

UCWL/ENV&SUST /2018-19/ 636

25th September, 2018

The Member Secretary,
Rajasthan State Pollution Control Board,
4, Paryavaran Marg,
Institutional Area, Jhalana Doongari,
Jaipur, Rajasthan- 312004

Sub: Submission of Environmental statement for the financial year 2017-18 for our Lime Stone Mine-1 located at Village-Daroli, Block Bhinder, Tehsil-Vallabhnagar, Dist: Udaipur, Rajasthan-313022

Ref: Consent to Operate Letter No. F(Mines)/Udaipur(Vallabhnagar)/82(1)/2016-2017/3975-3980 dated 23/06/2016.

Dear Sir,

With reference to the aforesaid subject, please find enclosed herewith the **ENVIRONMENTAL STATEMENT** for the financial year 2017-18, ending **31st March 2018**, for our Daroli Lime stone Mine -1.

Hope you find the above in line with the requirement. This is for your kind record, please.

Thanking you,

Yours faithfully,
For **UDAIPUR CEMENT WORKS LTD.,**
For Udaipur Cement Works Ltd.



Authorised Signatory

P. K. Chouhan
(General Manager – QC)

Encl: As Above

CC:

1. **Regional Officer, RSPCB-Udaipur**
F-470, Near UCCI Bhavan, Madri Industrial Area, Udaipur (Rajasthan) - 313001
2. **Ministry of Environment, Forest and Climate Change,**
Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow – 226020
3. **CPCB – Bhopal**
4th Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal – 462 003





UCWL UDAIPUR CEMENT
WORKS LIMITED

ENVIRONMENT STATEMENT
(FORM V)

Udaipur Cement Works Limited
Daroli Limestone Mine-1

YEAR 2017-18



Udaipur Cement Works Limited

SHRIPATINAGAR, P.O. CFA: DABOK,
DISTRICT – UDAIPUR (RAJASTHAN)-313021

Udaipur Cement Works Limited, Environmental Statement for the financial year ending the **31st March, 2018.**

FORM – V
(See rule 14)

Environmental statement for the financial year ending the 31st March 2018

PART – A

1.	Name and address of the Owner/Occupier of the Industry, operation of the process.	:	DAROLI LIMESTONE MINE-1 M/s UDAIPUR CEMENT WORKS LIMITED, SHRIPATINAGAR, P.O. CFA - 313021, DISTRICT – UDAIPUR (RAJASTHAN)
2.	Industry category	:	RED, LARGE
3.	Production Capacity	:	1.6400 MTPA
4.	Year of establishment	:	1968
5.	Date of the last environmental statement submitted	:	23 rd September, 2017

MTPA: Million Tonnes Per Annum

PART – B

Water and Raw Material Consumption

(I) Water consumption in m3/day.

Process	:	Nil
Cooling	:	133.7 (Dust Suppression Haulage Road)
Domestic	:	68.82

(Includes water used for domestic purpose in both the mines)

Name of products	Process Water consumption per unit of product output (Dust Suppression Haulage Road)	
	During the previous financial year 2016-17	During the current financial year 2017-18
	(1)	(2)
Crushed Limestone	0.029 KL/Ton of Limestone	0.0355 KL/Ton of Limestone

(II) Raw Material consumption

S. No.	Name of raw material	Name of products	Consumption of raw material per unit output (Per Tonne)	
			During the previous financial year	During the current financial year
1.	Uncrushed Limestone	Crushed Limestone	1.030 MT/Tonne of Limestone	1.025 MT/Tonne of Limestone

PART – C

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

S. No	Pollutants	Quantity of Pollutants discharged (mass/day)	Quantity of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reason.
a. Water				
	Industrial	NIL	NIL	Zero Discharge
	Domestic	NIL	NIL	Zero Discharge
b. Air				
(Stack emission) Particulate matter				
(Avg. values for the year 17-18)				
	Stack Attached to	Quantity of Pollutants discharged (kg/day)	Quantity of Pollutants discharged (mg/Nm³)	Percentage of variation from prescribed standards with reason. (%)
	1. Primary Crusher Bag Filter	5.45	11.73	-63.19 (Below Prescribed Standards)
	2. Secondary Crusher Bag Filter	9.9	15.89	-56.67 (Below Prescribed Standards)

(Crusher is common for both the mines and is located in Daroli Mine 1 lease area)

PART - D

Hazardous Wastes

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

S. No.	Hazardous Waste	Total quantity	
		During the previous financial year	During the current financial year
a.	From Process	NIL	NIL
b.	From pollution control facility	NIL	NIL

PART E

Solid Waste

Sl. No.	Solid Waste	Total quantity (Tons)	
		During the previous financial year 2016-17	During the current financial year 2017-18
a.	From Process (Face Reject)	9607	28566
b.	From pollution control facility	Nil	Nil
c.	Quantity recycled or reutilized	Nil	Nil

PART – F

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

(i) Hazardous Waste (generated from the entire premises):

Description of Haz. waste	Qty. of waste generated during the year (Ltr.)	Qty. of waste disposed during the year (Ltr.)	Disposal Method	Equipment / Facility Used
Used Oil	NIL	NIL	Not Applicable	Not Applicable

PART – G

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

- ❖ The Crusher Existing in the mines site is equipped with high efficient Bag Filters ensuring the emission (PM) level below standards prescribed by the government and regulatory body.
- ❖ In addition to bag filters there are covered conveyor belts to transfer material from one location to other, equipped with bag filters.
- ❖ Effective Water sprinklers installed at crusher dump hopper and regular water sprinkling is done at truck haulage roads to prevent fugitive dust emissions occurring due to movement of vehicles.
- ❖ Advanced controlled Blasting technology is being deployed with least ground vibrations and minimal fly rock resulting into safer surroundings.
- ❖ Thus, the pollution abatement & other energy conservation practices adopted by the company save precious raw material /minerals/ product and greatly help in conserving valuable natural resources.

More details regarding some of the Sustainable Environmental Practices are provided in ANNEXURE-A.

PART – H

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

- ❖ Green belt development and tree plantation is our ongoing process. In financial year 2017-18 about 6400 tree saplings were planted in mines area. Plantation as per the provisions under the approved Mine Plan have been strictly adhered to and undertaken at designated locations.
- ❖ Up-gradation of conventional dust suppression system by atomized dust suppression system for conservation of water.
- ❖ Furthermore, about Rs. 252.68 lakhs were invested towards Environment Protection and improvement up to 31st March, 2018 including Cement Plant & Mines.

PART -I

Any other particulars for improving the quality of the environment.

UCWL has undertaken various steps towards conservation of natural resources and energy through continuous improvement and various in-house modifications. Some of the major activities carried out in FY 2017-18 are as follows.

1. Full-fledged Environment management cell for Environmental monitoring, maintenance of pollution control equipment and green belt development.
2. Regular house-keeping of crusher and mines area is being done.
3. UCWL has various environmental monitoring equipment's such as Respirable Dust (PM 10) Sampler, Gaseous sampling attachment, Fine particulate (PM 2.5) sampler, sound level meter, UV-VIS spectrophotometer, TDS-Conductivity meter, pH meter etc.
4. Awareness promotion through various environmental competitions, presentations, mails, tree plantation etc. on world environment day, Earth Day etc.
5. Mechanized Handling of material is done (i.e. Unloading, storage, loading and feeding).
6. Heavy Earth Moving Machines (HEMM) and Dumper operators are provided required PPE's like dust masks, ear plugs etc.
7. Periodic Environmental monitoring by MoEF&CC approved laboratory.
8. Awareness among the workforce by way of active participation in 28th Mines Environment & Mineral Conservation Week.
9. Installation of two stage crushing system for lime stone crushing, to achieve lower wear rate.
10. Effluent Treatment Plant installation near mines workshop for treatment of waste water generated from vehicle washing activity.

ANNEXURE- A

SUSTAINABLE ENVIRONMENT PRACTICES CARRIED OUT AT INTEGRATED CEMENT MANUFACTURING UNIT IN FY 2017-18

1. Innovative Rain Water Harvesting

Unit has implemented scientifically developed rain water harvesting in its plant colony and mines areas, adopting both artificial and natural means, thereby recharging groundwater.



Scientifically developed Artificial Rainwater Harvesting Structure for recharge of Ground water resource

ANNEXURE- A

2. Utilizing stored rainwater of mines pit in place of groundwater

Unit utilizes the rainwater stored in mines pit for industrial and domestic purposes in place of groundwater thereby saving the natural resource i.e. groundwater. This has helped us to reduce the use of fresh water for domestic and industrial process.



Harvested Rain Water Stored in the Mines Pit

ANNEXURE- A

3. Development of Greenbelt and plantation in Plant and Mines areas

Unit has undertaken greenbelt development and massive plantation in Plant and Mines areas.



View of plantation done at Mines site

ANNEXURE- A

4. Green Power Generation from Waste Heat Recovery System

Unit has a 6 MW Waste Heat Recovery System which helps us to generate Green Power. It utilizes the waste gases to generate power which otherwise would have been vented in the atmosphere. This has helped us to reduce carbon footprint of the company.



Waste heat recovery Power generating Boiler Unit

ANNEXURE- A

5. Efficient Pollution Control Equipment for Air Quality Management

The unit has installed pollution control equipment in plant and mines like efficient bag filters at all material transfer points in order to control any related fugitive emissions, thereby ensuring cleaner production.



Bag filter installed at material transfer points

ANNEXURE- A

6. Zero waste water discharge : Sewage Treatment Plant

Unit has a Sewage Treatment Plant to treat the domestic waste water generated from the plant and colony. The treated wastewater is utilized for greenbelt development and plantation thereby reducing the consumption of fresh water for gardening and horticulture.



Site of Sewage Treatment Plant (STP)

ANNEXURE- A

7. Fugitive Dust Emission Control in Plant and Mines areas

To control fugitive dust emissions at haulage roads due to movement of trucks and vehicles, regular water sprinkling is done to suppress the dust.



Water tanker sprinkling water on the truck haulage roads at mines site

UCWL/ENV&SUST /2018-19/637

25th September, 2018

The Member Secretary,
Rajasthan State Pollution Control Board,
4, Paryavaran Marg,
Institutional Area, Jhalana Doongari,
Jaipur , Rajasthan- 312004

Sub: Submission of Environmental statement for the financial year 2017-18 for our Daroli Lime Stone Mine-2 located at Village-Daroli, Block Bhinder, Tehsil-Vallabh Nagar, Dist: Udaipur, Rajasthan- 313022

Ref: Consent to Operate Letter No. F(Mines)/Udaipur(Vallabh Nagar)/80(1)/2016-2017/987-992 dated 06/05/2016.

Dear Sir,

With reference to the aforesaid subject, please find enclosed herewith the **ENVIRONMENTAL STATEMENT** for the financial year 2017-18, ending **31st March 2018**, for our Daroli Lime stone Mine -2.

Hope you find the above in line with the requirement. This is for your kind record, please.

Thanking you,

Yours faithfully,
For UDAIPUR CEMENT WORKS LTD.,

P. K. Chouhan

P. K. Chouhan Authorised Signatory
(General Manager – QC)

Encl: As Above

CC:

1. Regional Officer, RSPCB-Udaipur
F-470, Near UCCI Bhavan, Madri Industrial Area, Udaipur (Rajasthan)- 313001
2. Ministry of Environment, Forest and Climate Change,
Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow – 226020
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UCWL UDAIPUR CEMENT
WORKS LIMITED

ENVIRONMENT STATEMENT
(FORM V)

Udaipur Cement Works Limited
Daroli Limestone Mine-2

YEAR 2017-18



Udaipur Cement Works Limited
SHRIPATINAGAR, P.O. CFA: DABOK,
DISTRICT – UDAIPUR (RAJASTHAN)-313021

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FORM – V
(See rule 14)

Environmental statement for the financial year ending the 31st March 2018

PART – A

1.	Name and address of the Owner/Occupier of the Industry, operation of the process.	:	DAROLI LIMESTONE MINE-2 M/s UDAIPUR CEMENT WORKS LIMITED, SHRIPATINAGAR, P.O. CFA - 313021, DISTRICT – UDAIPUR (RAJASTHAN)
2.	Industry category	:	RED, LARGE
3.	Production Capacity	:	1.5600 MTPA
4.	Year of establishment	:	1968
5.	Date of the last environmental statement submitted	:	23 rd September, 2017

MTPA: Million Tonnes Per Annum

PART – B

Water and Raw Material Consumption

(I) Water consumption in m3/day.

Process	:	NIL
Cooling	:	23.6 (Dust Suppression Haulage Road)
Domestic	:	NIL

Name of products	Process Water consumption per unit of product output (Dust Suppression Haulage Road)	
	During the previous financial year 2016-17	During the current financial year 2017-18
	(1)	(2)
Crushed Limestone	0.284 KL/Ton of Limestone	1.254 KL/Ton of Limestone

(II) Raw Material consumption

S. No.	Name of raw material	Name of products	Consumption of raw material per unit output (Per Tonne)	
			During the previous financial year	During the current financial year
1.	Uncrushed Limestone	Crushed Limestone	1.00 MT/Tonne of Limestone	1.00 MT/Tonne of Limestone

PART – C

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

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(Crusher is common for both the mines and is located in Daroli Mine 1 lease area)

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a.	From Process (Face Reject)	Nil	Nil
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