



SAGAR CEMENTS (M) PRIVATE LIMITED

(A Subsidiary of SAGAR CEMENTS LIMITED)

SCML/Karondiya/Cement/2023-24/11

Date- 20th September 2023

To,

**The Member Secretary
M.P. Pollution Control Board
E-5, Area-Colony, Paryavaran Parisar
Bhopal-16 Madhya Pradesh-462016**

Subject- Submission of Environmental Statement Report of M/S. Sagar Cements (M) Private Limited (Old Name- Satguru cement Pvt. Ltd.) for the year 2022-2023.

Respected Sir,

We are submitting herewith the Environmental Statement Report of M/S. Sagar Cements (M) Private Limited (Old Name- Satguru cement Pvt. Ltd.) for the year 2022-2023.

We hope your good self will find the same in order.

Yours faithfully



For- **Sagar Cements (M) Private Limited**

ENVIRONMENTAL STATEMENT FORM-V
(See rule 14)

Environmental Statement for the financial year ending with 31st March

PART-A

- i. *Name and address of the owner/ occupier of the industry operation or process.* **M/S Sagar Cements (M) Private Limited**
(Old Name- Satguru cement Pvt. Ltd.
Survey No. 4, 26/1, 36, 37/1,
Village- Karondiya Post Jeerabad,
Tahsil- Gandhwani,
Dist: Dhar-454446 (M.P.)
- ii. *Industry category Primary-(STC Code) Secondary- (STC Code)*
Red Large (cement manufacturing)
- iii. *Production Capacity – 0.825 MTPA(Clinker) & 0.95 MTPA(Cement)*
- iv. *Year of establishment :- 2020*
- v. *Date of the last environmental statement submitted. :- 20 sept. 2022*

PART – B

Water and Raw Material Consumption:

- i. *Water consumption in m³/d*
- Proces & Cooling : 110 m³/day*
- Domestic : 200 m³/day*

Name of Products	Process water consumption per unit of products	
	During the previous financial year 2021-22	During the current financial year 2022-23
1. Cement	Nil	Nil
2. Clinker	0.000877 m ³ /MT	0.00923 m ³ /MT

ii. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output (Ton/Ton of product)	
		During the previous financial year 2021-22 (MT)	During the current financial year 2022-23 (MT)
Limestone	Clinker	1.553	1.426
Red Ocher		0.0188	.005
Laterite AI Grade		0.0097	0.0129
Basalt/Murrum		0.0942	0.0819
Pet Coke		0.1127	0.08973
Coal		0.0273	.0295
Flyash	Cement	0.222	.286
Gypsum		0.0350	.0373

Total Cement Production (MT)

Name of product	During current financial year (2021-22)	During current financial year (2022-23)
Cement	116091.00 MT	536350.00 MT
Clinker	119639.83 MT	478914.00 MT

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 output
(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
(a) Water	NA	NA	Zero effluent discharge ZLD condition maintained.
(b) Air	Annexure -1		Particulate matters & other parameters value are well within the prescribed limit stipulated by concerned regulatory authorities.

Annexure-1

Sagar Cement (M) Private Limited

Ambient Air Quality Monitoring Report during the year 2022 to 23

Location: →			Near Main Security Gate	Near Lime stone crusher	Near Lime stone Stacker	Near WTP	PCB Norms
S No.	Parameter	Unit	Results	Results	Results	Results	
1	PM10	µg/m ³	80.5	74.4	80.1	82.8	Max. 100
2	PM2.5	µg/m ³	36.7	26.2	29.2	32.5	Max. 60
3	SO ₂	µg/m ³	19.7	12.4	13.5	17.2	Max. 80
4	NO ₂	µg/m ³	26.6	15.4	20.1	25.4	Max. 80
5	CO	µg/m ³	1100	770	890	910	Max. 2000

Sagar Cement (M) Private Limited

Stack Emission Monitoring Report during the year 2022 to 23

Pollutants		Unit	Concentration of pollutants mg/Nm ³	PCB Norms
Raw mill/Kiln Bag House Stack	PM	mg/Nm ³	14.1	30
	SO ₂	mg/Nm ³	32.7	100
	NO _x	mg/Nm ³	109	600
Coal Mill Stack	PM	mg/Nm ³	18.4	30
Cooler ESP Stack	PM	mg/Nm ³	12.4	30
Cement Mill	PM	mg/Nm ³	17.5	30

PART-D

HAZARDOUS WASTES

(as specified under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year 2021-22	During the current financial year 2022-23
1. From Process	2000 Litre Used Spent Oil/ 1000 KG used grease.	4600 Litre Used Spent oil /2600 Kg Used Grease
2. From Pollution Control Facilities	Nil	Nil

PART – E

SOLID WASTES:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year 2021-22	During the current financial year 2022-23
a. From process	Nil	Nil

b. From Pollution Control Facility	Nil	Nil
c. Quantity recycled or re-utilised within the unit.	Nil	Nil

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

** All the used oil, waste oil, burnt grease generated from the different sections of plant is being collected in empty drums and barrels and then sent to store department for proper handling and storage. The store department stores all collected hazardous waste at specified location as per Hazardous Waste Management, Handling & Transboundary Movement Rule, 2016, from where the stored hazardous waste is being sold out to authorized recyclers.*

PART-G

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

1. We have provided covered storage sheds for raw materials stocks piles like Limestone, Coal & Additive.
2. All conveyor belts are covered with GI sheet.
3. Clinker, Cement & Fly ash are being stored in silos.
4. Treated waste water from WTP & WHRS is being utilized for plantation/greenbelt development & after neutralization of water for dust suppression within the plant premises.
5. All the unpaved approach roads of plant have made concreted inside the plant.
6. Development of plantation and greenery along the road and unused areas is going on in phase manner.
7. Regular cleaning of approach CC road & flooring by road sweeping machines.
8. The plant is equipped with high efficiency air pollution control devices such reverse air bag house for main kiln, ESP for cooler and bag filters are installed at various material transfer point etc designed to control the emission (SPM) level well below 30 mg/Nm³ from all the stacks installed at our plant.



Cleaning By Road Sweeping m/c



Covered Storage shed for Lime Stone & Coal



CSP



Covered belt conveyor



Bag Filter



ESP Cooler

PART – H

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

- 1. The Plant is equipped with the efficiency air pollution control devices such reverse air bag house for main kiln, ESP for cooler and bagfilters are installed at various material transfer point etc designed to control the emission (SPM) level well below 30mg/Nm³ from all the stacks installed at our plant.*
- 2. Good green belt has been developed and being under process in & around plant and colony . Status od green belt need to be given and amount incurred in green belt development need to be given.*
- 3. Water tank is used for spraying in the plant area as well as the nearby regularly for ambient dust suppression.*
- 4. Using conventional florescent lamps (CFL) at residential colony, administrative built and CCR building for energy conservation.*

Annexure-2

SAGAR CEMENT (M) PRIVATE LIMITED

Pollution Control Equipment (BAG FILTERS) DETAILS & STATUS

SR.	BF NO AS PER CUST APPRL	BAGFILTER MODEL	GA DRAWING NO.	FINAL REV. NO.	CUSTOMER EQUIPMENT/ TAG NO.	FLOW(M3/Hr)	DUST HANDELED	STATUS /REMRKAS
1	BF-1	TP-322-360	EFAA610581	REV-2	211 BF1/RF1	40000	Limestone	COMPLETED
2	BF-2	TK-70-360	EFAA610582	REV-3	L41 BF1/ RF2-Coal Grinding	9000	Raw Coal / Pet Coke	COMPLETED
3	BF-3	TK-60-360	EFAA610583	REV-2	211 BF2/RF2-Lime Stone Crushing	7500	Limestone	COMPLETED
4	BF-4	TK-60-360	EFAA610584	REV-2	311 BF1/RF1-Lime Storage and Handling	7500	Limestone	COMPLETED
5	BF-5	TK-60-360	EFAA610585	REV-2	311 BF2/RF2-Lime Storage and Handling	7500	Limestone	COMPLETED
6	BF-6	TK-60-360	EFAA610586	REV-2	311 BF3/RF3-Lime Storage and Handling	7500	Limestone	COMPLETED
7	BF-7	TK-60-360	EFAA610587	REV-2	331 BF3/RF3-Raw Grinding	7500	Limestone	COMPLETED
8	BF-8	TK-60-360	EFAA610588	REV-4	331 BF4/RF4-Raw Grinding Hopper	7500	Limestone & Correctives	COMPLETED
9	BF-9	TK-48-360	EFAA610589	REV-2	331 BF6/RF6-Raw Grinding	6000	Limestone & Corrective	COMPLETED
10	BF-10	TK-48-360	EFAA610590	REV-2	221 BF1/RF1- Corrective storage and handling	6000	Red clay/Laterite/Bau xide	COMPLETED
11	BF-11	TK-48-360	EFAA610591	REV-3	331 BF5/RF5-Raw Grinding	6000	Limestone & Correctives	COMPLETED
12	BF-12	TK-48-360	EFAA610592	REV-2	531 BF6-Clinker, Gypsum, Additive	6000	Clinker, Gypsum, Additive & cement	COMPLETED
13	BF-13	TK-48-360	EFAA610593	REV-3	L91 BF1/RF1-Coal Dosing and Firing	6000	Fine Coal/ Coal Bin	COMPLETED
14	BF-14	TK-48-360	EFAA610594	REV-3	491 BF2/RF2-Clinker Storage and Transport	6000	Clinker/Clinker silo extraction	COMPLETED
15	BF-15	TK-48-360FN	EFAA610595	REV-2	591 BF4 - Cement Silo (Flush Type)	6000	Cement	COMPLETED
16	BF-16	TK-48-360FN	EFAA610596	REV-2	591 BF5 - Cement Silo (Flush Type)	6000	Cement	COMPLETED
17	BF-17	TK-48-360FN	EFAA610597	REV-2	591 BF6 - Cement Silo (Flush Type)	6000	Cement	COMPLETED
18	BF-18	TK-48-360FN	EFAA610598	REV-3	591 BF3 - Cement Silo (Flush Type)	6000	Cement	COMPLETED
19	BF-19	TK-48-360	EFAA610599	REV-3	381 BF2/RF4-Raw Grinding	6000	Raw Meal	COMPLETED
20	BF-20	TK-40-360	EFAA610600	REV-2	411 BF2/RF1- Blending Silo (Pyro Section)	5000	Raw Meal	COMPLETED
21	BF-21	TK-40-360	EFAA610601	REV-2	431 BF2/RF2 - (Pyro Section)	5000	Raw Meal	COMPLETED
22	BF-22	TK-40-360	EFAA610602	REV-2	591 BF1/RF1-Clinker Grinding	5000	Cement	COMPLETED

23	BF-23	TK-40-360	EFAA610603	REV-3	K21 BF1/RF1-Flyash storage and conveying	5000	Flyash	COMPLETED
24	BF-25	TK-40-360FN	EFAA610605	REV-2	601 BF1-Cement Silo	5000	Cement	COMPLETED
25	BF-26	TK-40-360FN	EFAA610606	REV-3	601 BF2-Cement Silo	5000	Cement	COMPLETED
26	BF-27	TK-40-360FN	EFAA610607	REV-2	601 BF3-Cement Silo	5000	Cement	COMPLETED
27	BF-28	TK-40-360FN	EFAA610608	REV-3	601 BF4-Cement Silo	5000	Cement	COMPLETED
28	BF-29	TP-252-360	EFAA610609	REV-2	641 BF1 to 2/RF1 to 2-Packing and Loading	33000	Cement	COMPLETED
29	BF-30	TP-252-360	EFAA610610	REV-2	641 BF2 / RF2 Packing and Loading	33000	Cement	COMPLETED
30	BF-31	TK-80-360	EFAA610611	REV-1	331 BF1/RF1-Raw Grinding	10000	Limestone	COMPLETED
31	BF-32	TK-80-360	EFAA610612	REV-1	331 BF2/RF2-Raw Grinding Hopper	10000	Corrective	COMPLETED
32	BF-33	TK-80-360	EFAA610613	REV-1	391 BF1-Blending Silo (Pyro Section)	10000	Raw Meal	COMPLETED
33	BF-34	TK-80-360	EFAA610614	REV-1	531 BF1/RF1-Cement Mill Hoppers	10000	Clinker	COMPLETED
34	BF-35	TK-80-360	EFAA610615	REV-2	L41 BF2/RF2-Coal Grinding	10000	Raw Coal	COMPLETED
35	BF-36	TK-80-360	EFAA610616	REV-2	491 BF3/RF3-Clinker Storage and transport	10000	Clinker/Clinker silo extraction	COMPLETED
36	BF-38	TK-120-360	EFAA610618	REV-2	531 BF4/RF4-Cement Mill Hoppers	15000	Clinker, Gypsum, Limestone	COMPLETED
37	BF-39	TK-60-360	EFAA610619	REV-2	421BF1 -Pyro	8000	Raw Meal / Calcine dust	COMPLETED
38	BF-40	TK-60-360	EFAA610620	REV-1	331 BF7/RF7-Raw Grinding	8000	Limestone & Correctives	COMPLETED
39	BF-41	TK-60-360	EFAA610621	REV-2	211BF3-Blending Silo (Pyro Section)	8000	LIME STONE DUST	COMPLETED
40	BF-42	TK-60-360	EFAA610622	REV-2	531 BF5/RF5-Cement Mill Hoppers	8000	Clinker, Gypsum, Additive & cement	COMPLETED
41	BF-43	TK-60-360	EFAA610623	REV-1	571 BF1/RF1-Clinker Grinding	8000	Cement	COMPLETED
42	BF-44	TP-266-360	EFAA610624	REV-1	491 BF1/RF1-Clinker Storage and transport	35000	Clinker/Clinker silo Top	COMPLETED
43	BF-45	TK-24-360	EFAA610625	REV-2	471 BF1/RF1 - Bag Filter at Cooler discharge	3000	Clinker/Cooler Discharge Dedusting	COMPLETED
44	BF-46	TK-24-360 FN	EFAA610626	REV-2	411BF1-Pyro (Flush Type)	3000	Raw Meal / Calcine dust	COMPLETED
45	BF-47	TK-24-360 FN	EFAA610627	REV-1	411 BF1 -Blending Silo Pyro Section (Flush Type)	3000	Raw Meal	COMPLETED

46	BF-48	TK-24-360	EFAA610628	REV-3	471 BF1/RF1 - Bag Filter at Cooler discharge	3000	Clinker/Cooler Discharge Dedusting	COMPLETED
47	BF-49	TK-24-360	EFAA610629	REV-1	431 BF1/RF1- Blending Silo (Pyro Section)	3000	Raw Meal	COMPLETED
48	BF-50	TK-24-360	EFAA610630	REV-4	611.BF02 / 710.BF02 Packing plant	3000	Cement	COMPLETED
49	BF-51	TK-24-360	EFAA610631	REV-1	591 BF2-Cement Silo	3000	Cement	COMPLETED
50	BF-52	TK-24-360	EFAA610632	REV-2	381 BF1/RF3 -Raw Grinding	3000	Raw Meal	COMPLETED
51	BF-53	TK-90-360	EFAA610633	REV-4	K20 BF1/RF1-Flyash Storage and Conveying	12000	Flyash	COMPLETED
52	BF-54	TK-90-360	EFAA610634	REV-2	471 BF2/RF8-Pyro	12000	Unburnt Clinker Silo Top	COMPLETED
53	BF-55	TK-90-360	EFAA610635	REV-2	531 BF3/RF3-Cement Mill Hoppers	12000	Clinker, Gypsum, Limestone	COMPLETED
54	BF-56	TP-238-360	EFAA610636	REV-3	351 BF1/RF1-Raw Grinding	25000	RP Grits	COMPLETED
55	BF-57	TP-238-360	EFAA610637	REV-2	561 BF1/RF1/GA1-Clinker Grinding	25000	Cement	COMPLETED
56	BF-58	TP-238-360	EFAA610638	REV-1	541 BF1/RF1-Clinker Grinding	25000	RP Grits + SKS reject	COMPLETED
57	BF-59	TP-154-360	EFAA610639	REV-2	541 BF2-RP Grits	20000	RP Grits	COMPLETED
58	BF-60	TP-154-360	EFAA610640	REV-2	351 BF2/RF2-Raw Grinding	20000	RP Grits	COMPLETED
59	BF-61	TK-40-360	EFAA610641	REV-2	Kiln Feed Bin Top 411BF3	5000	Raw Meal	COMPLETED
60	BF-62	TK-80-360	EFAA610854	REV-3	531 BF2/RF2-Cement Mill Hoppers	10000	Gypsum / Limestone	COMPLETED
61	BF-63	TK-24-360	EFAA610955	REV-0	611.BF01 / 720.BF02 Packing plant	3000	Cement	COMPLETED

(Online Pollution Control Monitoring System)



Opacity Meter(Cooler ESP Stack)



Opacity Meter(RM+Kiln Bag house Stack)



Opacity Meter(Coal Mill Stack)



Opacity Meter(Cement Mill Stack)



(CAAQMS)

(The Photographs of Plantation)





PART –I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

- *Maintaining good housekeeping at site & residential colony.*
- *Conducting world Environment Day Celebration by massive plantation programme.*
- *Providing lubrication for equipment to avoid excess noise.*
- *Development of greenbelt in & around the plant.*
- *Water sprinkling on the unpaved surface for dust suppression.*