RK
GROUP

**WCL/ENV/ESR/STP/2020-21/722** **Date: 24/09/2020**

**The Member Secretary**
Rajasthan state Pollution Control Board
4, Institutional Area, Jhalana Doongri
Jaipur (Raj.)

**Sub:** Submission of **Environmental Statement Report (Form-V)** (April, 2019 to March, 2020) for Residential Township Plant at Village – Rasulpura, Sangaria, Borakheri, and Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by M/s. Wonder Cement Ltd.

**Ref.:** File No. F(Tech)/Chittorgarh (Nimbahera)/9(1)/2010-2011/191-193 and Order No.: 2018-2019/CPM/5128 on Dated 06/04/2018.

Dear Sir,

With reference to aforesaid subject, we are herewith submitting the Environmental Statement Report (Form-V) for Residential Township plant, (STP-450 KLD) at Village –Rasulpura, Sangaria, Borakheri, Tehsil: Nimbahera, District: Chittorgarh, Rajasthan by M/s. Wonder Cement Ltd. for the financial year April-2019 to March- 2020.

We hope that you will find the same in order

Thanking you with regards,

For **M/s Wonder Cement Ltd.**

WONDER CEMENT LIMITED S.M.JOSHI Sr. PRESIDENT (WORKS) R.K. NAGAR, NIMBAHERA

**S.M. Joshi**
**Sr. President (Works)**

Encl: as above

CC: **The Regional Officer,** Rajasthan State Pollution Control Board, Near FCI Godown, Chanderiya, Chittorgarh (Raj) – 312 001 (723)

**WONDER CEMENT LIMITED**
**Works Office:** R. K. Nagar, Tehsil - Nimbahera - 312 601, District - Chittorgarh, Rajasthan (India)
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**Registered Office:** Makrana Road, Madanganj, Kishangarh - 305 801, District - Ajmer, Rajasthan (India)
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CIN: U26943RJ2005PLC021205

WONDER CEMENT

# ENVIRONMENTAL STATEMENT REPORT 2019-2020

## OF

## RESIDENTIAL TOWNSHIP PLANT

**AT**
**VILLAGE : RASULPURA, SANGARIA &**
**BORAKHERI, TEHSIL - NIMBAHERA,**
**DISTRICT-CHITTORGARH (RAJASTHAN)**

## SUBMITTED TO

**RAJASTHAN STATE POLLUTION CONTROL BOARD**

**For**

**M/s. WONDER CEMENT LIMITED,**

**At R.K. Nagar, Nimbahera-312601,**

**District: Chittorgarh (Raj)**

## ENVIRONMENTAL STATEMENT FORM-V

**(See rule 14)**

**Environmental Statement for the financial year ending with 31st March 2020**

**PART-A**

**General Information**

| **Name of the Industry** | **M/s Wonder Cement Limited** |
|---|---|
| Name and address of the owner/occupier of the industry Operation or process. | M/s. Wonder Cement Limited at R.K. Nagar, Tehsil - Nimbahera-312601, District-Chittorgarh (Raj.)<br>Residential Township plant |
| Industry category Primary-(STC Code) Secondary – (SIC Code) | Red |
| Production capacity | Plot area 29.35 Ha, Build Up area - 65817.00 Sq Meter |
| Year of establishment | 2012 |
| Date of the last environmental statement submitted. | 25th Sept., 2019 |

**PART – B**
**Water and Raw Material Consumption**

1) **Water Consumption ($m^3$/day)**

| **Water consumption** | |
|---|---|
| Process | Nil |
| Cooling | Nil |
| Domestic (Colony) | 370.95 |

| **S. No.** | **Name of the Products** | **Treated Water Generation** | |
|---|---|---|---|
| | | **During the previous financial year-2018-19** | **During the current financial year 2019-20** |
| 1. | Treated water | 315.0 (ETP+STP) | 333.481 (ETP+STP) |

2) **Raw material consumption**

| **Name of the Raw materials** | **Name of the Products** | **Consumption of raw material per unit output output** | |
|---|---|---|---|
| | | **During the previous financial year (2018-2019)** | **During the current financial year (2019-2020)** |
| Water Treatment Chemicals | Treated water | 1.16 kg/KL | 1.17 KG/KL |

## PART – C

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

| Pollution | Quantity of Pollutants discharged (mass/day) | Concentration of Pollutants discharged (mass/volume) | Percentage of variation from prescribed standards with reasons. |
|---|---|---|---|
| (b) Water | Results for treated effluent is being enclosed as **Annexure-1** | | Nil |
| (a) Air | There is a no source of release of air pollutants in residential township plant | | Nil |

## PART – D

**HAZARDOUS WASTES**
**(As specified under Hazardous & Other Wastes (Management & Trans-boundary Movement Rules, 2016)**

| S. No. | Hazardous Wastes | Total Quantity (KL) | |
|---|---|---|---|
| | | During the previous financial year 2018-19 | During the current financial year-2019-20 |
| a. | From Process (Waste Oil) | 1.89 | NIL |
| b. | From Pollution Control Facilities | Nil | Nil |

## PART – E

**SOLID WASTES**

| S. No. | Solid Wastes | Total Quantity (Kg) | |
|---|---|---|---|
| | | During the previous financial year 2018-19 | During the current financial year 2019-20 |
| a. | From Process | Nil | Nil |
| b. | From Pollution Control Facility STP sludge | 25.60 MT | 27.0 |
| c. | (1) Quantity recycled or re-utilized within the unit. | Sludge of STP is utilized as manure in greenbelt development / plantation within plant premises | |
| | (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 these categories of wastes.**

| S. No. | Waste Generation | Source | Qty. of waste disposed off during the current FY 2019-20 | Management/ Disposal Method. |
|---|---|---|---|---|
| Solid Waste:- | | | | |
| 1. | Sludge | STP | 27.0 MT | Sludge from sewage treatment plant (STP) is being used as manure for greenbelt development / plantation within the premises. |
| Hazardous waste: | | | | |
| 2. | Used /Waste Oil | STP | Nil | Nil |

**PART – G**

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

- Sludge from STP is being used as manure for greenbelt development / plantation within the premises.
- Rain Water Harvesting Measures: Rain water harvesting system has been installed to conserve water & to replenish ground water resources of the area for long term sustenance of the industry.
- To conserve the natural resources and protect environment, WCL has developed an extensive greenbelt in the plant & colony area.

**Plantation Details :**

| Duration | Mines Area (A) | | | Cement plant L-I,L-II, CTPP & Colony Area (B) | | | Out Side Plant Area (CSR) (C) | | | Grand Total (A+B+C) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Trees | Shrubs | Total | Trees | Shrubs | Total | Trees | Shrubs | Total | |
| Fy-2019-20 | 2054 | 464 | 2518 | 163 | 2471 | 2634 | 72 | 462 | 534 | 5686 |
| 2011-2012 to 2019-2020 | 50101 | 7163 | 57264 | 54370 | 57844 | 112214 | 20885 | 48739 | 69624 | 239102 |

## PART – H

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

- Good House keeping

***Expenditure on Environment Protection Measures:***

| S. No. | Particular | Recurring Cost per annum Rs. In Lakhs | |
|---|---|---|---|
| | | 2018-2019 | 2019-2020 |
| 1 | Cement Plant L-I+L-II+L-III Air & Water Pollution Control Equipment's Maintenance Cost | 57.3 | 56.3 |
| 2 | LS Mines Air ,Noise & Water Pollution Control Equipment's Maintenance Cost | 65.15 | 64.32 |
| 3 | CPP Air ,Noise & Water Pollution Control Equipment's Maintenance Cost | 27.45 | 19.18 |
| 4 | STP Water Pollution Control Equipment's Maintenance Cost | 4.52 | 6.8 |
| 5 | Power Cost of Pollution Control Equipment's for Cement Plant L-I+ L-II+L-IIICPP+STP+LS Mines | 1027.1551 | 1185.56 |
| 6 | Environment Protection Measures | 70.07 | 81 |
| 7 | Greenbelt development/plantation | 85.34 | 109.95 |
| 8 | Wild Life Conservation | 3 | 0 |
| Sub Total | | 1339.98289 | 1523.11 |
| 9 | Occupational Health Service | 51.44469 | 67.64137 |
| Total | | 1391.42758 | 1590.75137 |

***Proposed Expenditure on Environment Protection Measures (2020-21):***

| S. No. | Particular | Recurring Cost per annum In Lakhs |
|---|---|---|
| 1. | Cement Plant L-I+L-II+LIII Air & Water Pollution Control Equipment's Maintenance Cost | 58 |
| 2. | LS Mines Air ,Noise & Water Pollution Control Equipment's Maintenance Cost | 70.00 |
| 3. | CPP Air ,Noise & Water Pollution Control Equipment's Maintenance Cost | 15.58 |
| 4. | STP Water Pollution Control Equipment's Maintenance Cost | 8 |
| 5. | Power Cost of Pollution Control Equipment's for Cement Plant L-I+L-II+LIII+CPP+STP+LS Mines | 1185 |
| 6. | Environment Protection Measures | 90 |
| 7. | Greenbelt development/plantation | 73.19 |
| 8. | Wild Life Conservation | 22 |
| Sub Total | | 1521.77 |
| 9. | Occupational Health Service | 70.91 |
| Total | | 1592.68 |

**PART -I**

**Any other particulars for improving the quality of the environment**

- Energy and resource Management-
  - Installation of energy efficient lightings. Use of energy saving light fittings
  - Installing low watt tube lights
  - Procurement of energy efficient machineries
  - Minimizing idle running of vehicle , machines and electrical appliances
  - Optimizing loads and periodic preventive maintenance & lubrication
  - Periodic energy audits
- Environment cell: Environment Department has been established for the continuous check on the pollution abatement measures taken up & effective implementation of environment management plan.
- Improvement in Environment Protection Measures- Periodical review of IMS including compliance of environmental laws through periodic Management Review & Internal/ external audits
- Awareness promotion through various environmental competitions, workshops, presentations etc. on world environment day, Earth Day, Bio-diversity Day, Ozone Day etc.
- EHS inspection of all the sections throughout the plant premises.
- Planned to reduce the energy consumption in Fly ash Bag House motor by introducing the VFD (Variable Frequency Drive).
- Regular Inspection and maintenance (I&M) Programme for vehicles.

**Annexure -1**

❖ **Waste water analysis results**

**Sewage Treatment Plant**

| S. No. | Parameter | Standards as given in consent Letter For Treated Water | Annual Average Year 2019-2020 | |
|---|---|---|---|---|
| | | | STP Inlet | STP Outlet |
| 1. | pH | Between 5.5 - 9.0 | 7.08 | 7.2525 |
| 2. | Total Suspended Solids | Not to Exceed 100 mg/l | 123 | 2.75 |
| 3. | Oil & Grease | Not to Exceed 10 mg/l | 4.7025 | 0.5675 |
| 4. | B.O.D | Not to Exceed 30 mg/l | 73.125 | 17.975 |
| 5. | C.O.D. | Not to Exceed 250 mg/l | 424.375 | 86.13 |
| 6. | Copper (as Cu) | Max. 1.0 mg/l | 0.055 | 0.0775 |
| 7. | Iron (as Fe) | Max. 1.0 mg/l | 0.605 | 0.3075 |
| 8. | Amonical Nitrogen (as N) | Max.50 mg/l | 21.175 | 5.595 |
| 9. | Nitrate Nitrogen | Max. 10 mg/l | 4.9975 | 2.82 |
| 10. | Sulphate (so4) | Max. 1000 mg/l | 73.5 | 38.1 |
| 11. | Residual free chlorine | Max. 10 mg/l | BDL ( DL 0.20 mg/l) | BDL ( DL 0.20 mg/l) |
| 12. | Chlorides | Max. 1000 mg/l | 86.545 | 67.1175 |
| 13. | Sulphide | Max. 2.0mg/l | 0.323 | BDL ( DL 0.10 mg/l) |
| 14. | Phosphate | Max. 5.0 mg/l | 2.8525 | 0.6825 |
| 15. | Zinc | Max. 1.0 mg/l | 0.645 | 0.3675 |
| 16. | Total Chromium | Max.0.2 mg/l | 0.36 | 0.18 |

*Source: Third Party NABL Accredited Laboratory analysis*