - 20)	
	7.336 KWh/MT	8.363 KWh/MT	

4. TOTAL SYNTHETIC GYPSUM PRODUCTION (MT):

Product	During Previous Financial Year (2018 - 19)	During Current Financial Year (2019 - 20)
SYNTHETIC GYPSUM	154790	182723

<u>PART – C</u> <u>DISCHARGED TO ENVIRONMENTAL / UNIT OF OUTPUT</u>

Pollutants	Quantity of Pollutants	Concentration of Pollutants	Percentage of variation from prescribed
	Discharged	in Discharge	standard with reasons
	(Mass/Day)	(Mass/Value)	
(a)	Water	There is no effluent general gypsum plant. Domestic waste water gen colony, canteen, guest house units cement and power plan and treated water and sludy horticulture activities. Tota domestic waste water during KL. Residential colony and g Shree Cement Limited Unit Plants. Analysis report of STR	ation from the synthetic nerated from residential e and office toilets of all at is being treated in STP ge generated is used in cal quantity of treated (FY 2019-20 was 88,670 puest house is common for 1& 2, Mines and Power P treated water is attached
(b)	Air	Dlagge refer Annovure 1 &	2
(0)	Alf	riease ieiei Annexure – 1 &	4

$\underline{PART - D}$

HAZARDOUS WASTE (As specified under Hazardous & Other Wastes (Management & Trans boundary Movement Rule, 2016) & Amendment rule, 2019.

Hazardous	Total Qu	antity (Ltrs.)		
Waste	During Previous	During Current		
101 4234004 224	Financial Year	Financial Year		
	(2018-2019)	(2019-2020)		
a)From Process	We have Common	We have Common authorization		
(Cement	authorization for Hazardous	for Hazardous Waste Management		
manufacturing	Waste Management &	& Handling for Unit 1& 2, D.G.		
is based on	Handling for Cement Plant	Sets, Power Plants, Synthetic		
"Dry Process"	(Unit 1 & 2), D.G. Sets, Power	Gypsum and Mines.		
No Hazardous	Plants, Synthetic Gypsum Plant			
waste is	and Mines			
generated from		Total Quantity generated from		
the process	Linearitin I	April-2019 to March-2020		
except used oil	Total Quantity generated from	= 1200 Ltrs.		
which is	April-2018 to March-2019	Old Stock $= 0$ Ltrs.		
drained from	= 800 Ltrs.	Total Used oil = 1200 Ltrs.		
Machinery /	Old Stock $= 0$ Ltrs.	Sold-out to registered recycler		
Equipments)	Total Used oil = 800 Ltrs.	= 0 Ltrs.		
their free work (Lin)	Sold-out to registered recycler	Quantity Co- processed = 1200		
and the state	= 0 Ltrs.	Ltrs.		
deanno Laserable	Quantity Co- processed = 800	Balance Quantity= 0 Ltrs		
	Ltrs.			
	Balance Quantity= 0 Ltrs			
(b) From		and an and the second		
Pollution	NT A			
Control	N.A.	N.A.		
Facilities				

$\underline{PART - E}$

SOLID WASTE

		То	Total Quantity		
	Presentation and Densind	During Previous Financial Year (2018-2019)	During Current Financial Year (2019-2020)		
(a)	From Process	Nil	Nil		
(b)	From Pollution Control Facility	Dust collected in the ESPs, Bag Houses and Bag Filters are recycled to the system			
(c)	1. Quantity rejected or re- utilized within the unit	100% reutilized within the unit.	100% reutilized within the unit.		
and the second	2. Sold	Nil	Nil		
	3. Disposed	Nil	Nil		

$\underline{PART - F}$

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:

Battery Wastes:

As specified under Batteries (Management and Handling) Amendment Rules, 2010, we have purchased following new batteries of different categories is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines:

	Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency	During 1 st Apr 2019	0 to 31 st Mar 2020	
	Common for Cement Plant (Unit 1 & 2), D.G. Plant and Mines:	Sets, Power Plants, S	Synthetic Gypsum	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	
1.	(i) Automotive	201		
	a) Four wheeler	84	0.915	
The set	b) Two wheeler	10	0.296	
	(ii) Industrial	Contraction and the second	and the first second	
	a) UPS	120	1.0	
	b) Motive Power	Nil	Nil	
	c) Stand –by	Nil	Nil	
	(iii) Others	Nil	Nil	
	Total	214 Nos	2.211 MT	
	Number of used batteries of categories mentioned in Sl. No 3 and Tonnage of scrap sent manufacturer/dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent	During 1 st Apr. 2019 to 31 st Mar. 2020		
2.	Common for Cement Plant (Unit 1 & 2), D.G. Plant and Mines:	Sets, Power Plants, S	Synthetic Gypsum	
	Category:	(i) No. of Batteries	(ii) Approximate Weight (In Metric Tonnes)	
	(i) Automotive			

a) Four wheeler	105	5.82
b) Two wheeler	30	0.345
(ii) Industrial	Nil	Nil
a) UPS	212	2.575
b) Motive Power	Nil	Nil
c) Stand –by	Nil	Nil
(iii) Others	Nil	Nil
Total	347Nos.	8.74 MT

Used battery scrap was sent to CPCB authorized recycler

Hazardous Wastes

No Hazardous waste is generated from the process except used oil which is sold to CPCB authorized recyclers/co-processed in cement kiln.

Bio-Medical Wastes:

Bio-medical waste generated is common for Cement Plant (Unit 1 & 2), D.G. Sets, Power Plants, Synthetic Gypsum Plant and Mines during previous and current financial year under the Bio-Medical Waste (Management & Handling) Rules 2016 & amended on 2019, are as follows:

	Bio-Me	edical Wa	ste Quanti	ty (Kg) as pe	er Color	Coding	And Links
During Previous Financial Year (April 2018 to March 2019)			During (Apr	Current il 2019 to	t Financia 5 March 2	ul Year 2020)	
Yellow	Red	Blue	White	Yellow	Red	Blue	White
275	231	259	0.0	282	219	247	0.0

Above mentioned waste has been sent to Sales Promoter, CBWTF Bio Medical Treatment Facility, Jaipur Bye Pass Road, Ajmer (Raj.) for disposal.

E- Wastes:

as additioned to the state of the first	Total (Quantity
	During Previous	During Current
	Financial Year	Financial Year
Induction for the main sector and a sector	(2018-2019)	(2019-2020)
From Process	Nil	Nil
From Pollution Control Facility	Nil	Nil
Others	0.0	0.0

$\underline{PART} - \underline{G}$

IMPACTOFTHEPOLLUTIONCONTROLMEASURESONCONSERVATIONOFNATURALRESOURCESANDCONSEQUENTLYON THE COST OF PRODUCTION

The stack emission from the plant is controlled by three stage scrubber system i.e. Injector & Ventury Scrubber. Wet Cyclone separator and scrubbing towers for control of air pollution. Water used in three stage scrubber system is re utilized in process, thus it can be said that the utilization of raw material is being done at their cost. Since the system is operated on total recycle, there is no effect on the cost of production.

<u> PART – H</u>

ADDITIONALMEASURES/INVESTMENTSPROPOSALFORENVIRONMENTPROTECTIONINCLUDINGABATEMENTOFPOLLUTION

Green belt development and tree plantation is our ongoing process within our plant area and also outside the plant boundary. Every year we are doing new tree plantation to increase the density and bio-diversity of the area. In the FY19-20, 924 new trees have been planted. Up- to March 2020 total green area is around 82.83 hectare with around 228280 nos. of trees which is ~35 % of the total land of plant and colony area (231.94 Ha.).

<u> PART – I</u>

ANY OTHER PARTICULATES FOR IMPROVING THE QUALITY OF ENVIRONMENT.

- 1. We have full-fledged Environment Department with three separate cells, for monitoring, maintenance of pollution control equipment and Green Belt development.
- 2. Monitoring of stack emission and ambient air and water quality is being done regularly.
- 3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
- 4. Civil dept. taking care of Housekeeping and water supply department is taking care of operation of STP.

- 5. To further reduce fugitive emissions, we have a big size truck mounted and 04 nos of small 3D TPS sweeping machines for regular sweeping and cleaning of paved area.
- 6. All the material transfer belts are covered and transfer points are equipped with pollution control equipment.
- 7. Truck parking area and vehicle movement areas are paved and concreted to avoid any fugitive emissions.
- 8. Horticulture Department in coordination with environment department is taking care of tree plantation and green belt development. Every year during monsoon season, we are doing new tree plantation.
- 9. Waste water generated is reused in synthetic gypsum plant.
- 10. We are committed and maintaining Zero Liquid Discharge (ZLD) from our premises.
- 11. Domestic waste water generated from Colony, guesthouse, office toilets and canteen is being treated at Sewage Treatment Plant (STP) and treated water is being utilized in plantation & gardening.
- 12. We create environment awareness for all our stakeholders through meetings, training programs, world environment day celebrations etc.

We are enclosing herewith following documents:-

Annexure-1 : Stack Emission monitoring report.

Annexure-2 : Ambient Air Quality & Ambient Noise Level monitoring report.

<u>Stack Emission monitoring Report (PM All values in mg/Nm3)</u> <u>Year: 2019-20</u>

S. No.	Month	PM Level
1	Apr-19	BDL
2	May-19	BDL
3	Jun-19	BDL
4	Jul-19	BDL
5	Aug-19	BDL
6	Sep-19	BDL
7	Oct-19	BDL
8	Nov-19	BDL
9	Dec-19	BDL
10	Jan-20	BDL
11	Feb-20	BDL
12	Mar-20	BDL

*BDL = Below Detection limit

Annexure	: 2																								
										Shr	ee Ce	ment	Ltd, I	Beawa	17										
			Am	pient	Air Q	uality	(ug/n	n ³)& N	loise	Level	Mon	itorin	g Rep	ort Fo	r The	Period	Of A	pril 2	019 To) Mar	2020				
									Com	mon	for Ce	ment	plant d	& Pow	er plan										
											Yea	ır:-20	19-202	0	1		Ċ								
	Pla	int be	ound	ary	towa	rds				-	-		Pla	nt bo	unda	ry tow	vards	Pow	/er						
Location		villa	lge S	arak	ana			Kesic	ienti		iony				÷	lant					N	lain	Gate		
Ļ	A	LAQ in	µg/m³		Noise in dl	Level B(A)		AAQ in	µg/m ³		No Leva dB	ise el in (A)		AAQ	in µg/m	-3	No	ise Lev dB(A) vel in	Ą	AQ in	µg/m ³		Lev.	ise el in
Parameter →	РМ 10	PM- 2.5	SO2	NO ₂	Day time	Night time	РМ 10	PM- 2.5	SO2	NO2	Day time	Night time	PM 10	PM 2.5	SO2	NO2	ti p	ay ne	Night time	PM 2.5	РМ 10	SO2	NO2	Day time	Night time
Apr	55.0	36.0	10.0	7.0	59.0	50.0	56.0	33.0	9.0	10.0	64.0	49.0	50.0	40.0	9.0	13.0	6	ω	49.0	52.0	34.0	10.0	4.0	67.0	53.0
May	50.0	40.0	9.0	8.0	60.0	51.0	59.0	41.0	7.0	12.0	64.0	49.0	55.0	42.0	8.0	9.0	<i>л</i>	9	50.0	54.0	33.0	8.0	11.0	67.0	53.0
Jun	59.0	45.0	8.0	9.0	62.0	46.0	51.0	45.0	11.0	8.0	59.0	43.0	64.0	52.0	10.0	8.0	6	0	48.0	54.0	49.0	6.0	9.0	64.0	50.0
Jul	60.0	40.0	9.0	8.0	60.0	45.0	59.0	41.0	7.0	12.0	58.0	42.0	55.0	42.0	8.0	9.0	9	2	45.0	54.0	33.0	8.0	11.0	62.0	49.0
Aug	55.0	20.0	0.0	e 0.0	66.0	43.0	54.0	38.0	7.0	8.0	54.0	40.0	56.0	44.0	7.0	8.0	л Г	7	42.0	60.0	37.0	10.0	8.0	62.0	50.0
Sep	55.0	46.0	8.0	9.0	70.0	44.0 48.0	54.0	30.0	7.0	7.0	59.0 60.0	41.0 39 N	53.0	26.0	8.0	8.0	, u	0	43.0	56.0	29.0	6.0	9.0	58.0	47.0
Nov	57.0	26.0	7.0	7.0	67.0	42.0	59.0	27.0	7.0	7.0	59.0	35.0	51.0	26.0	8.0	8.0	6	м	36.0	58.0	25.0	6.0	8.0	69.0	48.0
Dec	55.0	23.0	8.0	8.0	65.0	41.0	58.0	25.0	8.0	7.0	58.0	42.0	50.0	25.0	9.0	9.0	6	8	42.0	56.0	24.0	7.0	9.0	70.0	55.0
Jan	51.0	20.0	9.0	9.0	72.0	42.0	54.0	24.0	9.0	8.0	65.0	45.0	48.0	22.0	10.0	10.0	6	2	39.0	54.0	23.0	8.0	10.0	65.0	45.0
Feb	51.0	25.0	9.0	9.0	68.0	55.0	53.0	26.0	10.0	10.0	72.0	60.0	52.0	27.0	9.0	9.0	7	-	44.0	53.0	25.0	8.0	11.0	66.0	52.0
Mar	50.0	23.0	9.0	10.0	66.0	49.0	44.0	27.0	8.0	9.0	62.0	49.0	49.0	30.0	10.0	11.0	6	л -	55.0	48.0	26.0	13.0	12.0	69.0	53.0
Average	54.4	33.2	8.5	8.3	65.0	46.3	54.5	32.9	8.1	8.8	61.2	44.5	53.3	35.0	8.6	9.2	62	7	44.4	54.9	31.3	8.3	9.2	65.3	50 4

