

Monthly Plant Environment monitoring report

Dated: 18<sup>th</sup> Nov'2020

**CHITTOR CEMENT PLANT**  
Of  
**Nuvoco Vistas Corp. Ltd.**  
(Villages- Bhawalia, Mangrol and Arniya Joshi, Tehsil- Nimbahera, District. Chittorgarh, Rajasthan)

Environmental Clearance letter no.:-

1. Letter No.: J-11011/1097/2007 IA-II (I) dated 23.12.2008 for Integrated Cement Plant (Cement 2.6 MTPA; Clinker 1.6 MTPA), Captive Power Plant (25 MW), DG set (5 MW) and Arniya Joshi Limestone Mining (2.6 MTPA, 1476.425 ha.)
2. J-11011/113/2011-IA-II (I) dated 19.06.2012 for Proposed Expansion of Cement Plant (from 1.6 MTPA to 2.6 MTPA).
3. J-11011/113/2011-IA-II (I) dated: - 16<sup>th</sup> November'2017, for proposed enhancement in Clinker production (from 1.60 to 1.94 MTPA) by process optimization.

| KEY PARAMETERS   |                                  |   |  |              |              |
|--|----------------------------------|---|--|--------------|--------------|
| A) Static Information  |                                  |   |  |              |              |
| 1.   | Plant Area                       | :   | 182.7 Hact.                            |              |              |
| 2.   | Production capacity              | :   | Clinker- 1.94 MTPA<br>Cement- 2.6 MTPA |              |              |
| 3.   | Date of Commencement of the work | :   | 30/9/2013.                             |              |              |
| B. Dynamic Parameters- Monitoring data for the month of Oct., 2020 |                                  |   |  |              |              |
| Pollutants in (µg/m <sup>3</sup> )                                 | RSPCB (Max.)                     | AAQM (Monthly Average) data                         |  |              |              |
|  |                                  | Location of Ambient Air Quality Monitoring Stations |  |              |              |
|  |                                  | Crusher Gate  | Mangrol Gate                           | Main Gate-1  | Township     |
| Particulate Matter (PM <sub>2.5</sub> )                            | 60                               | 34.68   | 32.83                                  | 36.62        | 30.91        |
| Particulate Matter (PM <sub>10</sub> )                             | 100                              | 65.35   | 61.19                                  | 63.65        | 55.03        |
| NO <sub>2</sub>  | 80                               | 20.92   | 21.70                                  | 23.17        | 18.24        |
| SO <sub>2</sub>  | 80                               | 8.70  | 9.51                                   | 9.80         | 8.65         |
| O <sub>3</sub>   | 180                              | 7.76  | 7.65                                   | 7.86         | 5.01         |
| Pb   | 1                                | 0.09  | 0.08                                   | 0.09         | 0.07         |
| CO   | 4                                | 0.61  | 0.62                                   | 0.58         | 0.60         |
| NH <sub>3</sub>  | 400                              | 6.57  | 7.31                                   | 7.57         | 5.00         |
| C <sub>6</sub> H <sub>6</sub>                                      | 5                                | BDL (DL 0.5)  | BDL (DL 0.5)                           | BDL (DL 0.5) | BDL (DL 0.5) |

**Nuvoco Vistas Corp. Ltd.**

Chittor Cement Plant, Village Bhawalia, Tehsil Nimbahera, Dist. Chittorgarh, Rajasthan 312620 (India).

Tel: +91 07727006120 | Websites: www.nuvoco.in | CIN - U26940MH1999PLC118229

Registered Office: Equinox Business Park, Tower-3, East Wing, 4th Floor, LBS Road, Kurla (West), Mumbai 400070

|               |    |              |              |              |              |
|---------------|----|--------------|--------------|--------------|--------------|
| BaP           | 1  | BDL (DL 0.1) | BDL (DL 0.1) | BDL (DL 0.1) | BDL (DL 0.1) |
| As            | 6  | BDL (DL 0.5) | BDL (DL 0.5) | BDL (DL 0.5) | BDL (DL 0.5) |
| Ni            | 20 | 3.96         | 4.37         | 4.06         | 3.24         |
| Mercury as Hg | -- | BDL (DL 0.5) | BDL (DL 0.5) | BDL (DL 0.5) | BDL (DL 0.5) |

**C. Green belt development /Plantation data.**

|   |   |                |                |                |                |                |
|---|---|----------------|----------------|----------------|----------------|----------------|
| <b>No. of Plants are planted till Mar.'20</b>                             | 66020 Sampling have are planted from 2011 to March'20 at Plant, Colony & Nearby area under CSR activity by Nuvovo Vistas Corp. Limited. |                |                |                |                |                |
| <b>Calendar year wise (Nos).</b>  | <b>2011-12</b>  | <b>2012-13</b> | <b>2013-14</b> | <b>2014-15</b> | <b>2015-16</b> | <b>2016-17</b> |
|   | 8092  | 4970           | 15107          | 4750           | 8600           | 5154           |
| <b>Month-wise Plantation of NVCL Chittor Cement Plant in FY- 2020-21.</b> | <b>2017-18</b>  | <b>2018-19</b> | <b>2019-20</b> |                |                |                |
|   | 8112  | 3946           | 4063           |                |                |                |
|   | <b>April'20</b>   | <b>May'20</b>  | <b>June'20</b> | <b>July'20</b> | <b>Aug.'20</b> | <b>Sept'20</b> |
|   | 00  | 00             | 1040           | 1860           | 800            | 130            |
|   | <b>Oct.'20</b>  |                |                |                |                |                |
|   | 50  |                |                |                |                |                |

*Sanjay Tyagi*  
**Sanjay Kumar Tyagi**  
 (Vice President-CCP)

Monthly Mines Environment monitoring report

Dated: 18<sup>th</sup> Nov'2020

**ARNIYA JOSHI LIMESTONE MINE, VILLAGE ARNIYA JOSHI, MOTA, SAHBAD  
And  
SRK LIMESTONE MINE, VILLAGE-SITARAM JI KA KHERA  
Of  
NUVOCO VISTAS CORPORATION LTD.  
TEHSIL- NIMBAHERA, DISTRICT- CHITTORGARH (RAJ.)**

**ENVIRONMENT CLEARANCE LETTER NO.:-**

1. Arniya Joshi Limestone mine- J-11011/1097/2007-IA (I) dated 23.12.2008 for integrated Cement Plant (Cement 1.6 MTPA, Clinker 1.6 MTPA), Captive Power Plant (25 MW), DG set (5 MW) and Arniya Joshi Limestone mining (2.6 MTPA, 1476.25 ha.).

| KEY PARAMETERS                                     |                                  |  |  |                       |
|--|----------------------------------|--|--|-----------------------|
| <b>A) Static Information</b>                       |                                  |  |  |                       |
| 1  | Mine Lease Area                  | :  | Arniya Joshi Limestone Mine- 1476.25 Ha.   |                       |
| 2  | Production capacity              | :  | Limestone - 2.6 MTPA.  |                       |
| 3  | Lease duration                   |  | Upto -2041.  |                       |
| 4  | Date of Commencement of the work |  | Mining of lime stone at the site commenced after obtaining consent to operate for major mineral mine at near village- Arniya Joshi, Tehsil- Nimbahera, District- Chittorgarh (Raj.), (ML no.-10/06) from RSPCB vide there letter no. F (Mines)/Chittorgarh (Nimbahera)/3/2009-2010/6673-6678, dated- 26/10/2012. |                       |
| <b>B. Green belt development /Plantation data.</b> |                                  |  |  |                       |
| No. Of Plants are planted                          |                                  | 27773 Plants are planted from 2013-14 to 2019-20 at AJ mining lease area by Nuvovo Vistas Corp. Limited. |  |                       |
| Calendar year wise (Nos).                          | 2013-14                          | 2014-15  | 2015-16  | 2016-17               |
|  | 3360                             | 3742   | 760  | 8216                  |
|  | 2017-18                          | 2018-19  | 2019-20  | 2020-21 (Upto Oct'20) |
|  | 6185                             | 3015   | 2495   | 2370                  |

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C. Dynamic Parameters- Monitoring data for the month of Oct.'2020 for AJ Mine

| Pollutants in<br>( $\mu\text{g}/\text{m}^3$ )  | RSPCB<br>(Max.) | AAQ (Monthly Average) data                          |                     |                           |                       |
|--|-----------------|---|---------------------|---------------------------|-----------------------|
|  |                 | Location of Ambient Air Quality Monitoring Stations |                     |                           |                       |
|  |                 | AJ Mines<br>Office                                  | Sarvodiya<br>Office | AJ Mine South<br>Boundary | Village- Arniya Joshi |
| Particulate<br>Matter<br>( $\text{PM}_{2.5}$ ) | 60              | 33.87   | 30.21               | 28.15                     | 29.10                 |
| Particulate<br>Matter<br>( $\text{PM}_{10}$ )  | 100             | 68.37   | 66.15               | 63.65                     | 61.22                 |
| $\text{NO}_2$                                  | 80              | 22.76   | 21.24               | 20.15                     | 20.23                 |
| $\text{SO}_2$                                  | 80              | 11.53   | 11.66               | 10.54                     | 9.22                  |
| $\text{O}_3$                                   | 180             | 21.16   | 22.30               | 18.52                     | 16.20                 |
| Pb   | 1               | 0.10  | 0.11                | 0.09                      | 0.07                  |
| CO   | 4               | 0.66  | 0.74                | 0.62                      | 0.58                  |
| $\text{NH}_3$                                  | 400             | 12.55   | 11.03               | 9.35                      | 9.81                  |
| $\text{C}_6\text{H}_6$                         | 5               | BDL (DL 0.5)  | BDL (DL 0.5)        | BDL (DL 0.5)              | BDL (DL 0.5)          |
| BaP  | 1               | BDL (DL 0.1)  | BDL (DL 0.1)        | BDL (DL 0.1)              | BDL (DL 0.1)          |
| As   | 6               | BDL (DL 0.5)  | BDL (DL 0.5)        | BDL (DL 0.5)              | BDL (DL 0.5)          |
| Ni   | 20              | 3.59  | 3.29                | 2.09                      | 2.11                  |
| Mercury as Hg                                  |                 | BDL (DL 0.5)  | BDL (DL 0.5)        | BDL (DL 0.5)              | BDL (DL 0.5)          |



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 And  
 SRK LIMESTONE MINE, VILLAGE-SITARAM JI KA KHERA  
 Of  
 NUVOCO VISTAS CORPORATION LTD.  
 TEHSIL- NIMBAHERA, DISTRICT- CHITTORGARH (RAJ.)

ENVIRONMENT CLEARANCE LETTER NO.:-

1. SRK Limestone mine- J-11015/268/2011-IA-II (M) dated 17.09.2014 for Limestone mine with production capacity of 2.6 million TPA (ROM) (602 ha.).

| KEY PARAMETERS        |                                  |   |  |
|-----------------------|----------------------------------|---|--|
| A) Static Information |                                  |   |  |
| 1                     | Mine Lease Area                  | : | Lime stone Mine - 602 Ha.  |
| 2                     | Production capacity              | : | Limestone- 2.6 MTPA.   |
| 3                     | Lease duration                   |   | SRK Mine- 2047.  |
| 4                     | Date of Commencement of the work |   | Sita Ram Ji Ka Khera Limestone mine:- Mining of lime stone at the site commenced after obtaining consent to operate for major mineral mine at near village- Sita Ram Ji ka Khera, Tehsil- Nimbahera, District- Chittorgarh (Raj.) (ML. No. 9/92) From RSPCB vide their letter no. (Mines)/Chittorgarh (Nimbahera)/1857(1)/2015-16/156-160. Dated- 15/4/2015. |

B. Vibration (PPV): 1.5 mm/sec. @ 45.74 Hz.

C. Green belt development /Plantation data.

| No. Of Plants are planted<br>Calendar year wise (Nos). | 26327 Plants are planted from 201-17 to 2019-20 at SRK Mining lease by Nuvoco Vistas Corp. Ltd. |         |         |         |                       |
|--|---|---------|---------|---------|-----------------------|
|  | 2016-17   | 2017-18 | 2018-19 | 2019-20 | 2020-21 (Upto Oct'20) |
|  | 8352  | 6690    | 5439    | 5846    | 5055                  |

D. Dynamic Parameters- Monitoring data for the month of Oct.'2020 for SRK Mine.

| Pollutants in<br>( $\mu\text{g}/\text{m}^3$ )  | RSPCB<br>(Max.) | AAQ (Monthly Average) data                          |                           |                                     |                      |
|--|-----------------|---|---------------------------|-------------------------------------|----------------------|
|  |                 | Location of Ambient Air Quality Monitoring Stations |                           |                                     |                      |
|  |                 | Crusher<br>(LS)                                     | SRK Mine<br>(petrol pump) | Village –<br>Sitaram ji ka<br>khera | Village - Tila khera |
| Particulate<br>Matter<br>( $\text{PM}_{2.5}$ ) | 60              | 40.12   | 39.20                     | 34.15                               | 33.10                |
| Particulate<br>Matter<br>( $\text{PM}_{10}$ )  | 100             | 71.43   | 69.25                     | 63.15                               | 64.29                |
| $\text{NO}_2$                                  | 80              | 24.67   | 23.24                     | 21.25                               | 20.43                |
| $\text{SO}_2$                                  | 80              | 11.13   | 10.16                     | 10.14                               | 11.20                |
| $\text{O}_3$                                   | 180             | 21.16   | 22.30                     | 20.02                               | 19.10                |
| Pb   | 1               | 0.10  | 0.11                      | 0.08                                | 0.09                 |
| CO   | 4               | 0.70  | 0.79                      | 0.58                                | 0.62                 |
| $\text{NH}_3$                                  | 400             | 11.35   | 12.03                     | 09.35                               | 09.82                |
| $\text{C}_6\text{H}_6$                         | 5               | BDL (DL<br>0.5)                                     | BDL (DL 0.5)              | BDL (DL 0.5)                        | BDL (DL 0.5)         |
| BaP  | 1               | BDL (DL 0.1)  | BDL (DL 0.1)              | BDL (DL 0.1)                        | BDL (DL 0.1)         |
| As   | 6               | BDL (DL<br>0.5)                                     | BDL (DL 0.5)              | BDL (DL 0.5)                        | BDL (DL 0.5)         |
| Ni   | 20              | 3.41  | 4.16                      | 2.09                                | 2.81                 |
| Mercury as Hg                                  |                 | BDL (DL<br>0.5)                                     | BDL (DL 0.5)              | BDL (DL 0.5)                        | BDL (DL 0.5)         |



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