

## JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

ISO CERTIFIED : 9001:2015, 14001:2015 & 45001:2018



QUALITY

ENVIRONMENT

HEALTH & SAFETY

**JAIPRAKASH**  
POWER VENTURES LIMITED

JNSTPP/ENV/2023-24/03

Date - 15.01.2024

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) Act 1981 & 1974 respectively.**


Dear Sir,

Please find enclosed herewith Ambient Air Quality, Stack Emission Monitoring, ETP Treated Water (RO Permeate) & STP Treated Water Analysis Reports for the **Quarter (Oct, 2023 -Dec, 2023)** for Jaypee Nigrie Super Thermal Power Plant (A Division of Jaiprakash Power Ventures Ltd.)

Thanking You,

Yours Sincerely,

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

  
**Vinod Sharma**  
(Unit Head)

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 Plant, 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

## Annexure - I


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

**AMBIENT AIR QUALITY MONITORING REPORT**

**MONTH: October 2023**

LOCATION : Near STP -(Colony Area)						
Name of Week	Particulars	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	24.7	48.7	6.7	12.6	0.45
2 <sup>nd</sup>	Weekly Average	25.9	51.0	7.1	12.7	0.48
3 <sup>rd</sup>	Weekly Average	24.8	48.3	6.7	12.7	0.46
4 <sup>th</sup>	Weekly Average	28.4	57.1	7.9	13.8	0.52
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	26.3	52.2	7.0	13.9	0.56
2 <sup>nd</sup>	Weekly Average	28.0	55.4	7.6	13.8	0.58
3 <sup>rd</sup>	Weekly Average	26.5	52.2	7.1	13.8	0.56
4 <sup>th</sup>	Weekly Average	30.6	61.4	8.3	15.2	0.63
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	25.7	50.5	6.7	13.2	0.54
2 <sup>nd</sup>	Weekly Average	27.5	54.6	7.3	13.8	0.57
3 <sup>rd</sup>	Weekly Average	27.6	55.2	7.3	13.9	0.57
4 <sup>th</sup>	Weekly Average	29.8	60.3	8.3	15.3	0.62
LOCATION : Near Fuel Storage Tank						
Name of Week	Particulars	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )
1 <sup>st</sup>	Weekly Average	26.6	52.9	7.3	14.3	0.56
2 <sup>nd</sup>	Weekly Average	28.4	58.8	8.0	14.9	0.61
3 <sup>rd</sup>	Weekly Average	28.4	56.8	7.9	14.8	0.59
4 <sup>th</sup>	Weekly Average	31.3	63.1	8.7	16.0	0.64

For Jaypee Nigrie Super Thermal Power Plant

  
 15/10/24  
 Authorized Signatory



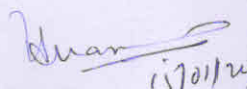
**JAYPEE NIGRIE SUPER THERMAL POWER PLANT**  
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**AMBIENT AIR QUALITY MONITORING REPORT**

**MONTH: November 2023**

LOCATION : Near STP - (Colony Area)						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	26.1	51.6	7.3	13.0	0.49
2 <sup>nd</sup>	Weekly Average	26.4	53.4	7.4	13.7	0.48
3 <sup>rd</sup>	Weekly Average	24.3	48.7	6.7	12.7	0.47
4 <sup>th</sup>	Weekly Average	27.9	55.3	7.7	13.8	0.51
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	27.7	53.8	7.5	14.2	0.58
2 <sup>nd</sup>	Weekly Average	26.3	52.5	7.2	13.8	0.56
3 <sup>rd</sup>	Weekly Average	31.3	62.8	8.6	15.2	0.65
4 <sup>th</sup>	Weekly Average	26.4	52.5	7.0	13.4	0.57
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	27.3	55.1	7.6	14.3	0.56
2 <sup>nd</sup>	Weekly Average	31.3	62.7	8.6	15.5	0.66
3 <sup>rd</sup>	Weekly Average	25.8	51.0	6.9	13.4	0.59
4 <sup>th</sup>	Weekly Average	28.0	56.0	7.7	14.3	0.60
LOCATION : Near Fuel Storage Tank						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	26.8	54.7	7.6	14.6	0.58
2 <sup>nd</sup>	Weekly Average	29.7	62.0	8.4	15.8	0.61
3 <sup>rd</sup>	Weekly Average	32.2	65.0	8.9	16.4	0.68
4 <sup>th</sup>	Weekly Average	27.0	52.8	7.6	14.1	0.61

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

**MONTH: December 2023**

LOCATION : Near STP -(Colony Area)						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	25.2	48.9	6.7	12.7	0.48
2 <sup>nd</sup>	Weekly Average	28.5	57.7	8.1	14.0	0.56
3 <sup>rd</sup>	Weekly Average	27.2	54.5	7.5	13.6	0.54
4 <sup>th</sup>	Weekly Average	29.0	57.5	8.1	14.2	0.56
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	25.4	50.7	6.9	13.2	0.54
2 <sup>nd</sup>	Weekly Average	27.0	54.1	7.5	13.9	0.59
3 <sup>rd</sup>	Weekly Average	30.0	60.1	8.2	14.7	0.64
4 <sup>th</sup>	Weekly Average	31.0	61.1	8.4	15.1	0.65
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	28.1	55.9	6.9	13.3	0.57
2 <sup>nd</sup>	Weekly Average	29.5	59.1	8.3	14.9	0.63
3 <sup>rd</sup>	Weekly Average	28.9	58.7	7.8	14.4	0.61
4 <sup>th</sup>	Weekly Average	31.1	60.9	8.5	15.2	0.66
LOCATION : Near Fuel Storage Tank						
Name of Week	Particulars	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	PM <sub>10</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )
1 <sup>st</sup>	Weekly Average	29.9	60.3	7.7	14.1	0.58
2 <sup>nd</sup>	Weekly Average	29.3	59.5	8.3	15.8	0.62
3 <sup>rd</sup>	Weekly Average	29.2	59.0	8.3	15.1	0.64
4 <sup>th</sup>	Weekly Average	31.9	63.0	8.5	16.2	0.68

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

Period - October 2023 to December 2023

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLLING EQUIPMENT)	AVG. DUST CONC. (mg/Nm <sup>3</sup> )		
		Oct-23	Nov-23	Dec-23
1	Unit - I (1X660 MW) - ESP	40.47	42.61	40.09
2	Unit - II (1X660 MW) - ESP	39.35	40.62	40.65

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15/01/24  
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**JAYPEE NIGRIE SUPER THERMAL POWER PLANT**  
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**ETP TREATED WATER ANALYSIS REPORT**

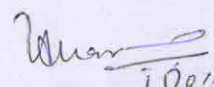
Period : October - 2023 to December - 2023

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value		
			Oct-23	Nov-23	Dec-23
1	pH (at 25°C Temperature)	5.5 - 9.0	7.04	7.01	6.98
2	TSS (mg/l)	100	*BLQ(**LOQ-1.0)	*BLQ(**LOQ-1.0)	*BLQ(**LOQ-1.0)
3	BOD (mg/l) 3rd days at 27°C	30	*BLQ(**LOQ-2.0)	*BLQ(**LOQ-2.0)	*BLQ(**LOQ-2.0)
4	COD (mg/l)	250	10.26	13.44	11.52
5	O & G (mg/l)	10	*BLQ(**LOQ-0.4)	*BLQ(**LOQ-0.4)	*BLQ(**LOQ-0.4)
6	TDS (mg/l)	2100	13.6	12.9	13.8
7	Chlorides (mg/l)	1000	2.18	2.40	2.78

\*BLQ - Below Limit of Quantification

\*\*LOQ - Limit of Quantification

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 15/01/24  
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Annexure - IIIA

STP TREATED WATER ANALYSIS REPORT

Period : October - 2023 to December - 2023

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
			Oct-23	Nov-23	Dec-23	Oct-23	Nov-23	Dec-23
1	pH (at 25°C Temperature)	6.5 - 9.0	7.21	7.11	7.15	7.42	7.23	7.28
2	T.S.S (mg/l)	100	16.0	17.0	19.0	23.0	21.0	24.0
3	BOD (mg/l) 3 <sup>rd</sup> days at 27°C	30	12.0	15.0	14.0	15.0	18.0	16.0
4	COD (mg/l)	250	69.1	79.5	75.6	92.2	97.2	94.4
5	O & G (mg/l)	10	1.50	1.20	1.28	2.35	2.10	2.16
6	Fecal Coliform (MPN/100ml)	1000.0	30.0	21.0	23.0	50.0	40.0	35.0

For Jaypee Nigrie Super Thermal Power Plant

  
15/1/24  
Authorized Signatory