

0/c

CIN No. : L26943RJ1979PLC001935
Phone : 0180 2520160
Toll Free : 1800 180 6003/6004
Fax : 0180 2520100
Website : www.shreecement.in



SHREE CEMENT LTD.

VILLAGE KHUKHRANA, P. O. ASSAN KALAN, POST BOX - 148
DISTT. PANIPAT - 132 105 (HARYANA)



SCL/PGU/ENV/ESR/37/2019-20/3501

25
Date: 19/09/2019
Th. DTDC Courier

To,
The Member Secretary
Haryana State Pollution Control Board
C-11, Sector -6 Panchkula-134109
(Haryana)

Subject : Environment Statement Report of M/s Shree Cement Limited, Village: Khukhrana, P.O. Assan Kalan, Distt-Panipat (Haryana) for the period from April, 2018 to March, 2019 under Environment Protection Act, 1986.

Ref: CTO No. under Air and Water act HSPCB/Consent/:313098018PITCTO4996047 on dated 10.08.2018 and Hazardous Waste Authorization No. HSPCB/Consent: No. : HWM/PIT/2018/5439451 dated 10.08.2018.

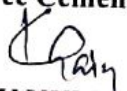
Dear Sir,

We are submitting herewith the Annual Environmental Statement Report for the period from April, 2018 to March, 2019 for our Clinker Grinding unit, situated at Village: Khukhrana, P.O. Assan Kalan, Distt-Panipat (Haryana).

This is for your kind information please.

Thanking you,

Yours faithfully,
For Shree Cement Ltd.


RAJEEV KUMAR JAIN
(Unit Incharge)

- Copy to:
1. The Regional Officer, Haryana State Pollution Control Board, SCO-55, Sector-25 HUDA Panipat (Haryana)-132103.
 2. The Conservator of Forest (C), Ministry of Environment & Forest and Climate Change, Regional Office(NZ), Bays No.24-25, Sector 31 A, Dakshin Marg, Chandigarh-160030.

0/c Environment Deptt.

JAIPUR OFFICE : SB-187, Opp. Rajasthan University, JLN Marg, Jaipur-302 015
Phone : 0141-4241200, 4241204, Fax : 0141-4241219
NEW DELHI OFFICE : 122-123, Hans Bhawan, 1, Bhadurshah Zafar Marg, New Delhi 110 002
Phone : 011-23370776, Fax : 011-23370499
CORP. OFFICE : 21, Strand Road, Kolkata 700 001 Phone : 033-22309601-4, Fax : 033-22434226

ENVIRONMENTAL STATEMENT

FORM-V

(See Rule-14)

(April, 2018 to March, 2019)

PART - A

| | | |
|----|---|---|
| 1. | Name and address of the Owner / Occupier of the Industry operation or process | M/s SHREE CEMENT LTD. Clinker Grinding Unit Village: Khukhrana, P.O. Assan kalan, Distt-Panipat (Haryana). Pin Code -132105 |
| 2. | Industry Category Primary (S.T.C. Code) Secondary (S.I.C. Code) | Red Category |
| 3. | <u>Production Capacity</u> Cement : | 1.5 Million Tons Per Annum |
| 4. | Year of Establishment | 2008 |
| 5. | Date of the last Environmental Statement submitted. | 26 th September, 2018 |

PART - B

WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION:

Process : N.A. (As plant is based on dry process technology)

Cooling and Dust Suppression : 7536 KL

Domestic : 81273 KL

| Name of Product | Cooling & Dust Suppression Water Consumption per unit of Product Output (Cement) | |
|-----------------|--|--|
| | During Previous Financial Year 2017-18 | During Current Financial Year 2018-19 |
| Cement | 0.0077 KL / Metric Ton of Cement | 0.0075 KL / Metric Ton of Cement |

(II) RAW MATERIAL CONSUMPTION: (CEMENT PLANT)

| Name of Raw Material | Name of Product | Consumption of Raw Material per unit of Output (Cement) | |
|----------------------|-----------------|---|---------------------------------------|
| | | During Previous Financial year 2017-18 | During Current Financial year 2018-19 |
| Clinker | Cement | 0.609 | 0.5726 |
| Gypsum | | 0.089 | 0.1005 |
| Fly Ash | | 0.300 | 0.3268 |

RAW MATERIAL CONSUMPTION: (D.G. SET)

| Name of Raw Material | Name of Product | Consumption of Raw Material per unit of Output (Ltrs / Kwh) | |
|----------------------|-----------------|---|---------------------------------------|
| | | During Previous Financial year 2017-18 | During Current Financial year 2018-19 |
| Fuel/Diesel | Power | 0.3052 | 0.3095 |

D.G. Sets are not in operation. It is operated only during power failure from grid.

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

| During Previous Financial Year (2017-18) | During Current Financial Year(2018-19) |
|--|--|
| 31.4 | 28.56 |

(IV) TOTAL CEMENT PRODUCTION (MT):

| During Previous financial year (2017-18) in Metric Tonnes | During current financial year (2018-19) Metric Tonnes |
|---|---|
| 1067315.00 | 996966.00 |

PART-C

POLLUTION DISCHARGED TO ENVIRONMENT / UNIT OF OUTPUT

| Pollutants | Quantity of Pollutants Discharged (Mass/Day) | Concentration of Pollutants in Discharges (Mass/Volume) | Percentage of variation from prescribed standard with reasons |
|------------|--|--|---|
| (a) | Water | Plant is being operated on dry process technology; no liquid effluent is generated from the Clinker grinding unit. Waste water generated from office toilets and mess is being treated through Sewage Treatment Plant. This STP treated water is being utilized in plantation & gardening. Annexure-IV. | |
| (b) | Air | Please refer Annexures- I ,II & III | |

PART - D

HAZARDOUS WASTE

(As specified under Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016)

| Hazardous Waste | Total Quantity (Ltrs.) | |
|---|---|--|
| | During Current Financial Year (April,2017 to March,2018) | During Current Financial Year (April,2018 to March,2019) |
| (a) From Process Cement manufacturing (Grinding) is based on “Dry Process” No Hazardous waste is generated from the process except used oil which is drained from Machinery / Equipments. | Total Quantity Generated in 2017-18 : 1050 Ltrs Old Stock : 0 Ltrs Sale out : 1050 Ltrs Balance : 0 Ltrs | Total Quantity Generated in 2018-19 : 1680 Ltrs Old Stock : 0 Ltrs Sale out : 1680 Ltrs Balance : 0 Ltrs The used oil generated is sold out to authorized recyclers. |
| (b) From Pollution Control Facilities | N.A. | N.A. |

PART - E

SOLID WASTE

| | | Total Quantity | |
|-----|---|---|-------------------------------|
| | | During Previous Financial Year | During Current Financial Year |
| (a) | From Process | Nil | Nil |
| (b) | From Pollution Control Facility | Dust collected in the Bag Houses and Bag Filters is recycled/reused in process. | |
| (c) | 1) Quantity rejected or re-utilized within the unit | 100% | 100% |
| | 2) Sold | Nil | Nil |
| | 3) Disposed | Nil | Nil |

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:

Cement manufacturing is based on “Dry Process”. No Hazardous waste is generated from the process except used oil which is from machineries /equipments. Used oil is sold to the CPCB/HSPCB authorized recyclers.

Battery Waste:

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

Year 2018-19

| Number of new batteries of different categories purchased from the manufacturer / importer / dealer or any other agency. | During 1 st April, 2018 to 31 st March, 2019 | |
|--|--|--|
| Category: | (i) No. of Batteries | (ii) Approximate Weight (In Metric Tonnes) |
| (i) Automotive | | |
| a) Four wheeler | 03 | 0.056 |
| b) Two wheeler | Nil | Nil |
| (ii) Industrial | | |
| a) UPS | 20 | 0.060 |
| b) Motive Power | 24 | 0.340 |
| c) Stand -by | Nil | Nil |
| (iii) Others | Nil | Nil |
| Total | 47 | 0.456 |

| Number of used batteries of categories mentioned in Sr. No. 03 and Tonnage of scrap sent to manufacturer/ dealer/importer/registered recycler/or any other agency to whom the used batteries scrap was sent. | During 1 st April, 2018 to 31 st March, 2019 | |
|--|--|--|
| Category: | (i) No. of Batteries | (ii) Approximate Weight (In Metric Tonnes) |
| (i) Automotive | | |
| a) Four wheeler | Nil | Nil |
| b) Two wheeler | Nil | Nil |
| (ii) Industrial | | |
| a) UPS | Nil | Nil |
| b) Motive Power | Nil | Nil |
| c) Stand -by | Nil | Nil |
| (iii) Others | Nil | Nil |
| Total | Nil | Nil |

Bio-Medical Waste:

Bio-Medical Waste generated during current financial year April, 2018 to March, 2019 under the Bio-Medical Waste (Management & Handling) Rules, 2016 are as follows.

Year 2018-19

| April,18 to March,19 | Bio-Medical Waste Quantity (Kg) as per colour coding | | | |
|----------------------------|--|-----|------------------------|------|
| | Yellow (Cat.c&d) | Red | White (Translucent) | Blue |
| | 1.766 Kg | - | - | - |

Agreement with HSPCB approved Common Biomedical Waste Treatment Facility i.e. M/s Divya Waste Management Co. Village Kandela Distt. Jind (Haryana) has been made for further disposal.

E- Wastes:

| | Total Quantity | |
|--|---|--|
| | During Previous Financial Year 2017-18 | During Current Financial Year 2018-19 |
| From Process | | |
| Computer Schedule (i) | Nil | Nil |
| Printers including cartridge | Nil | Nil |
| From Pollution Control Facility | Nil | Nil |
| Total | Nil | Nil |

Solid Wastes: - N.A.

PART – G**IMPACT OF THE POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON THE COST OF PRODUCTION**

Clinker Grinding Unit is being 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 PCM like bag- houses and bag-filters installed at various material transfer points to eliminate emission and arrest the fugitive emissions. The Particulate Matter collected in the pollution control equipment is recycled/reused 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.

PART - H

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

Green belt development and tree plantation is our ongoing process. Every year we are doing new tree plantation to increase the bio-diversity of the area. Up to 31 March, 2019, we have planted around 6372 tree and this is around 33.2 % green area of the total plant area. Common local native tree species i.e. Silver Oak, Ficus, Neem, Eucalyptys, Sheesham, Cassia, Guava, Jamun etc planted within our premises. During the FY 2019-20 we have a target of planting around 200 Nos. of tree saplings .

PART - I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT

1. We have full-fledged Environment Department with three separate cells, one for monitoring, one for maintenance of pollution control equipment and one for green belt development.
2. Regular monitoring of stack emission, ambient air quality & ambient noise being carried out.
3. Maintenance department is doing regular checking and scheduled maintenance of all the PCM's i.e. bag filters.
4. Civil, P&A and Mechanical departments taking care of Housekeeping.
5. To further reduce fugitive emissions, all the material transfer belt are covered, we have procured TPS sweeping machine for regular & frequent sweeping and cleaning of paved area.
6. Horticulture section is taking care of tree plantation and green belt development. Every year we are growing new tree plantation.
7. We have Installed Continuous Ambient Air Quality Monitoring System and Continuous Emission Monitoring System to display the data on CPCB/HSPCB web sites.
8. Domestic waste water is being treated at Sewage Treatment Plant (STP). This treated water is being utilized in plantation and gardening.
9. We create environment awareness among all our stakeholders through meetings, training programmes, days celebrations.
10. We are maintaining Zero Liquid Discharge from our premises.

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

1. **Annexure-I** : Ambient Air Quality Monitoring Report for the year 2018-19
2. **Annexure-II** : Stack Emission Level Monitoring Report for the year 2018-19
3. **Annexure-III** : Ambient Noise level Monitoring Report for the year 2018-19
4. **Annexure-IV** : STP treated effluent Monitoring Report for the year 2018-19

Annexure-I**Ambient Air Quality Monitoring Report for the year 2018-19 (in $\mu\text{g}/\text{m}^3$)**

| Location | Plant boundary Near Admin Block | | | | Plant boundary Near Packing Plant | | | | Plant boundary Near Field Hostel | | | |
|----------------|---------------------------------|-------------------|-----------------|-------------|-----------------------------------|-------------------|-----------------|-------------|----------------------------------|-------------------|-----------------|-------------|
| | PM ₁₀ | PM _{2.5} | SO ₂ | NOx | PM ₁₀ | PM _{2.5} | SO ₂ | NOx | PM ₁₀ | PM _{2.5} | SO ₂ | NOx |
| Mar,19 | 56 | 36 | 20.5 | 31.8 | 55 | 37 | 19.7 | 30.3 | 47 | 32 | 18.8 | 28.9 |
| Feb,19 | 51 | 32 | 18.3 | 29.4 | 53 | 34 | 17.6 | 26.9 | 45 | 29 | 15.8 | 27.0 |
| Jan,19 | 53 | 33 | 17.9 | 29.8 | 57 | 31 | 16.4 | 28.5 | 49 | 26 | 16.3 | 24.7 |
| Dec,18 | 64 | 35 | 15.0 | 29.5 | 59 | 34 | 15.2 | 28.9 | 51 | 30 | 14.3 | 25.4 |
| Nov,18 | 67 | 40 | 14.6 | 28.1 | 61 | 35 | 14.3 | 27.4 | 53 | 33 | 14.0 | 24.7 |
| Oct,18 | 72 | 43 | 12.3 | 26.5 | 65 | 38 | 13.0 | 27.3 | 56 | 31 | 12.6 | 25.2 |
| Sept,18 | 62 | 32 | 10.0 | 28.0 | 63 | 28 | 10.0 | 27.0 | 53 | 30 | 9.0 | 25.0 |
| Aug,18 | 58 | 30 | 9.0 | 27.0 | 60 | 30 | 9.0 | 26.0 | 47 | 25 | 8.0 | 24.0 |
| Jul,18 | 60 | 32 | 10.0 | 29.0 | 62 | 32 | 10.0 | 28.0 | 55 | 28 | 12.0 | 27.0 |
| Jun,18 | 56 | 30 | 11.0 | 28.0 | 58 | 30 | 11.0 | 27.0 | 53 | 26 | 11.0 | 25.0 |
| May,18 | 54 | 26 | 10.0 | 25.0 | 53 | 27 | 12.0 | 23.0 | 48 | 28 | 10.0 | 23.0 |
| Apr,18 | 52 | 25 | 9.0 | 27.0 | 57 | 28 | 10.0 | 26.0 | 51 | 25 | 9.0 | 24.0 |
| Average | 59 | 33 | 13.1 | 28.3 | 59 | 32 | 13.2 | 27.2 | 51 | 29 | 12.6 | 25.3 |

Annexure-II**Stack Emission Level Monitoring Report for the year 2018-19 (in mg/Nm^3)**

| Month | Particulate Matter Emission Level from Stack attached with Bag House of Cement Mill |
|----------------|---|
| Mar,19 | 17 |
| Feb,19 | 14 |
| Jan,19 | 21 |
| Dec,18 | 17 |
| Nov,18 | 20 |
| Oct,18 | 15 |
| Sept,18 | 13 |
| Aug,18 | 22 |
| Jul,18 | 19 |
| Jun,18 | 28 |
| May,18 | 16 |
| Apr,18 | 13 |
| Average | 18.0 |

Ambient Noise Level Monitoring Report for the Year 2018-19 (Leq-dB (A))

Annexure-III

| Location | Plant boundary Near Admin Block | | Plant boundary Near Packing Plant | | Plant boundary Near Field Hostel | |
|----------|---------------------------------|------------|-----------------------------------|------------|----------------------------------|------------|
| | Day time | Night time | Day time | Night time | Day time | Night time |
| Apr-18 | 62.2 | 56.4 | 53.4 | 44.6 | 55.3 | 48.7 |
| May-18 | 63.5 | 54.3 | 54.2 | 45.7 | 57.4 | 51.6 |
| Jun-18 | 59.7 | 52.3 | 55.1 | 47.2 | 56.2 | 47.1 |
| Jul-18 | 58.6 | 51.7 | 54.3 | 46.2 | 55.4 | 48.5 |
| Aug-18 | 61.7 | 53.4 | 56.2 | 48.5 | 56.3 | 49.1 |
| Sep-18 | 62.6 | 54.7 | 54.8 | 46.1 | 55.4 | 48.2 |
| Oct-18 | 65.1 | 56.4 | 56.2 | 48.3 | 57.1 | 51.6 |
| Nov-18 | 66.9 | 60.5 | 59.3 | 55.4 | 60.2 | 53.7 |
| Dec-18 | 64.0 | 60.9 | 68.4 | 65.3 | 61.2 | 58.7 |
| Jan-19 | 67.2 | 63.7 | 69.1 | 66.2 | 62.8 | 60.0 |
| Feb-19 | 65.1 | 62.5 | 67.4 | 64.9 | 61.0 | 58.7 |
| Mar-19 | 62.6 | 59.7 | 67.2 | 65.1 | 60.2 | 56.7 |
| Average | 63.3 | 57.2 | 59.6 | 53.6 | 58.2 | 52.7 |

NOTE: Day time Limit : 75 dB(A) [6:00 AM to 10:00 PM] & Night time Limit: 70 dB(A) [10:00 PM to 6:00 AM]

Annexure-IV

| Sewage Treatment Plant Monitoring Report | | | | | | | | | | |
|--|---|--------|---------------------------|--------|-------|--------|-------|--------|--------------|--------|
| Year : 2018-19 | | | | | | | | | | |
| Month | Prescribed parameters (All Parameters are in mg/l, except pH) | | | | | | | | | |
| | pH | | BOD (27° C for 3 days) | | COD | | TSS | | Oil & Grease | |
| | Inlet | Outlet | Inlet | Outlet | Inlet | Outlet | Inlet | Outlet | Inlet | Outlet |
| Mar,19 | 7.74 | 8.06 | 69.7 | 14.2 | 214.8 | 43.1 | 129 | 52 | 9.45 | 1.76 |
| Feb,19 | 7.29 | 8.22 | 57.6 | 12.8 | 186.4 | 42.5 | 97 | 38 | 10.14 | 2.91 |
| Jan,19 | 7.93 | 8.04 | 59.0 | 16.0 | 208.0 | 79.4 | 114 | 28 | 11.53 | 2.44 |
| Dec,18 | 7.65 | 8.40 | 81.0 | 19.0 | 323.0 | 91.0 | 113 | 39 | 7.35 | 8.00 |
| Nov,18 | 7.45 | 8.08 | 73.0 | 16.0 | 294.0 | 80.0 | 162 | 55 | 7.11 | 7.93 |
| Oct,18 | 7.24 | 7.67 | 69.0 | 13.0 | 287.0 | 77.0 | 153 | 52 | 7.55 | 8.06 |
| Sept,18 | 7.20 | 7.70 | 61.0 | 8.0 | 131.0 | 28.0 | 62 | 15 | 7.22 | 7.64 |
| Aug,18 | 6.90 | 7.60 | 71.0 | 11.0 | 132.0 | 37.0 | 79 | 18 | 6.29 | 7.35 |
| Jul,18 | 6.80 | 7.70 | 89.0 | 14.0 | 165.0 | 46.0 | 71 | 16 | 7.09 | 7.8 |
| Jun,18 | 7.50 | 8.10 | 87.0 | 12.0 | 132.0 | 39.0 | 67 | 18 | 6.79 | 7.53 |
| May,18 | 7.20 | 7.80 | 66.0 | 16.0 | 124.0 | 42.0 | 64 | 16 | 7.04 | 7.85 |
| Apr,18 | 7.10 | 7.60 | 82.0 | 13.0 | 117.0 | 41.0 | 78 | 14 | 6.95 | 7.66 |

**SEWAGE TREATMENT PLANT METER READINGS
YEAR:2018-19**

| MONTH | Energy Meter Reading (Kwh) | | | STP Outlet Meter Reading (KL) | | |
|---------|----------------------------|--------|--------------|-------------------------------|-------|--------------|
| | IR | FR | TOTAL | IR | FR | TOTAL |
| Mar,19 | 91500 | 94800 | 3300 | 449 | 3320 | 2871 |
| Feb,19 | 94800 | 98510 | 3710 | 3320 | 6464 | 3144 |
| Jan,19 | 98510 | 102190 | 3680 | 6464 | 9402 | 2938 |
| Dec,18 | 102190 | 105590 | 3400 | 9402 | 12875 | 3473 |
| Nov,18 | 105590 | 108760 | 3170 | 12875 | 16443 | 3568 |
| Oct,18 | 108760 | 111940 | 3180 | 16443 | 19637 | 3194 |
| Sept,18 | 111940 | 115620 | 3680 | 19637 | 22967 | 3330 |
| Aug,18 | 115620 | 118940 | 3320 | 22967 | 25984 | 3017 |
| Jul,18 | 118940 | 122230 | 3290 | 25984 | 28713 | 2729 |
| Jun,18 | 122230 | 125610 | 3380 | 28713 | 28960 | 247 |
| May,18 | 125610 | 128630 | 3020 | 0 | 2147 | 2394 |
| Apr,18 | 128630 | 132500 | 3870 | 2147 | 4308 | 2161 |
| | | | 41000 | 4308 | 6899 | 2591 |
| | | | | | | 35657 |