

## JAYPEE NIGRIE SUPER THERMAL POWER PLANT

**JAIPRAKASH**  
POWER VENTURES LIMITED

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED  
ISO CERTIFIED : 9001: 2015, 14001: 2015 & 18001: 2007



JNSTPP/ENV/2020/04

Date: - 05.01.2021

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

**Subject: - Quarterly Air & Water Quality 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, ETP Treated Water (RO Permeate) Analysis & STP Treated Water Analysis Reports for the Quarter (October 2020 - December 2020) for Jaypee Nigrie Super Thermal Power Plant of M/s. Jaiprakash Power Ventures Ltd.

Thanking You,

Yours Sincerely,  
**For Jaypee Nigrie Super Thermal Power Plant**  
(A Division of Jaiprakash Power Ventures Ltd.)

**Nadim Ahmad Khan**  
V.P - (Chemistry & Environment)

Encl: - As Above

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

- For kind information please.



**Site** : Jaypee Nigrie Super Thermal Power Project, Village & P.O. Nigrie, Tehsil Sarai, Distt. Singrauli (M.P.), Ph. : +91 (7801) 286021-36 Fax : +91 (7801) 286020 Email : jpthermal.sidhi@jalindia.co.in  
**Corp. Office** : JA House, 63, Basant Lok, Vasant Vihar, New Delhi - 110 057 ( India) Ph. : +91 (11) 49828679, 49828642 Fax : +91 (11) 26145389  
**Regd Office** : Complex of Jaypee Nigrie Super Thermal Power Plant, Nigrie Tehsil Sarai, Distt. Singrauli 486669, (Madhya Pradesh) Ph. : +91 (7801) 286021-39 Fax : +91 (7801) 286020  
**Website** : www.jppowerventures.com **CIN** : L40101MP1994PLC042920

**JAYPEE NIGRIE SUPER THERMAL POWER PLANT**  
(A Division of Jaiprakash Power Ventures Limited)


**AMBIENT AIR QUALITY MONITORING REPORT**

**MONTH: October 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	17.3	39.7	5.3	10.0	0.372
2 <sup>nd</sup>	Weekly Average	20.3	42.1	6.0	12.6	0.484
3 <sup>rd</sup>	Weekly Average	24.8	50.8	5.2	13.1	0.419
4 <sup>th</sup>	Weekly Average	23.3	51.1	6.8	12.8	0.411
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	21.9	49.4	7.9	14.1	0.556
2 <sup>nd</sup>	Weekly Average	24.1	50.7	6.9	13.8	0.483
3 <sup>rd</sup>	Weekly Average	31.7	59.3	8.9	15.5	0.631
4 <sup>th</sup>	Weekly Average	32.3	61.8	6.2	13.3	0.572
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	28.7	61.7	8.0	14.6	0.526
2 <sup>nd</sup>	Weekly Average	32.3	65.9	7.7	12.5	0.501
3 <sup>rd</sup>	Weekly Average	33.0	64.5	7.1	16.7	0.499
4 <sup>th</sup>	Weekly Average	36.5	75.8	8.9	15.8	0.609
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	28.8	59.0	7.1	12.8	0.509
2 <sup>nd</sup>	Weekly Average	30.4	59.4	7.6	16.0	0.607
3 <sup>rd</sup>	Weekly Average	33.9	69.0	8.2	15.9	0.700
4 <sup>th</sup>	Weekly Average	34.5	70.0	7.8	12.2	0.588

For Jaypee Nigrie Super Thermal Power Plant

  
Authorized Signatory





**JAYPEE NIGRIE SUPER THERMAL POWER PLANT**  
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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: November 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	22.0	47.7	5.7	12.2	0.431
2 <sup>nd</sup>	Weekly Average	13.6	34.2	5.2	10.4	0.398
3 <sup>rd</sup>	Weekly Average	17.8	40.3	4.9	11.2	0.406
4 <sup>th</sup>	Weekly Average	25.0	50.3	6.8	14.3	0.510
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	29.4	56.5	9.5	15.3	0.546
2 <sup>nd</sup>	Weekly Average	18.6	46.7	7.1	11.4	0.433
3 <sup>rd</sup>	Weekly Average	27.8	60.4	8.4	15.9	0.618
4 <sup>th</sup>	Weekly Average	30.3	58.2	7.9	13.4	0.591
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	31.7	64.5	7.4	13.3	0.530
2 <sup>nd</sup>	Weekly Average	24.0	51.7	6.5	11.9	0.507
3 <sup>rd</sup>	Weekly Average	30.0	61.8	8.2	15.1	0.650
4 <sup>th</sup>	Weekly Average	36.1	72.8	9.0	16.2	0.677
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	34.4	68.7	8.1	17.3	0.694
2 <sup>nd</sup>	Weekly Average	24.8	60.9	6.0	11.2	0.510
3 <sup>rd</sup>	Weekly Average	31.3	66.4	7.0	14.6	0.594
4 <sup>th</sup>	Weekly Average	33.2	69.6	8.6	15.4	0.604

For Jaypee Nigrie Super Thermal Power Plant

*U. Singh*  
Authorized Signatory

*U. Singh*

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**AMBIENT AIR QUALITY MONITORING REPORT**

**MONTH: December 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	23.2	49.8	4.1	12.1	0.391
2 <sup>nd</sup>	Weekly Average	14.5	33.3	4.4	10.5	0.384
3 <sup>rd</sup>	Weekly Average	21.9	50.3	5.5	11.6	0.478
4 <sup>th</sup>	Weekly Average	20.7	44.1	6.3	12.7	0.434
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	33.0	64.3	9.3	14.6	0.629
2 <sup>nd</sup>	Weekly Average	28.4	60.5	10.9	12.5	0.499
3 <sup>rd</sup>	Weekly Average	30.8	65.0	11.5	15.2	0.596
4 <sup>th</sup>	Weekly Average	27.0	50.0	7.1	11.9	0.553
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	29.1	71.1	5.6	13.5	0.582
2 <sup>nd</sup>	Weekly Average	23.7	56.9	7.5	14.5	0.600
3 <sup>rd</sup>	Weekly Average	32.1	63.4	8.4	15.1	0.674
4 <sup>th</sup>	Weekly Average	26.9	59.6	7.2	14.8	0.496
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	35.4	77.4	10.4	17.5	0.784
2 <sup>nd</sup>	Weekly Average	26.3	58.3	7.1	13.3	0.618
3 <sup>rd</sup>	Weekly Average	33.4	70.5	8.1	15.7	0.638
4 <sup>th</sup>	Weekly Average	34.8	69.1	9.8	14.3	0.599

For Jaypee Nigrie Super Thermal Power Plant

*[Signature]*

Authorized Signatory

*[Signature]*



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

Annexure - II

Month - October 2020 to December 2020

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLLING EQUIPMENT)	DUST CONC. (mg/Nm <sup>3</sup> )		
		Oct-20	Nov-20	Dec-20
1	Unit - I (1X660 MW) - ESP	45.93	42.48	48.82
2	Unit - II (1X660 MW) - ESP	45.05	44.84	46.88

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Annexure - III

QUATERLY ETP TREATED WATER (RO PERMEATE) ANALYSIS REPORT

Period: October 2020 to December 2020

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value		
			Oct-20	Nov-20	Dec-20
1	pH	5.5 - 9.0	7.33	7.57	7.74
2	SS (mg/l)	100	NIL	NIL	NIL
3	BOD (mg/l) 3rd days at 27°C	30	NIL	NIL	NIL
4	COD (mg/l)	250	3.96	4.60	3.58
5	O & G (mg/l)	10	NIL	NIL	NIL
6	TDS (mg/l)	2100	11.8	13.1	10.6
7	Chlorides (mg/l)	1000	2.91	2.58	1.99

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Annexure - IIIA

QUATERLY STP TREATED WATER ANALYSIS REPORT

Period: October 2020 - December 2020

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 1000 KLD)			Observed value (STP - 100 KLD)		
			Oct-20	Nov-20	Dec-20	Oct-20	Nov-20	Dec-20
1	pH	6.5 - 9.0	7.15	7.42	7.33	7.41	7.63	7.85
2	S.S (mg/l)	100	15.2	14.7	19.2	7.8	6.4	9.0
3	BOD (mg/l) 3rd days at 27°C	30	14.0	11.0	15.0	4.0	5.6	8.8
4	COD (mg/l)	250	98.7	91.6	96.4	40.8	52.4	50.8
5	O & G (mg/l)	10	1.93	2.12	2.32	1.46	1.21	1.77

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