

Ref: JK/CTO-(KAKRA)/2024-25/18/05

Date- 10.09.2024

To,  
Member Secretary,  
MP Pollution Control Board,  
Paryawaran Parisar, E-5, Arera Colony,  
Bhopal (MP).

Subject: **Environment Statement Report (Form-V) for FY. 2023-24 of Kakra- Panna Lime Stone Mine of M/s. J K Cement Limited, located at Various khasra at Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tehsil Amanganj, Distt- Panna (M.P.)**

Reference No.:

1. Ministry (MoEF&CC) letter no. J-11015/190/2016-IA-II(M) dated 31.08.2020
2. Corrigendum in EC Letter no. J-11015/190/2016-IA-II(M) dated 08.03.2021
3. Consent No: AWH-57726 dated 03.03.2023

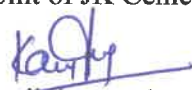
Dear sir,

With reference to aforesaid subject, please find herewith enclosed Environment Statement Report (Form-V) for FY.2023-24 of Kakra- Panna Lime Stone Mine of M/s. JK Cement Limited, located at Various khasra at Village- Kakra, Kamtana, Saptai, Judi, Devripurohit, Devra, Tehsil Amanganj, Distt- Panna (M.P.).

This is for your kind information and record, please.

Thanking you.  
Yours faithfully,

For Kakra Panna Limestone Mine  
(Unit of JK Cement Limited)

  
Kapil Agrawal  
(Unit Head)  
Encl: As above

CC: 1- The Regional Office (WZ), MoEF&CC, Kendriya Paryavaran Bhawan, Bhopal – 462 016  
2- Regional Officer, Regional Office, MP Pollution Control Board, Makronia, Sagar (MP)

Corporate Office

- 📍 Prism Tower, Ground Floor, Ninaniya Estate, Gwal Pahari, Gurugram, Haryana - 122102, India
- ☎ +0124-6919000
- 📧 admin.prismt@jkcement.com
- 🌐 www.jkcement.com
- CIN: L17229UP1994PLC017199

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**FORM – V**

**ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR 2023-24**

**Kakra-Panna Limestone Mine (Unit: M/s J K Cement Limited)**

**PART – A**

|        |   |   |   |
|--------|---|---|---|
| (i).   | Name and address of the owner/<br>Occupier of the industry/operation<br>or process. | : | <b>Kapil Agrawal</b><br>Unit Head<br>Kakra-Panna Limestone Mine,<br>M/s. J K Cement Limited,<br>Various Khasra at Village-Kakra, Kamtana,<br>Saptai, Judi, Dev, Village-Kakra,<br>Kamtana, Saptai, Judi, Devripurohit,<br>Devra, Tah- Amanganj, Distt-Panna (MP)  |
| (ii).  | Industry Category - Primary (STC<br>Code) / Secondary (STC Code)                    | : | Red Large Scale   |
| (iii). | Production Capacity Units   | : | <b>Mining of Limestone-4.08</b> Million Ton per year<br><b>Mine Waste-0.18</b> Million Ton per year<br><b>Mining of Sub –grade Limestone-0.58</b> Million<br>Ton per year<br><b>Mining of Inter burden –1.51</b> Million Ton per<br>year<br><b>Mining of Soil / Alluvium-1.26</b> Million Ton per<br>year |
| (iv).  | Year of establish   | : | <b>2023</b>   |
| (v).   | Date of the Last Environmental<br>Statement Submitted                               | : | <b>29.07.2023</b>   |

**PART – B**

**Water & Raw Material Consumption and Lime stone production**

**A. Water consumption KL/Day  
Over All Consumption**

- (i) Process (Dust Suppression) - **56.7 KL/Day (Total 20700 KL)**
- (ii) Cooling - NA
- (iii) Domestic - **1.11 KL/Day (Total 405 KL)**

**Consumption per unit of production**

| Name of the Product | Process Water Consumption per unit of Product Output<br>(KL/MT of Limestone) |  |
|---------------------|--|--|
|                     | During the Previous<br>Financial Year (2022-23)                              | During the Current<br>Financial Year (2023-24) |
| Lime Stone          | <b>0.00</b>  | <b>0.025</b>                                   |

**A. Raw Material Consumption**

| Name of the Raw<br>Material | Name of<br>Product | Consumption of Raw Material per Unit<br>Product Output (KL/MT of Limestone) |                    |
|-----------------------------|--------------------|---|--------------------|
|                             |                    | During the Previous   | During the Current |
|                             |                    |   |                    |

|   |           | Financial Year (2022-23) | Financial Year (2023-24) |
|---|-----------|--------------------------|--------------------------|
| Diesel  | Limestone | 0.00                     | 0.00087                  |
| This is a captive mine where Limestone excavated from the mining lease for manufacturing cement. The supporting raw materials used for mining are fuel (HSD). |           |                          |                          |

### B. Raw material Consumption

| (*) Name of Raw Materials   | Unit      | During the previous Financial year (2022-23) | During the current Financial year (2023-24) |
|---|-----------|--|---|
| Description   |           |  |   |
| Diesel  | Liters    | 0  | 726003                                      |
| Lubricant Oil   | Liters    | 0  | 6477  |
| Grease  | KG        | 0  | 227   |
| AFNO  | KG        | 0  | 0.00  |
| Slurry (Column, Prime, and base)  | KG        | 0  | 197425                                      |
| Electrical Detonators   | (In No's) | 0  | 379   |
| Nonel Detonators  | (In No's) | 0  | 90343                                       |
| Detonating fuse   | (in Mts)  | 0  | 0.00  |
| This is a captive mine where Limestone excavated from the mining lease for manufacturing cement. The supporting raw materials used for mining are fuel (HSD), Lubricant Oil and Grease for Heavy Earth Moving Machinerics (HEMM) and Explosives for blasting. |           |  |   |

### C. Total Material Production (in Ton)

| Product              | During the Previous Financial Year (2022-23) | During the Current Financial Year (2023-24) |
|----------------------|--|---|
| Lime Stone           | 0.00   | 833847.84                                   |
| Waste                | 0.00   | 45872.10                                    |
| Sub-grade Lime Stone | 0.00   | 0.00  |
| Inter Burden         | 0.00   | 0.00  |
| Soil/Alluvium        | 0.00   | 269533.6                                    |

**Note-** Month wise production data enclosed as **Annexure-1.**)

### D. Total Power consumption (KWH/ MT of Limestone)

| During the Previous Financial Year (2022-23) | During the Current Financial Year (2023-24) |
|--|---|
| 0.00   | 1.46  |

### E. Total Power consumption (KWH)

| During the Previous Financial Year (2022-23) | During the Current Financial Year (2023-24) |
|--|---|
| 0.00   | 3551170                                     |

**PART – C**

**Pollutant Discharged To Environment / Unit of Output  
(Parameters as specified in the consent issued)**

| S. No. | Pollutants | Quantity of Pollutants Discharged (Mass / day) (tonne/day)  | Concentrations of Pollutants in discharged (Mass / Volume) (kg/m <sup>3</sup> ) | Percentage of variation from prescribed standard with reasons |
|--------|------------|---|---|---|
| (a)    | Water      | Waste water generated from the office toilets is being discharged into the soak pit via septic tank. There is no waste water in the mine. Mine's pit water is used for dust suppression & plantation in mine. |   |   |
| (b)    | Air        | Air monitoring parameters as specified in consent and its percentage of variation from prescribed standards are enclosed as <b>Annexure-2</b> .   |   |   |

**PART – D**

**(As specified under Hazardous waste / Management and Handling rules, 1989 as Amended -2016)**

Hazardous waste generated will be stored in a dedicated area and will be disposed through registered recycler. During **FY: 2023-24** HW generation and disposed details is given below.

| Hazardous Wastes                      |  | Total Quantity sold to recycler                         |   |
|---------------------------------------|--|---|---|
| Description                           |  | During the previous Financial year (2022-23)            | During the current Financial year (2023-24) |
| (a) From Process                      | (a) Category 5.1 Used / Spent Oil  | <b>0.0</b>  | <b>9.348 MT</b>                             |
|                                       | (b) Category 5.2 Waste Residue Containing oil  | <b>0.0</b>  | <b>0.0</b>                                  |
|                                       | (c) Category 3.3 Sludge & Filters contaminated with oil  | <b>0.0</b>  | <b>0.0</b>                                  |
|                                       | (d) Category 33.1 Empty Barrels/containers/liners/contaminated with hazardous chemicals/wastes | <b>0.0</b>  | <b>0.0</b>                                  |
| (b) From Pollution Control Facilities | Nil  | No hazardous waste is generated during mining activity. |   |

Note- Used or Spent Oil **HW Category (5.1)- 9.348 MT** sent to register recycler **M/s Jay Bajarang Oil Industries, Plot no.4/9 GIDC, Chandisar, Tal-Palanpur Dist-Banaskantha, Gujarat-385510.**

**PART – E**

**SOLID WASTES**

| Solid Wastes                          | Total Quantity                               |  |
|---------------------------------------|--|--|
|                                       | During the previous Financial year (2022-23) | During the current Financial year (2023-24)  |
| (a) From Process                      | <b>N.A</b>                                   | <b>N.A</b>   |
| (b) From Pollution Control Facilities | <b>N.A</b>                                   | <b>N.A</b>   |
| (c) Quantity recycled or reutilized   | <b>N.A</b>                                   | <b>N.A</b>   |
| (i) Within the unit.                  | <b>N.A</b>                                   | <b>N.A</b>   |
| (ii) Sold                             | <b>N.A</b>                                   | <b>N.A</b>   |
| (iii) Dispose                         | <b>0.0 MT</b>                                | Mining of Inter burden: - Nil<br>Mining of Soil / Alluvium: - <b>269533.6 MT</b><br>Mine Waste: - <b>45872.10 MT</b> |

**PART – F**

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

**Hazardous waste:** Hazardous wastes like used spent oil generated from the mine are stored and subsequently disposed off to PCB's authorized recycler.

We have authorization for following type of Hazardous Waste and its mode of disposal.

| Sr.No. | Hazardous Waste  | Mode of Disposal                             |
|--------|--|--|
| 1      | Category 5.1- Used or Spent Oil  | CTSDF/Sale to Recyclers authorized with SPCB |
| 2      | Category 5.2- Wastes or residues containing oil  | CTSDF/Sale to Recyclers authorized with SPCB |
| 3      | Category 3.3- Sludge & Filters contaminated with oil                                       | CTSDF/Sale to Recyclers authorized with SPCB |
| 4      | Category 33.1-Empty Barrels/containers/liners/contaminated with hazardous chemicals/wastes | CTSDF/Sale to Recyclers authorized with SPCB |

**PART – G**

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

**AIR**

There is no impact observed on vegetation & water bodies in the surrounding areas due to dust, as it is suppressed on its generating sources.

The following measures are taken to suppress the dust at the source as well as to prevent the same spreading in the atmosphere:

- 1- Wet drilling system is provided on the drill machines.
- 2- Regular water sprinkling is done on haul road during operation.
- 3- Blasting parameters are optimised for proper fragmentation to reduce dust generation.
- 4- Plantation and development of Green Belt is done as per the approved mining plan.

### **WATER**

- 1- Being Mechanized Limestone mine, it requires water mainly for Wet Drilling, Road Spraying and Green Belt Development. The source of water will be the accumulated rainwater in the lower most benches. There will be no discharged of liquid effluent / waste water from the Mine.
- 2- There will be no discharge of rain water or waste water from the mine to outside lease area. Rain water in the catchment area of mine lease will be diverted through drainage in to mine pits and the water is used for dust suppression and plantation purpose.

### **NOISE**

- 1- Green Belt development for reducing noise.
- 2- PPEs will be provided to all workers.

## **PART – H**

### **Additional measures/investment proposed for environmental protection including abatement of pollution/prevention of pollution.**

Green belt development and tree plantation has been done as per approved Mining Plan. Blasting is done by using a combination of high strength and low strength explosives. Non-electric initiation is used in all of the blasts, which is costlier than conventional method of blasting. Non-electric initiation ensures least blast induced vibration, noise and fly rocks. Vibration is monitored by seismograph for each and every blast to ensure the parameters within specified limits.

### **Corporate Environment Responsibility (CER) Expenditure Report of Kakra-Panna Limestone Mine:**

| S.No. | Activities                                   | Expenditure till Oct., 2023 (in Lakhs) | Expenditure from November 23 to March, 2024 (in Lakhs) |
|-------|--|--|--|
| 1     | Health (Health, Check-up, Camp, Sports etc.) | 211.73                                 | 7.75   |
| 2     | Education (Books, Bags, Stationary etc.)     | 54.80                                  | 154.31   |
| 3     | Sanitation (Domestic water, Toilets etc.)    | 40.99                                  | 2.55   |
| 4     | Skill Development (Training centre etc.)     | 8.21                                   | 4.80   |
| 5     | Infrastructure (Road, Community Centre etc.) | 132.0                                  | 22.65  |

|       |                                  |               |              |
|-------|----------------------------------|---------------|--------------|
| 6     | Other Local Social Need          | 45.33         | 5.74         |
| 7     | Greenery Development Nearby Area | 251.66        | 0            |
| Total |                                  | <b>744.72</b> | <b>197.8</b> |

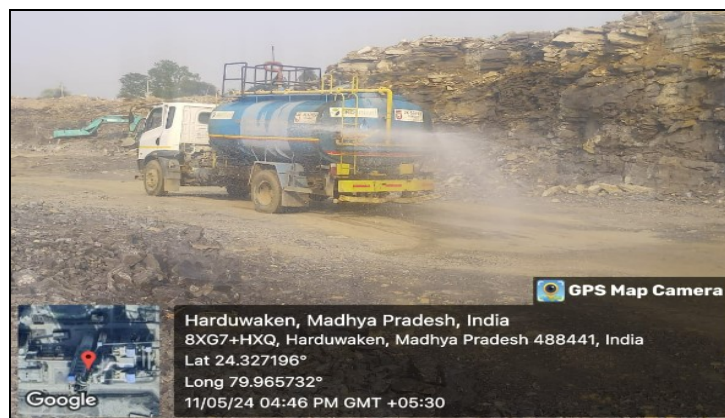
### PART – I

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

Various measures taken for the improvement of environment, details along with the photographs are given below.

- 1- CAAQMS is installed at Kamtana Village.
- 2- Third Party Environment Monitoring (NABL Accredited) is done on regular basis.
- 3- Sprinkling of water for dust suppression round the clock.
- 4- Green belt area developed as per the approved mining plan.
- 5- Use of non-electric initiation system in the blasting operation to reduce air blast & no fly rock

#### Photographs showing various Environment protection measures at Mines



**Water sprinkling photo**

**Training on Transportation at Mines, Imparting Training to our Operators & together we are one Team**



**Organized mega health camps in village Kakra and Kamtana**



Kamtana, Madhya Pradesh, India  
9XM5+XC3, Kamtana, Madhya Pradesh 488441, India  
Lat 24.384984°  
Long 79.958439°  
13/01/24 02:34 PM GMT +05:30



**Construction of Roof water Harvesting Structure at Devra Community Centre**



**Dated: 10.09.2024**

*Ajman*

*Kapil*

**Name: Kapil Agrawal**  
**Unit Head**  
(M/s J K Cement Limited.,  
For Kakra-Panna Lime Stone Mine

**Annexure-1**

| <b>M/s - J K Cement Limited, Kakra -Panna Limestone Mines Village- Kakra,Kamtana, Saptai, Judi, Devripurohit,&amp; Devra, Tehsil: - Amanganj Distt- Panna (MP)</b> |                                  |                        |  |                                    |                                       |
|--|----------------------------------|------------------------|--|------------------------------------|---------------------------------------|
|  | <b>FY: 2023-24</b>               |                        |  |                                    |                                       |
|  | <b>Limestone Production (MT)</b> | <b>Mine Waste (MT)</b> | <b>Mining of Sub –grade Limestone (MT)</b> | <b>Mining of Inter burden (MT)</b> | <b>Mining of Soil / Alluvium (MT)</b> |
| Apr-23   | 18                               | 0                      | 0  | 0                                  | 924                                   |
| May-23   | 0                                | 0                      | 0  | 0                                  | 1684                                  |
| Jun-23   | 128                              | 0                      | 0  | 0                                  | 2380                                  |
| Jul-23   | 0                                | 0                      | 0  | 0                                  | 0                                     |
| Aug-23   | 0                                | 0                      | 0  | 0                                  | 0                                     |
| Sep-23   | 99                               | 0                      | 0  | 0                                  | 2061                                  |
| Oct-23   | 631                              | 0                      | 0  | 0                                  | 3500                                  |
| Nov-23   | 115694                           | 5258                   | 0  | 0                                  | 54958                                 |
| Dec-23   | 159055                           | 7111                   | 0  | 0                                  | 65310                                 |
| Jan-24   | 125820                           | 8235                   | 0  | 0                                  | 85208                                 |
| Feb-24   | 32365                            | 1592                   | 0  | 0                                  | 35672                                 |
| Mar-24   | 400038                           | 23677                  | 0  | 0                                  | 17836                                 |
| <b>Total</b>   | <b>833847.84</b>                 | <b>45872.10</b>        | <b>0</b>                                   | <b>0</b>                           | <b>269533.6</b>                       |

## Annexure-2

**M/s -J K Cement Limited, Kakra -Panna Limestone Mines Village- Kakra,Kamtana,  
Saptai, Judi, Devripurohit,& Devra, Tehsil: - Amanganj Distt- Panna (MP)  
AMBIENT AIR QUALITY AT MINE (CORE ZONE)  
(Year 2023-24 )**

| Area                     | Description       | Permissible Limit<br>( $\mu\text{g}/\text{m}^3$ ) | Yearly Average<br>( $\mu\text{g}/\text{m}^3$ ) | % variation<br>from limit |
|--------------------------|-------------------|---|--|---------------------------|
| Near Mine<br>office      | PM <sub>2.5</sub> | 40  | <b>32.04</b>                                   | -19.91                    |
|                          | PM <sub>10</sub>  | 60  | <b>56.06</b>                                   | -6.56                     |
|                          | SO <sub>2</sub>   | 50  | <b>11.41</b>                                   | -77.17                    |
|                          | NO <sub>x</sub>   | 40  | <b>16.42</b>                                   | -58.96                    |
| Near<br>Crusher<br>Area  | PM <sub>2.5</sub> | 40  | <b>33.75</b>                                   | -15.61                    |
|                          | PM <sub>10</sub>  | 60  | <b>57.89</b>                                   | -3.52                     |
|                          | SO <sub>2</sub>   | 50  | <b>11.90</b>                                   | -76.21                    |
|                          | NO <sub>x</sub>   | 40  | <b>17.89</b>                                   | -55.27                    |
| Kakra Mine<br>Lease Area | PM <sub>2.5</sub> | 40  | <b>27.73</b>                                   | -30.66                    |
|                          | PM <sub>10</sub>  | 60  | <b>55.71</b>                                   | -7.14                     |
|                          | SO <sub>2</sub>   | 50  | <b>12.15</b>                                   | -75.71                    |
|                          | NO <sub>x</sub>   | 40  | <b>14.94</b>                                   | -62.65                    |

**M/s -J K Cement Limited, Kakra -Panna Limestone Mines Village- Kakra,Kamtana,  
Saptai, Judi, Devripurohit,& Devra, Tehsil: - Amanganj Distt- Panna (MP)  
AMBIENT AIR QUALITY AT MINE (BUFFER ZONE)  
(Year 2023-24 )**

| Area               | Description       | Permissible Limit<br>( $\mu\text{g}/\text{m}^3$ ) | Yearly Average<br>( $\mu\text{g}/\text{m}^3$ ) | % variation<br>from limit |
|--------------------|-------------------|---|--|---------------------------|
| Purena<br>Village  | PM <sub>2.5</sub> | 40  | <b>32.34</b>                                   | -19.15                    |
|                    | PM <sub>10</sub>  | 60  | <b>50.86</b>                                   | -15.24                    |
|                    | SO <sub>2</sub>   | 50  | <b>9.59</b>                                    | -80.82                    |
|                    | NO <sub>x</sub>   | 40  | <b>15.07</b>                                   | -62.32                    |
| Kamtana<br>Village | PM <sub>2.5</sub> | 40  | <b>34.34</b>                                   | -14.14                    |
|                    | PM <sub>10</sub>  | 60  | <b>48.45</b>                                   | -19.25                    |
|                    | SO <sub>2</sub>   | 50  | <b>10.67</b>                                   | -78.66                    |
|                    | NO <sub>x</sub>   | 40  | <b>15.83</b>                                   | -60.43                    |
| Pagra<br>Village   | PM <sub>2.5</sub> | 40  | <b>33.87</b>                                   | -15.33                    |
|                    | PM <sub>10</sub>  | 60  | <b>51.15</b>                                   | -14.75                    |
|                    | SO <sub>2</sub>   | 50  | <b>9.57</b>                                    | -80.85                    |
|                    | NO <sub>x</sub>   | 40  | <b>13.68</b>                                   | -65.80                    |