

**JAYPEE NIGRIE CEMENT GRINDING UNIT**

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

**JAIPRAKASH**  
POWER VENTURES LIMITED

JNCGU/ENV/2020/03

Date: - 05.10.2020

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) Acts 1981 & 1974 respectively.**

Dear Sir,

Please find enclosed herewith Ambient Air Quality Monitoring, Stack Monitoring Reports for the **Quarter (July 2020 - September 2020)** for Jaypee Nigrie Cement Grinding Unit of M/s. Jaiprakash Power Ventures Ltd.

Thanking You,

Yours Sincerely,

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

  
**K.B. Gupta**  
DGM - (QC & Env)

Encl: - As Above

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

- For kind information please.



Regd Office

**Site** : Jaypee Nigrie Cement Grinding Unit, Village & P.O. Nigrie, Tehsil Deosar  
Distt. : Singrauli (M.P.) Ph. : +91 (7801) 286021-36 Fax : +91 (7801) 286020  
**Corp. Office** : Sector-128, Noida-201 304, Uttar Pradesh (India)  
Ph. : +91 (120) 4609000, 2470800 Fax : +91 (120) 4609464, 4609496  
**Regd. Office** : JUIT Complex, Waknaghat, P.O. Dumehar Bani, Kandaghat-173215, Distt. Solan (H.P.)  
Ph. : +91 (1792) 257999, 245367 Fax : +91 (1792) 245362  
Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie  
Tehsil Sarai District Singrauli 486669 (Madhya Pradesh)

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

**AMBIENT AIR QUALITY MONITORING REPORT**

MONTH: July 2020

LOCATION : Near STP - (Colony Area)						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	16.3	43.6	5.1	9.0	0.383
2 <sup>nd</sup>	Weekly Average	16.8	41.2	4.5	11.6	0.394
3 <sup>rd</sup>	Weekly Average	11.5	25.7	4.8	9.6	0.302
4 <sup>th</sup>	Weekly Average	10.9	21.7	5.1	10.3	0.219
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	24.3	56.0	8.8	13.8	0.400
2 <sup>nd</sup>	Weekly Average	23.3	53.0	5.7	15.2	0.627
3 <sup>rd</sup>	Weekly Average	16.9	30.1	9.3	14.9	0.615
4 <sup>th</sup>	Weekly Average	13.8	31.3	7.9	13.3	0.512
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	19.5	50.4	8.0	13.9	0.506
2 <sup>nd</sup>	Weekly Average	23.8	55.1	6.7	11.5	0.617
3 <sup>rd</sup>	Weekly Average	20.3	38.5	7.2	12.5	0.210
4 <sup>th</sup>	Weekly Average	19.8	42.3	8.1	13.7	0.344
LOCATION : Near Fuel Oil Storage Tank						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	29.8	62.4	9.5	13.8	0.690
2 <sup>nd</sup>	Weekly Average	25.3	58.8	7.4	15.5	0.650
3 <sup>rd</sup>	Weekly Average	18.2	34.5	6.6	14.9	0.404
4 <sup>th</sup>	Weekly Average	19.1	38.4	6.1	13.7	0.524

For Jaypee Nigrie Cement Grinding Unit

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Authorized Signatory

**JAYPEE NIGRIE CEMENT GRINDING UNIT**  
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**AMBIENT AIR QUALITY MONITORING REPORT**

**MONTH: August 2020**

LOCATION : Near STP -(Colony Area)						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	13.7	33.6	3.9	10.8	0.331
2 <sup>nd</sup>	Weekly Average	15.0	38.3	4.8	10.2	0.344
3 <sup>rd</sup>	Weekly Average	14.9	27.7	6.2	11.0	0.391
4 <sup>th</sup>	Weekly Average	11.5	23.2	5.9	9.2	0.320
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	15.4	46.0	7.0	13.8	0.373
2 <sup>nd</sup>	Weekly Average	18.8	48.0	6.6	11.7	0.505
3 <sup>rd</sup>	Weekly Average	19.7	44.7	7.8	14.2	0.589
4 <sup>th</sup>	Weekly Average	11.7	27.2	6.2	11.1	0.414
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	14.5	41.3	4.6	10.8	0.457
2 <sup>nd</sup>	Weekly Average	18.0	35.9	5.8	13.2	0.578
3 <sup>rd</sup>	Weekly Average	24.1	55.6	8.0	12.2	0.465
4 <sup>th</sup>	Weekly Average	13.5	36.2	6.5	11.2	0.343
LOCATION : Near Fuel Oil Storage Tank						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	22.3	51.4	8.1	13.3	0.600
2 <sup>nd</sup>	Weekly Average	20.9	47.1	6.4	12.8	0.582
3 <sup>rd</sup>	Weekly Average	19.1	49.2	7.0	15.0	0.529
4 <sup>th</sup>	Weekly Average	15.5	35.7	7.8	14.2	0.692

For Jaypee Nigrie Cement Grinding Unit

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Authorized Signatory

**JAYPEE NIGRIE CEMENT GRINDING UNIT**  
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**AMBIENT AIR QUALITY MONITORING REPORT**

**MONTH: September 2020**

LOCATION : Near STP -(Colony Area)						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	16.0	38.6	5.8	10.7	0.403
2 <sup>nd</sup>	Weekly Average	19.6	33.3	6.5	12.8	0.499
3 <sup>rd</sup>	Weekly Average	20.5	40.5	6.0	12.3	0.423
4 <sup>th</sup>	Weekly Average	13.6	38.7	6.4	10.3	0.410
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	16.4	37.2	7.2	12.0	0.508
2 <sup>nd</sup>	Weekly Average	17.0	33.2	7.9	15.4	0.610
3 <sup>rd</sup>	Weekly Average	23.6	48.9	8.4	13.4	0.685
4 <sup>th</sup>	Weekly Average	15.9	42.7	6.2	10.9	0.459
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	18.7	34.2	7.1	14.7	0.440
2 <sup>nd</sup>	Weekly Average	23.5	53.2	6.4	15.4	0.540
3 <sup>rd</sup>	Weekly Average	28.7	61.7	6.0	15.2	0.566
4 <sup>th</sup>	Weekly Average	33.2	76.8	7.8	14.5	0.567
LOCATION : Near Fuel Oil Storage Tank						
Name of Week	Particulars	PM2.5 ( $\mu\text{g}/\text{m}^3$ )	PM10 ( $\mu\text{g}/\text{m}^3$ )	SO2 ( $\mu\text{g}/\text{m}^3$ )	NO2 ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	25.2	43.7	5.5	12.6	0.554
2 <sup>nd</sup>	Weekly Average	19.7	39.9	6.5	15.4	0.697
3 <sup>rd</sup>	Weekly Average	24.5	59.8	7.2	16.3	0.604
4 <sup>th</sup>	Weekly Average	26.2	60.0	7.7	13.3	0.654

For Jaypee Nigrie Cement Grinding Unit

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Authorized Signatory

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Annexure - II

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

Month - July 2020 - Sep 2020

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLLING EQUIPMENT)	DUST CONC. (mg/Nm <sup>3</sup> )		
		July	August	September
1	Roller Press	3.73	1.79	1.78
2	Cement Mill	1.4	1.4	1.4

Note:- Plant has been run only for 53.75 Hrs during this Quarter.

For Jaypee Nigrie Cement Grinding Unit

  
Authorized Signatory