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SHREE CEMENT LTD.

An ISO 9001, 14001, 50001 & OHS 18001 Certified Company

Regd. Office:

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

SCL/Ras/Unit-III/ESR/2021-22/898

Date : 10/09/2021

Speed Post

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

File No. C-057

Sub:- Environmental Statement for the period from 1st April 2020 to 31st March 2021 for Cement Plant-Unit-III of M/s Shree Cement Limited situated at Village - Ras Bhimgarh, Tehsil - Jaitaran, Dist. - Pali (Raj).

Ref:- (1) CTO No. F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/1204-1206 dated 19/05/2017
(2) CTO No. F(Tech)/Pali(Jaitaran)/2(1)/2008-2009/3100-3102 dated 07/08/2018

Respected Sir,

We are submitting herewith Environmental Statement for the period from **1st April 2020 to 31st March 2021** for **Cement Plant Unit-III** of M/s Shree Cement Limited situated at Village- Ras - Bhimgarh, Tehsil- Jaitaran, Dist- Pali (Raj).

This is for your kind information please.

Thanking you,
Yours faithfully,

For Shree Cement Ltd:

(Dr. Anil Kumar Trivedi)
Sr. GM (Environment)

Encl: a/a

Copy to:-

1. Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur , A-209&218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur – 304002, Rajasthan
2. The Regional Officer (Regional Office), Rajasthan State Pollution Control Board, S / A-6, Mandia Road, Industrial Area, Near Pali Urban Co-Operative Bank, Pali- 306401 (Raj.)

JAIPUR OFFICE : SB-187, Babu Nagar, Opp. Rajasthan University, JLN Marg, Jaipur 302015

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ENVIRONMENTAL STATEMENT

FORM - V

M/s. Shree Cement Limited: Unit - III
Period from: April 2020 to: March 2021

PART – A

| | | |
|----|---|--|
| 1. | Name and address of the Owner / Occupier of the Industry operation or process | M/s Shree Cement Ltd. Unit-III Cement Plant Village : Ras/ Bhingarh, Tehsil: Jaitaran, Dist: Pali-306107 (Rajasthan) |
| 2. | Industry Category Primary (S.T.C. Code) Secondary (S.I.C. Code) | Red Category |
| 3. | Production Capacity | 1.55 Million TPA Clinker 2.2 Million TPA Cement |
| 4. | Year of Establishment | 2005 |
| 5. | Date of the last Environmental Statement submitted | 10/09/2020 |

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 | : | 44304 KL |
| Domestic | : | 57688 KL (Common for cement plant, power plant, synthetic gypsum plant & mines) |

| Name of Product | Process Water Consumption per Unit of Clinker & Cement Output | |
|-----------------|---|--|
| | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
| Clinker | 0.04234 KL/ MT of Clinker | 0.04313 KL/ MT of Clinker |
| Cement | 0.03362 KL/ MT of Cement | 0.04081 KL/ MT of Cement |

(II) RAW MATERIAL CONSUMPTION: (CEMENT/CLINKER)

| Name of Raw Material | Name of Product | Consumption of Raw Material Per Unit of Output (Cement) | |
|-----------------------|--------------------|---|---|
| | | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
| 1. Limestone | Cement/ Clinker | 1.276 | 1.447 |
| 2. Laterite /Iron Ore | | 0.019 | 0.016 |
| 3. Gypsum | | 0.066 | 0.068 |
| 4. Coal & Pet Coke | | 0.086 | 0.096 |
| 5. Fly Ash | | 0.034 | 0.014 |

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

| Product | During Current Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
|---------|---|---|
| Cement | 80.96 | 79.67 |
| Clinker | 51.38 | 49.85 |

(IV) TOTAL CLINKER & CEMENT PRODUCTION (MT):

| Product | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
|---------|--|---|
| Clinker | 1035971 | 1027300 |
| Cement | 1304879 | 1085742 |

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 |
|------------|--|---|---|
| Water | No waste water is being generated & discharged outside the plant premises. | As the plant is being operated on dry process technology, no liquid effluent is generated from the cement plant. The waste water generated from the office toilet and canteen is being treated in STP and treated water & sludge generated is being used in plantation & horticulture activities. Analysis Report of STP treated water is attached as Annexure-3 | |

| | | |
|-----|--------------------------------|--|
| Air | PM – 0.1796 T/Day | Please refer Annexure – 1 & 2 |
| | SO ₂ – 0.1061 T/Day | |
| | NO _x – 3.4887 T/Day | |
| | | |

PART – D

HAZARDOUS WASTE

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

| Hazardous Waste | Total Quantity (Ltrs.) | |
|--|---|---|
| | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
| 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) | <p>Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G. Sets and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2019 to March-2020 = 26820 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 26820 Ltrs.</p> <p>Sold-out to registered recycler = 0.0 Ltrs.</p> <p>Co-processed in cement kiln = 26820 Ltrs.</p> <p>Balance Quantity = 0 Ltrs</p> | <p>Common authorization for Hazardous Waste Management & Handling for Cement Plant, Power Plant, Synthetic Gypsum Plant, D.G. Sets and Nimbeti Limestone Mines.</p> <p>Total Quantity generated from April-2020 to March-2021 = 65250 Ltrs.</p> <p>Old Stock = 0 Ltrs.</p> <p>Total Used oil = 65250 Ltrs.</p> <p>Sold-out to registered recycler = 0.0 Ltrs.</p> <p>Co-processed in cement kiln = 65250 Ltrs.</p> <p>Balance Quantity = 0 Ltrs</p> |
| (b) From Pollution Control Facilities | N.A. | N.A. |

PART – E

SOLID WASTE

| Sr. No. | Particulars | Total Quantity | |
|---------|---------------------------------|---|---|
| | | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
| (a) | From Process | Nil | Nil |
| (b) | From Pollution Control Facility | Dust collected in the ESPs, Bag Houses and Bag Filters are recycled & reused in cement manufacturing. | |

| | | | |
|-----|---|------|------|
| (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

A. No Hazardous waste is generated from the process except used oil which is basically petroleum-based or synthetic oil, black in color & flammable in nature, generated from machineries / equipment. Used oil is being Co-processed in cement kiln as authorization obtained from RSPCB.

B. Old and scrap lead acid batteries are sold to CPCB authorized recyclers.

| Sr. No. | Particulars | Total Quantity | |
|---------|---|--|---|
| | | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
| 1 | Used oil (Co processed in Cement Kiln) | 26820 Ltrs. | 65250 Ltrs. |
| 2 | Lead acid battery waste (Sell to authorized recycler) | 4.986 MT | 11.170 MT |

B. Hazardous wastes were received and co-processed as specified under Hazardous Wastes (Management, Handling & Trans boundary Movement Rule, 2016) during the Current Financial Year : 2020-2021 (During the Period of April -2020 to March-2021)

| S. No. | Type of hazardous waste | Category | Quantity (MT) |
|--------|---|----------|---------------|
| 1 | Paint Sludge | 21.1 | 2757.327 |
| 2 | ETP/CETP Sludge | 35.3 | 18799.861 |
| 3 | Phosphate sludge | 12.5 | 633.888 |
| 4 | Oil soaked cotton, Industrial Waste, residue containing oil, Grinding sludge etc. | 5.2 | 4571.519 |
| 5 | Incineration ash | 36.2 | 12.835 |
| 6 | SOBM/Drill cutting oil | 2.1 | 16639.22 |
| 7 | Cotton rags | 33.2 | 9.6 |
| 8 | Spent Clay | 4.5 | 63.045 |
| 9 | Waste or residues | 23.1 | 1689.905 |
| 10 | Organic Residue | 4.4 | 14.22 |
| 11 | Spent Carbon | 28.3 | 1741.78 |

| | | | |
|-----------------------|---------------------------------|-------|------------------|
| 12 | Expired products/Spent catalyst | 28.2 | 196.66 |
| 13 | Distillation residue | 20.3 | 705.53 |
| 14 | Spent Solvent | 28.6 | 7259.18 |
| 15 | Empty barrel | 33.1 | 48.14 |
| 16 | Distillation residue | 36.1 | 1750.51 |
| 17 | Spent catalyst | 4.2 | 583.23 |
| 18 | Spent resin | 35.2 | 25.07 |
| 19 | Mix liquid waste | Sch-I | 1782.65 |
| 20 | Spent Solvent | 20.2 | 7285.845 |
| 21 | Process wastes or residues | 29.1 | 2238.105 |
| 22 | Process residues & wastes | 28.1 | 4050.915 |
| 23 | Process waste residue | 21.1 | 1042.339 |
| 24 | Date expiry medicine | Sch-I | 6.25 |
| 25 | Evaporation residue | 37.2 | 29.98 |
| 26 | Organic residues | 1.4 | 36.59 |
| 27 | Dust for air filtration system | 26.2 | 3.73 |
| 28 | Spent solvents | 29.4 | 86.35 |
| 29 | Disposal of barrel | 34.2 | 4.16 |
| 30 | Expiry products | 28.5 | 11.545 |
| 31 | Process waste sludge | 26.1 | 2987.065 |
| Total Quantity | | | 77067.044 |

77067.044 MT hazardous waste has been co-processed at Ras complex during FY 2020-2021.

Bio-Medical Wastes:

Bio-medical waste generated is common for cement plant, power plant and mines. During current financial year April-2020 to March-2021 under the Bio-Medical Waste (Management & Handling) Rules 2016, are as follows.

| Period | Bio-Medical Waste Quantity (Kg) as per Color Coding | | | |
|---------------------------------|---|------|--------|-------|
| | Red | Blue | Yellow | White |
| April 2019 to March 2020 | 49.0 | 46.3 | 19.8 | 24.2 |
| April 2020 to March 2021 | 58.6 | 53.5 | 20.2 | 28.3 |

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

E- Wastes:

| Particulars | Total Quantity | |
|---------------------------------|--|---|
| | During Previous Financial Year (2019-2020) | During Current Financial Year (2020-2021) |
| From Process | Nil | Nil |
| From Pollution Control Facility | Nil | Nil |

Solid Wastes: - Other Municipal solid waste generated from all units (Cement Plant, Power Plant, Synthetic Gypsum plant and Nimbeti Limestone Mines) of the entire campus is being collected, manage and disposed as per MSW Rules, 2016.

Battery Wastes:

As specified under Batteries (Management and Handling) Amendment Rules, 2010, we have sold out used/ scrap batteries of different categories is common for cement plant, power plant and mines to CPCB authorized recycler. The details are as follows:

| 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 | Previous Year Financial Year (1 st Apr 2019 to 31 st Mar 2020) | | Current Year Financial Year (1 st Apr 2020 to 31 st Mar 2021) | |
|--|--|--|---|--|
| Category: | (i) No. of Batteries | (ii) Approximate Weight (In Metric Tonnes) | (i) No. of Batteries | (ii) Approximate Weight (In Metric Tonnes) |
| (i) Automotive | | | | |
| a) Four wheeler | 168 | 4.986 | 275 | 10.914 |
| b) Two wheeler | Nil | Nil | Nil | Nil |
| (ii) Industrial | | | | |
| a) UPS | 0 | 0 | 32 | 0.256 |
| b) Motive Power | Nil | Nil | Nil | Nil |
| c) Stand –by | Nil | Nil | Nil | Nil |
| (iii) Others | Nil | Nil | Nil | Nil |
| Total | 168 Nos. | 4.986 MT | 307 Nos. | 11.170 MT |

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

M/s Shree Cement Limited is being operated on dry process technology, which is cost effective and environmentally clean technology. The advantage of dry process is also in fuel economy. The stack emissions from the plant are controlled by pollution control equipment like ESPs & Bag Houses. 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 back in process and neutralizing the cost of operation of pollution control equipment and hence no cost impact on the production cost.

Synthetic Gypsum is being used in place of natural gypsum thus directly conserves the mineral gypsum. Waste Heat Recovery System (WHRS) is installed at Pre- heater and cooler section for trapping gasses of high temperatures are being used for generation of Green Power which has resulted in conservation of fuel, reduction of GHG emissions and water conservation.

Company has separate AFR cell looking after the utilization of alternative fuels and raw materials. Unit is utilizing ETP sludge, Paint sludge, oily rags, waste mix solids, phosphate sludge, etc.

PART – H**ADDITIONAL MEASURES / INVESTMENTS PROPOSAL FOR ENVIRONMENT PROTECTION INCLUDING ABATEMENT OF POLLUTION**

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. Plantation has been carried out in an area of around 63.8 hectare with (Total land: 187.56 ha.) 165311 trees, which is ~34 % of the total land of plant area.

We have been incurred total Rs. 14,97,66,931 in environment management in following activities:

1. Plantation and greenbelt development and their maintenance.
2. General and periodically maintenance of all pollution control measures i.e. Bag houses, ESPs, dust collectors.
3. Flooring, paved roads and continuous housekeeping by vacuum sweeping machines machine and maintenance of vacuum sweeping machines.
4. Effective waste managements in plant, mine and colony premises.
5. General and periodically maintenance of CEMS and CAAQMS instruments.
6. Operation and reoccurring of STP installed in plant and colony premises.
7. Celebration of important days for spreading awareness tor protection of environment and conservation of natural resources.

The amount in same activities will be incurred in next year also.

PART – I**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, ambient air, noise & water quality is being done regularly basis.
3. Maintenance department is doing regular checking and scheduled maintenance of all the pollution control devices.
4. Civil dept. taking care of housekeeping.
5. Truck parking area and vehicle movement areas are paved and concreted to avoid any fugitive emissions.
6. 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 and every year carbon sequestration being is carried out during 2020-2021, 1772.86 tonnes of carbon and 6506.38 tonnes of CO₂ eq. has been sequestered.
7. Effective operation and maintenance of Bag House at Raw Mill & Kiln, Coal Mill, Cement mill and Cooler ESP.
8. Effective operation of cooler ESP transformer and control panel in first field to further reduce PM emission levels.
9. Constructed concreted roads at Stacker and Re-claimer area for further reduction of fugitive emissions.
10. Installed new bag filters at various application like DBC, transfer points etc.
11. Modification of Coal Mill Bag House for further reduction of Particulate emissions.
12. Installed NO_x mitigation systems in all cement kilns (Unit-3-10) as pollution control measure to achieve prescribed standards.
13. Covered shed and silos have been constructed for raw material storage.
14. Domestic waste water generated from office toilets and canteen is being treated at Sewage Treatment Plant (STP) and treated water is being utilized in plantation & gardening.
15. We are committed and maintaining Zero Liquid Discharge (ZLD) from our premises.

We are enclosing herewith following documents: -

Annexure-1: Stack Emission monitoring report (PM, SO₂ & NO_x)

Annexure-2: Ambient Air Quality (PM₁₀, PM_{2.5}, SO₂ and NO₂) & Ambient Noise Level
monitoring report

Annexure-3: STP treated water test report

Shree Cement Ltd, Ras

Unit-III

Stack Emission Monitoring Report (PM, SO₂ & NO_x)

Year: 2020-2021

| S. No. | Month | Raw Mill & Kiln Stack | | | Coal Mill Stack | Cooler Stack | Cement Mill Stack |
|---------|----------|-----------------------|-----------------|-----------------|-----------------|--------------|-------------------|
| | | PM | NO _x | SO ₂ | PM | PM | PM |
| | UoM | mg/Nm ³ | | | | | |
| 1 | Apr-2020 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | May-2020 | 12 | 433 | 7 | 14 | 18 | 14 |
| 3 | Jun-2020 | 17 | 405 | 29 | 13 | 07 | 13 |
| 4 | Jul-2020 | 14 | 389 | 16 | 11 | 13 | 18 |
| 5 | Aug-2020 | 10 | 505 | 6 | 15 | 09 | 20 |
| 6 | Sep-2020 | 16 | 465 | 2 | 13 | 11 | 14 |
| 7 | Oct-2020 | 16 | 502 | 14 | 13 | 11 | 25 |
| 8 | Nov-2020 | 15 | 598 | 11 | 14 | 20 | 16 |
| 9 | Dec-2020 | 23 | 402 | 09 | 13 | 16 | 19 |
| 10 | Jan-2021 | 12 | 368 | 13 | 15 | 20 | 13 |
| 11 | Feb-2021 | 26 | 371 | 17 | 12 | 10 | 22 |
| 12 | Mar-2021 | 10 | 483 | 22 | 15 | 16 | 20 |
| Average | | 14 | 410 | 12 | 12 | 13 | 16 |

Annexure: 2

| <u>Shree Cement Ltd, Ras</u> | | | | | | | | | | | | | | | | |
|--|---------------------------------|-------------|-----------------|-----------------|---------------------------------|-------------|-----------------|-----------------|---|-------------|-----------------|-----------------|--|-------------|-----------------|-----------------|
| <u>Ambient Air Quality ($\mu\text{g}/\text{m}^3$) Monitoring Report For The Period Of April 2020 To March 2021</u> | | | | | | | | | | | | | | | | |
| <u>Common for Cement plant & Power plant</u> | | | | | | | | | | | | | | | | |
| Location → | Plant Boundary Near Main Gate | | | | Plant Boundary Near Mess | | | | Plant Boundary towards Stackers & Reclaimer | | | | Plant boundary towards village Khera & Jawangarh | | | |
| | AAQ in $\mu\text{g}/\text{m}^3$ | | | | AAQ in $\mu\text{g}/\text{m}^3$ | | | | AAQ in $\mu\text{g}/\text{m}^3$ | | | | AAQ in $\mu\text{g}/\text{m}^3$ | | | |
| Parameter → | PM 2.5 | PM 10 | SO ₂ | NO ₂ | PM 2.5 | PM 10 | SO ₂ | NO ₂ | PM 2.5 | PM 10 | SO ₂ | NO ₂ | PM 2.5 | PM 10 | SO ₂ | NO ₂ |
| Apr-2020 | 36.9 | 53.9 | 10.2 | 14.4 | 29.9 | 49.4 | 10.4 | 15.5 | 31.4 | 47.4 | 8.9 | 14.8 | 26.9 | 46.6 | 9.6 | 14.3 |
| May-2020 | 34.3 | 56.1 | 9.1 | 13.1 | 31.9 | 53.5 | 9.2 | 13.8 | 31.9 | 52.5 | 8.8 | 13.5 | 30.1 | 51.3 | 8.3 | 12.9 |
| Jun-2020 | 35.6 | 57.4 | 8.4 | 13.9 | 33.3 | 55.1 | 9.0 | 14.2 | 30.1 | 49.1 | 8.2 | 13.9 | 28.8 | 50.0 | 7.8 | 13.4 |
| Jul-2020 | 18.5 | 24.0 | 12.7 | 10.7 | 16.9 | 27.4 | 14.2 | 12.4 | 15.3 | 27.4 | 14.1 | 12.0 | 15.0 | 28.0 | 13.5 | 11.3 |
| Aug-2020 | 10.6 | 23.4 | 13.1 | 12.6 | 12.9 | 24.4 | 11.2 | 12.9 | 14.1 | 20.0 | 13.0 | 13.1 | 11.9 | 26.4 | 12.8 | 12.7 |
| Sep-2020 | 12.6 | 19.9 | 8.9 | 13.9 | 10.6 | 20.3 | 13.1 | 15.0 | 8.4 | 17.9 | 11.3 | 14.0 | 10.8 | 23.8 | 10.6 | 13.6 |
| Oct-2020 | 14.4 | 21.5 | 9.1 | 12.0 | 12.9 | 22.3 | 11.9 | 12.6 | 10.9 | 18.8 | 11.0 | 12.3 | 12.3 | 19.5 | 10.1 | 11.8 |
| Nov-2020 | 17.6 | 26.0 | 10.1 | 12.2 | 15.3 | 25.5 | 12.3 | 13.1 | 15.3 | 25.5 | 11.6 | 12.6 | 18.5 | 25.3 | 10.9 | 12.0 |
| Dec-2020 | 21.0 | 28.5 | 11.0 | 11.7 | 18.6 | 30.5 | 12.1 | 12.1 | 19.6 | 29.3 | 11.9 | 11.7 | 20.6 | 30.4 | 11.4 | 11.3 |
| Jan-2021 | 28.8 | 38.5 | 14.2 | 16.4 | 26.9 | 39.0 | 16.0 | 16.8 | 25.9 | 37.9 | 15.1 | 15.6 | 28.4 | 40.5 | 13.9 | 15.1 |
| Feb-2021 | 32.9 | 39.5 | 11.1 | 16.9 | 28.6 | 41.8 | 11.9 | 16.7 | 30.0 | 40.4 | 11.3 | 16.0 | 30.9 | 41.3 | 10.9 | 15.6 |
| Mar-2021 | 37.6 | 42.5 | 8.4 | 16.9 | 33.3 | 47.1 | 10.3 | 17.1 | 33.8 | 49.6 | 8.9 | 17.6 | 34.3 | 47.6 | 8.3 | 17.0 |
| Average | 25.1 | 35.9 | 10.5 | 13.7 | 22.6 | 36.4 | 11.8 | 14.4 | 22.2 | 34.7 | 11.2 | 13.9 | 22.4 | 35.9 | 10.7 | 13.4 |

Shree Cement Ltd, Ras

Ambient Noise Level dB(A) Monitoring Report For The Period Of April 2020 To March 2021

Common for Cement plant & Power plant

| Location → | Plant Boundary Near Main Gate | | Plant Boundary Near Mess | | Plant Boundary towards Stacker & Reclaimer | | Plant boundary towards village Khera & Jawangarh | |
|------------------------------|-------------------------------|-------------|--------------------------|-------------|--|-------------|--|-------------|
| | Noise Level in dB(A) | | Noise Level in dB(A) | | Noise Level in dB(A) | | Noise Level in dB(A) | |
| Parameter → Month ↓ | Day time | Night time | Day time | Night time | Day time | Night time | Day time | Night time |
| Apr-2020 | 51.5 | 42.6 | 48.2 | 37.6 | 46.0 | 36.7 | 43.5 | 37.1 |
| May-2020 | 72.6 | 61.2 | 67.7 | 56.4 | 70.4 | 61.5 | 65.3 | 56.1 |
| Jun-2020 | 72.1 | 62.3 | 67.2 | 54.2 | 69.5 | 61.7 | 62.6 | 55.7 |
| Jul-2020 | 70.5 | 62.0 | 67.2 | 54.3 | 69.4 | 62.0 | 62.5 | 54.6 |
| Aug-2020 | 48.7 | 64.8 | 64.2 | 55.6 | 71.5 | 61.8 | 61.3 | 56.0 |
| Sep-2020 | 71.7 | 62.3 | 67.3 | 62.0 | 71.2 | 61.8 | 67.3 | 62.3 |
| Oct-2020 | 72.1 | 68.0 | 70.5 | 62.3 | 71.5 | 66.3 | 67.0 | 63.2 |
| Nov-2020 | 71.7 | 67.0 | 69.2 | 61.9 | 70.6 | 65.8 | 68.6 | 64.2 |
| Dec-2020 | 72.6 | 63.4 | 71.2 | 62.8 | 65.8 | 67.3 | 68.1 | 60.1 |
| Jan-2021 | 70.2 | 62.3 | 73.1 | 62.8 | 60.8 | 59.7 | 66.1 | 62.4 |
| Feb-2021 | 68.2 | 59.3 | 70.3 | 62.6 | 65.2 | 61.9 | 62.3 | 58.2 |
| Mar-2021 | 70.3 | 64.1 | 66.9 | 60.7 | 73.1 | 63.8 | 65.5 | 59.4 |
| Average | 67.7 | 61.6 | 66.9 | 57.8 | 67.1 | 60.9 | 63.3 | 57.4 |

Shree Cement Ltd, Ras
(STP Treated Water Quality Report for the period of April' 2020 to March' 2021)

| S. No. | Parameter↓ | Apr-20 | May-20 | Jun-20 | Jul-20 | Aug-20 | Sep-20 | Oct-20 | Nov-20 | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Avg. |
|--------|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 1 | pH | 7.54 | 7.44 | 7.65 | 6.96 | 7.33 | 7.82 | 7.22 | 7.29 | 7.36 | 7.11 | 7.4 | 7.61 | 7.39 |
| 2 | Total Suspended Solids (mg/L) | 59 | 63 | 71 | 66 | 52 | 68 | 73 | 52 | 44 | 59 | 38 | 73 | 60 |
| 3 | Oil and Grease (mg/L) | 2.8 | 3.6 | 4.3 | 0.9 | 0.7 | 1.0 | 5.1 | 1.6 | 2.4 | 2.1 | 2.3 | 1.4 | 2.4 |
| 4 | BOD 3days 27°C (mg/L) | 14.6 | 17.8 | 19.5 | 21.7 | 14.8 | 17 | 22 | 11 | 10 | 16 | 12 | 19 | 16.3 |
| 5 | COD (mg/L) | 75 | 88 | 97 | 138 | 122 | 157 | 141 | 80 | 74 | 103 | 71 | 88 | 103 |