

JNCGU/ENV/2021/03

Date - 07.10.2021

To  
The Member Secretary,  
M.P. Pollution Control Board,  
Parayavaran Parisar, E-5 Arera Colony  
Bhopal (M.P.) - 462016

**Subject: - Quarterly Air & Water Monitoring Report under Air & Water (Prevention & Control of Pollution) Act 1981 & 1974 respectively.**

Dear Sir,

Please find enclosed herewith Ambient Air Quality, Stack Emission Monitoring Reports for the Quarter (July, 2021- September, 2021) for Jaypee Nigrie Cement Grinding (A Unit of M/s Jaiprakash Power Ventures Ltd.)

Thanking You,

Yours Sincerely,  
**For Jaypee Nigrie Cement Grinding Unit**  
(A Unit of Jaiprakash Power Ventures Ltd.)

  
**Nadim Ahmad Khan**  
Vice - President (Chemistry & Environment)

Encl: - As Above

CC. **Regional Officer**  
M.P. Pollution Control Board,  
Bhakuar, Naugadh,  
District: Singrauli (MP) - 486669

- For kind information please.

## Annexure - I

**JAYPEE NIGRIE CEMENT GRINDING UNIT**  
(A Unit of Jaiprakash Power Ventures Limited)

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: July, 2021

| LOCATION : Near STP (Colony Area)                     |                |                                       |                                      |                                     |                                     |                                  |
|---|----------------|---------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 20.0                                  | 40.7                                 | 4.2                                 | 11.6                                | 0.401                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 17.5                                  | 34.3                                 | 3.4                                 | 9.3                                 | 0.318                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 12.2                                  | 23.2                                 | 2.7                                 | 9.0                                 | 0.269                            |
| 4 <sup>th</sup>                                       | Weekly Average | 13.1                                  | 27.6                                 | 3.9                                 | 9.4                                 | 0.248                            |
| LOCATION : Near H <sub>2</sub> Gas Cylinder Shed      |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 21.4                                  | 44.0                                 | 5.2                                 | 11.4                                | 0.426                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 22.5                                  | 43.8                                 | 5.7                                 | 12.2                                | 0.413                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 15.4                                  | 33.1                                 | 4.0                                 | 10.4                                | 0.372                            |
| 4 <sup>th</sup>                                       | Weekly Average | 13.3                                  | 29.6                                 | 4.4                                 | 10.7                                | 0.417                            |
| LOCATION : Near Watch Tower 22 (Cement Grinding Unit) |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 24.3                                  | 52.9                                 | 6.6                                 | 14.0                                | 0.533                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 19.3                                  | 45.1                                 | 5.9                                 | 13.6                                | 0.429                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 15.3                                  | 30.3                                 | 4.0                                 | 10.0                                | 0.406                            |
| 4 <sup>th</sup>                                       | Weekly Average | 14.5                                  | 31.3                                 | 5.4                                 | 12.5                                | 0.388                            |
| LOCATION : Near Fuel Storage Tank                     |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 28.9                                  | 57.7                                 | 7.4                                 | 14.0                                | 0.553                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 20.1                                  | 43.5                                 | 4.1                                 | 11.7                                | 0.498                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 18.0                                  | 37.0                                 | 6.0                                 | 14.0                                | 0.420                            |
| 4 <sup>th</sup>                                       | Weekly Average | 15.9                                  | 31.1                                 | 5.0                                 | 12.5                                | 0.379                            |

For Jaypee Nigrie Cement Grinding Unit

  
Authorized Signatory

## Annexure - I

**JAYPEE NIGRIE CEMENT GRINDING UNIT**  
(A Unit of Jaiprakash Power Ventures Limited)

**AMBIENT AIR QUALITY MONITORING REPORT****MONTH: August, 2021**

| LOCATION : Near STP (Colony Area)                     |                |                                       |                                      |                                     |                                     |                                  |
|---|----------------|---------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 11.4                                  | 24.6                                 | 5.5                                 | 9.3                                 | 0.285                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 14.3                                  | 26.8                                 | 5.6                                 | 10.0                                | 0.250                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 12.3                                  | 23.4                                 | 6.0                                 | 9.0                                 | 0.231                            |
| 4 <sup>th</sup>                                       | Weekly Average | 15.0                                  | 32.1                                 | 5.6                                 | 10.7                                | 0.316                            |
| LOCATION : Near H <sub>2</sub> Gas Cylinder Shed      |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 15.5                                  | 34.5                                 | 5.4                                 | 9.9                                 | 0.320                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 16.9                                  | 33.8                                 | 5.5                                 | 9.6                                 | 0.343                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 12.9                                  | 27.1                                 | 5.6                                 | 11.7                                | 0.328                            |
| 4 <sup>th</sup>                                       | Weekly Average | 16.0                                  | 33.9                                 | 5.7                                 | 12.7                                | 0.438                            |
| LOCATION : Near Watch Tower 22 (Cement Grinding Unit) |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 14.3                                  | 28.1                                 | 5.9                                 | 11.2                                | 0.419                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 19.4                                  | 40.1                                 | 5.7                                 | 14.5                                | 0.355                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 13.3                                  | 24.8                                 | 5.4                                 | 10.4                                | 0.316                            |
| 4 <sup>th</sup>                                       | Weekly Average | 21.2                                  | 40.6                                 | 5.8                                 | 13.8                                | 0.492                            |
| LOCATION : Near Fuel Storage Tank                     |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 17.4                                  | 38.6                                 | 5.7                                 | 11.5                                | 0.492                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 15.3                                  | 29.6                                 | 5.5                                 | 13.8                                | 0.388                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 18.5                                  | 37.9                                 | 5.5                                 | 12.3                                | 0.369                            |
| 4 <sup>th</sup>                                       | Weekly Average | 20.5                                  | 41.6                                 | 6.0                                 | 13.4                                | 0.514                            |

For Jaypee Nigrie Cement Grinding Unit

*Wade*  
Authorized Signatory

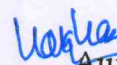
## Annexure - I

**JAYPEE NIGRIE CEMENT GRINDING UNIT**  
(A Unit of Jaiprakash Power Ventures Limited)

**AMBIENT AIR QUALITY MONITORING REPORT****MONTH: September, 2021**

| LOCATION : Near STP (Colony Area)                     |                |                                       |                                      |                                     |                                     |                                  |
|---|----------------|---------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 18.7                                  | 32.2                                 | 4.9                                 | 11.1                                | 0.321                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 19.5                                  | 39.1                                 | 5.3                                 | 10.9                                | 0.365                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 16.2                                  | 33.1                                 | 5.6                                 | 11.8                                | 0.296                            |
| 4 <sup>th</sup>                                       | Weekly Average | 17.9                                  | 36.6                                 | 5.2                                 | 10.5                                | 0.372                            |
| LOCATION : Near H <sub>2</sub> Gas Cylinder Shed      |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 23.5                                  | 43.5                                 | 6.0                                 | 12.6                                | 0.382                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 21.3                                  | 40.9                                 | 6.7                                 | 11.2                                | 0.406                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 24.5                                  | 41.6                                 | 7.9                                 | 13.0                                | 0.398                            |
| 4 <sup>th</sup>                                       | Weekly Average | 19.4                                  | 39.0                                 | 5.3                                 | 12.4                                | 0.412                            |
| LOCATION : Near Watch Tower 22 (Cement Grinding Unit) |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 22.5                                  | 47.3                                 | 5.4                                 | 13.7                                | 0.440                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 19.8                                  | 38.0                                 | 5.8                                 | 14.0                                | 0.414                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 26.9                                  | 54.3                                 | 6.9                                 | 11.7                                | 0.460                            |
| 4 <sup>th</sup>                                       | Weekly Average | 23.6                                  | 48.5                                 | 6.6                                 | 12.5                                | 0.569                            |
| LOCATION : Near Fuel Storage Tank                     |                |                                       |                                      |                                     |                                     |                                  |
| Name of Week  | Particulars    | PM2.5<br>( $\mu\text{g}/\text{m}^3$ ) | PM10<br>( $\mu\text{g}/\text{m}^3$ ) | SO2<br>( $\mu\text{g}/\text{m}^3$ ) | NO2<br>( $\mu\text{g}/\text{m}^3$ ) | CO<br>( $\text{mg}/\text{m}^3$ ) |
| 1 <sup>st</sup>                                       | Weekly Average | 26.4                                  | 51.2                                 | 6.8                                 | 13.4                                | 0.500                            |
| 2 <sup>nd</sup>                                       | Weekly Average | 22.1                                  | 43.9                                 | 6.0                                 | 12.2                                | 0.530                            |
| 3 <sup>rd</sup>                                       | Weekly Average | 30.3                                  | 55.3                                 | 7.3                                 | 15.2                                | 0.669                            |
| 4 <sup>th</sup>                                       | Weekly Average | 32.6                                  | 61.1                                 | 7.1                                 | 12.4                                | 0.721                            |

For Jaypee Nigrie Cement Grinding Unit



Authorized Signatory

**JAYPEE NIGRIE CEMENT GRINDING UNIT**  
(A Unit of Jaiprakash Power Ventures Limited)

Annexure - II

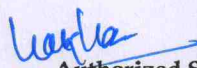
**QUARTERLY REPORT OF PARTICULATE MATTER EMISSION FROM POINT SOURCE (STACK)**

Month: July, 2021 - September, 2021

| Sr.No. | UNIT STACK ATTACHED WITH<br>PCE (POLLUTION CONTROLLING<br>EQUIPMENT) | DUST CONC. (mg/Nm <sup>3</sup> ) |        |        |
|--------|--|----------------------------------|--------|--------|
|        |  | Jul-21                           | Aug-21 | Sep-21 |
| 1      | Roller Press   | 1.84                             | 1.83   | 1.76   |
| 2      | Cement Mill  | 1.44                             | 1.44   | 1.26   |

Note : Plant has been run only for 21.41 Hrs during this Quarter(July,21-Sept,21).

For Jaypee Nigrie Cement Grinding Unit

  
Authorized Signatory