#### 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** 

JNSTPP/ENV/2021/01

Date-05.04.2021

JAIPRAKA

POWER VENTURES LIMITED

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 Monitoring, ETP Treated Water (RO Permeate) & STP Treated Water Analysis Reports for the Quarter (January 2021- March 2021) for JaypeeNigrie Super Thermal Power Plant of M/s. Jaiprakash Power Ventures Ltd.

Thanking You,

Yours Sincerely,

For JaypeeNigrie Super Thermal Power Plant

(A Division of Jaiprakash Power Ventures Ltd.)

Vinod Sharma Sr. President

Allow

Encl: - As Above

CC. Regional Officer

M.P. Pollution Control Board,

Bhakuar, Naugadh,

District: Singrauli (MP) - 486669

: 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

- For kind information please.

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: January 2021

LOCATION: Near STP -(Colony Area) PM2.5 PM10 SO<sub>2</sub> NO<sub>2</sub> CO Name of Week **Particulars** (µg/m3) (µg/m3) (µg/m3)  $(\mu g/m3)$ (mg/m3) Weekly Average 15.6 47.6 5.0 10.1 0.404 2nd Weekly Average 16.8 37.1 4.1 11.3 0.338 3rd Weekly Average 17.8 41.0 4.8 9.9 0.4474th Weekly Average 12.9 34.5 3.7 10.4 0.322 LOCATION: Near H2 Gas Cylinder Shed PM2.5 PM10 SO<sub>2</sub> NO2 CO Name of Week **Particulars** (µg/m3) (µg/m3) (µg/m3)  $(\mu g/m3)$ (mg/m3)1st Weekly Average 28.7 55.6 8.4 12.9 0.565 2nd Weekly Average 29.9 63.4 8.0 14.6 0.523 3rd Weekly Average 19.6 50.6 5.8 11.9 0.444 4th Weekly Average 24.1 49.7 6.2 11.5 0.542 LOCATION: Near Watch Tower 22 (Cement Grinding Unit) PM2.5 PM10 SO<sub>2</sub> NO<sub>2</sub> CO Name of Week **Particulars** (µg/m3)  $(\mu g/m3)$  $(\mu g/m3)$ (µg/m3) (mg/m3) 1st Weekly Average 31.7 69.7 7.0 13.6 0.610 2nd Weekly Average 29.2 60.4 7.9 16.1 0.554 3rd Weekly Average 27.0 54.4 5.7 12.6 0.501 4th Weekly Average 31.1 62.7 6.2 14.4 0.436 LOCATION: Near Fuel Storage Tank PM10 PM2.5 SO<sub>2</sub> NO2 CO Name of Week **Particulars** (µg/m3) (µg/m3)  $(\mu g/m3)$  $(\mu g/m3)$ (mg/m3) 7 st Weekly Average 35.2 72.7 8.9 16.0 0.698 2nd Weekly Average 27.8 57.9 7.8 14.4 0.614 3rd Weekly Average 26.8 58.7 6.0 13.8 0.517

29.7

56.8

4th

Weekly Average

For Jaypee Nigrie Super Thermal Power Plant

11.8

7.4

Authorized Signatory

0.524

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

#### AMBIENT AIR QUALITY MONITORING REPORT

MONTH: February 2021

	LOCA	TION: Near	STP - (Colo	ny Area)		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	19.6	46.6	7.1	12.0	0.367
2 <sup>nd</sup>	Weekly Average	20.9	43.0	6.3	11.2	0.449
3rd	Weekly Average	17.6	44.3	6.0	9.2	0.307
4 <sup>th</sup>	Weekly Average	17.2	36.7	3.3	10.9	0.350
	LOCAT	ION : Near I	H2 Gas Cylin	nder Shed		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	26.0	55.8	7.7	11.3	0.469
2 <sup>nd</sup>	Weekly Average	31.9	58.6	9.5	16.2	0.489
3rd Weekly Average		19.6	50.6	5.8	11.9	0.444
4 <sup>th</sup>	Weekly Average	18.0	47.6	6.8	12.8	0.488
Name of Week	Particulars	PM2.5 (ug/m3)	PM10 (ug/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m <sup>3</sup> )
100000		(µg/m3)	(μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	(mg/m3)
1 <sup>st</sup>	Weekly Average	28.1	63.0	6.2	13.6	0.520
2nd	Weekly Average	27.9	57.4	8.3	14.5	0.668
3rd	Weekly Average	21.8	49.3	4.8 9.3		0.434
4th	Weekly Average	26.3	56.2	6.9	11.4	0.460
	LOCA	ATION : Nea	r Fuel Stora	ge Tank		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1 <sup>st</sup>	Weekly Average	37.5	73.4	7.9	18.2	0.577
2nd	Weekly Average	33.8	63.5	8.5	15.2	0.583
2632	Weekly Average	29.8	62.2	8.8	13.6	0.558
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For Jaypee Nigrie Super Thermal Power Plant

# JAYPEE NIGRIE SUPER THERMAL POWER PLANT (A Division of Jaiprakash Power Ventures Limited) AMBIENT AIR QUALITY MONITORING REPORT MONTH: March 2021

	LOCA	TION: Near	r STP -(Colo	ony Area)		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (µg/m3)	5O2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3
1st	Weekly Average	20.7	46.8	7.0	11.7	0.429
2 <sup>nd</sup>	Weekly Average	22.5	44.5	6.2	10.7	0.471
3rd	Weekly Average	17.7	39.9	4.3	9.0	0.384
4th	Weekly Average	27.3	61.8	8.6	12.2	0.500
	LOCAT	ION : Near I	H2 Gas Cvli	nder Shed		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	27.8	59.3	5.7	10.7	0.368
2nd	Weekly Average	34.5	61.1	11.2	15.2	0.494
3rd	3rd Weekly Average		52.3	8.9	11.4	0.494
4 <sup>th</sup>	Weekly Average	36.2	69.5	10.0	16.4	0.632
Name of Week	LOCATION : Nea	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (µg/m3)	NO2	СО
1st	TA711 A					
	Weekly Average	30.0	65.4	5.9	(μg/m3)	(mg/m3)
2 <sup>nd</sup>	Weekly Average Weekly Average	30.0 28.8	65.4 58.8	5.9	13.2	(mg/m3) 0.473
2 <sup>nd</sup> 3 <sup>rd</sup>				8.0	13.2 15.1	(mg/m3) 0.473 0.588
	Weekly Average	28.8	58.8		13.2 15.1 11.2	(mg/m3) 0.473 0.588 0.500
3rd	Weekly Average Weekly Average Weekly Average	28.8 313 34.0	58.8 57.1 72.5	8.0 6.8 9.4	13.2 15.1	(mg/m3) 0.473 0.588
3rd 4th	Weekly Average Weekly Average Weekly Average	28.8 313 34.0 TION : Near	58.8 57.1 72.5	8.0 6.8 9.4	13.2 15.1 11.2	(mg/m3) 0.473 0.588 0.500
3rd 4th	Weekly Average Weekly Average Weekly Average LOCA Particulars	28.8 313 34.0	58.8 57.1 72.5	8.0 6.8 9.4	13.2 15.1 11.2 15.4 NO2	(mg/m3) 0.473 0.588 0.500 0.555
3rd 4th Name of Week	Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average	28.8 313 34.0 TION: Near	58.8 57.1 72.5 Fuel Storag	8.0 6.8 9.4 ge Tank	13.2 15.1 11.2 15.4 NO2 (µg/m3)	(mg/m3) 0.473 0.588 0.500 0.555
3rd 4th Name of Week 1st 2nd	Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average Weekly Average	28.8 313 34.0 TION: Near PM2.5 (µg/m3)	58.8 57.1 72.5 Fuel Storag PM10 (μg/m3)	8.0 6.8 9.4 ge Tank SO2 (µg/m3)	13.2 15.1 11.2 15.4 NO2 (µg/m3) 17.9	(mg/m3) 0.473 0.588 0.500 0.555 CO (mg/m3) 0.528
3rd 4th Name of Week	Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average	28.8 313 34.0 TION: Near PM2.5 (µg/m3) 40.6	58.8 57.1 72.5 Fuel Storag PM10 (µg/m3) 77.9	8.0 6.8 9.4 ge Tank SO2 (µg/m3) 8.9	13.2 15.1 11.2 15.4 NO2 (µg/m3)	(mg/m3) 0.473 0.588 0.500 0.555

For Jaypee Nigrie Super Thermal Power Plant

#### JAYPEE NIGRIE SUPER THERMAL POWER PLANT

(A Division of Jaiprakash Power Ventures Limited)

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

Annexure - II

Month - January 2021 to March 2021

S.NO.	UNIT STACK ATTACHED WITH PCE	DUST CONC. (mg/Nm3)				
	(POLLUTION CONTROLING EQUIPMENT)	Jan-21	Feb-21	Mar-21		
1	Unit - I (1X660 MW) - ESP	42.65	34.46	39.91		
2	Unit - II (1X660 MW) - ESP	43.80	37.72	42.73		

For Jaypee Nigrie Super Thermal Power Plant

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

Annexure - III

#### QUATERLY ETP TREATED WATER ANALYSIS REPORT

Period: January - 2021 to March - 2021

Sr.	T. U. D.	Norms as per	Observed value				
No.	Testing Parameters	MPPCB	Jan-21	Feb-21	Mar-21		
1	рН	5.5 - 9.0	7.22	7.55	7.60		
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	3.70	3.40	3.92		
5	O & G (mg/l)	10	NIL	NIL	NIL		
6	TDS (mg/l)	2100	12.9	13.6	18.0		
7	Chlorides (mg/l)	1000	2.66	3.12	4.40		

For Jaypee Nigrie Super Thermal Power Plant

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

Annexure - IIIA

#### QUATERLY STP TREATED WATER ANALYSIS REPORT

Period: January - 2021 to March - 2021

		Norms as per	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
Sr. No.	Testing Parameters	МРРСВ	Jan-21	Feb-21	Mar-21	Jan-21	Feb-21	Mar-21
1	рН	6.5 - 9.0	7.48	7.66	7.53	7.39	7.32	7.28
2	S.S (mg/l)	100	7.5	8.7	9.5	14.4	16.2	13.9
3	BOD (mg/l) 3rd days at 27°C	30	7.2	7.9	8.7	10.2	9.4	9.9
4	COD (mg/l)	250	63.8	58.5	60.3	93.3	96.8	99.4
5	O & G (mg/l)	10	1.42	1.24	1.30	1.85	1.52	1.65

For Jaypee Nigrie Super Thermal Power Plant