JAYPEE NIGRIE SUPER THERMAL POWER PLANT

JAIPRAKASH POWER VENTURES LIMITED

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

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









ENVIRONMENT

HEALTH & SAFETY

JNSTPP/ENV/2021/04

Date: 08.01.2022

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 here with Ambient Air Quality, Stack Emission Monitoring, ETP Treated Water (RO Permeate) & STP Treated Water Analysis Reports for the Quarter (October, 2021-December, 2021) for Jaypee Nigrie Super Thermal Power Plant (A Division 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.)

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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.



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

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

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: October 2021

	LOCA	TION: Near	STP (Colony	Area)		
Name of Week	Particulars	PM _{2.5} (μg/m ³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	CO (mg/m ³)
1 st	Weekly Average	18.2	38.5	5.4	11.3	0.311
2 nd	Weekly Average	19.0	41.9	6.6	10.8	0.347
3rd	Weekly Average	15.4	36.8	5.6	11.0	0.275
4 th	Weekly Average	24.7	48.4	6.3	11.9	0.432
	LOCAT	ION - Noor E	H ₂ Gas Cylind	lor Chod		-
		PM _{2.5}	PM ₁₀	SO ₂	NO ₂	СО
Name of Week	Particulars	(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m³)
1 st	Weekly Average	21.8	55.1	7.1	13.6	0.486
2nd	Weekly Average	23.8	57.9	6.9	12.2	0.465
3rd	Weekly Average	22.7	58.5	7.3	13.3	0.441
4 th	Weekly Average	25.4	60.5	7.5	14.1	0.594
		SWISS ON NO			- CA	
	LOCATION : Nea			U	.6.	
Name of Week	Particulars	PM _{2.5} (μg/m ³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
1st	Weekly Average	22.6	53.7	6.2	11.5	0.420
2 nd	Weekly Average	24.8	62.5	6.7	13.0	0.451
3rd	Weekly Average	16.8	45.7	5.6	11.7	0.389
4th	Weekly Average	31.1	63.6	7.5	12.3	0.748
	1004	TION. N.	Tural Crass as as	Teals		
		IION: Ivear	Fuel Storage			
			DM.	co.	NIO.	CO
Name of Week	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m ³)	CO (mg/m³)
Name of Week		PM _{2.5}		A CONTRACTOR OF THE PARTY OF TH		V. Company
ATTENDED ATTENDED	Particulars	PM _{2.5} (μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m ³)
1st	Particulars Weekly Average	PM _{2.5} (μg/m³) 31.4	(μg/m³) 68.6	(μg/m³) 8.0	(μg/m³) 15.2	(mg/m³) 0.636

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: November 2021

	LOCA	ATION: Near	r STP (Colony	y Area)		
Name of Week	Particulars	PM _{2.5} (μg/m ³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
1 st	Weekly Average	24.7	55.0	6.5	11.4	0.426
2nd	Weekly Average	19.4	49.9	6.1	10.1	0.374
3rd	Weekly Average	25.0	53.5	6.8	13.0	0.386
4 th	Weekly Average	27.0	52.2	5.9	12.0	0.402
	LOCAT	TION : Near	H ₂ Gas Cylin	der Shed	_	
Name of Week	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
1 st	Weekly Average	29.6	71.8	8.5	14.6	0.579
2 nd	Weekly Average	22.6	53.7	7.0	11.7	0.526
3rd	Weekly Average	30.0	63.3	7.8	13.7	0.534
4 th	Weekly Average	28.6	61.4	6.0	11.9	0.487
Name of Week	LOCATION : Ne Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
1st	Weekly Average	28.1	65.3	7.9	14.0	0.633
2nd	Weekly Average	26.0	60.5	6.3	13.6	0.592
3rd	Weekly Average	33.9	69.8	7.4	11.7	0.460
4 th	Weekly Average	32.2	64.3	8.2	12.5	0.631
		A AMERICA CONTRACTOR OF THE CO				
	LOCA		r Fuel Storage			
Name of Week	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (µg/m³)	CO (mg/m³)
1 st	Weekly Average	34.3	80.2	9.0	14.5	0.755
	Weekly Average	30.2	63.2	6.9	11.3	0.610
2 nd					The face County	
2 nd 3 rd	Weekly Average	37.8	74.9	8.2	15.7	0.607

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: December 2021

XI		PM _{2.5}	r STP (Colony	SO ₂	NO ₂	СО
Name of Week	Particulars	(µg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m³
1st	Weekly Average	18.7	47.1	5.8	10.9	0.403
2 nd	Weekly Average	24.0	46.7	6.4	12.9	0.439
3rd	Weekly Average	29.6	56.3	7.0	11.7	0.353
4th	Weekly Average	20.7	44.5	5.5	10.3	0.392
	LOCAT	ION : Near	H ₂ Gas Cylin	der Shed		
Name of Week	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
1st	Weekly Average	27.5	59.0	6.7	11.3	0.479
2 nd	Weekly Average	28.7	55.8	7.9	12.6	0.515
3rd	Weekly Average	34.5	67.3	8.3	15.9	0.541
4th	Weekly Average	28.2	60.6	7.0	11.7	0.547
Name of Week	LOCATION : Ne Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (µg/m³)	NO ₂ (μg/m³)	CO (mg/m³
1st	Weekly Average	31.5	66.2	6.9	11.9	0.459
2 nd	Weekly Average	25.4	51.3	5.8	13.2	0.535
3rd	Weekly Average	31.1	62.1	6.0	14.0	0.489
4th	Weekly Average	24.2	51.9	5.3	11.3	0.401
	LOCA	ATION · Nea	r Fuel Storag	e Tank		
		PM _{2.5}	PM ₁₀ (μg/m³)	SO ₂ (µg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
Name of Week	Particulars	$(\mu g/m^3)$				
Name of Week	Particulars Weekly Average	(μg/m³) 30.4	69.0	7.8	12.3	0.610
				7.8 7.6	12.3 13.0	0.610 0.531
1st	Weekly Average	30.4	69.0	5-4-5	TO STATE OF THE PARTY OF THE PA	2 10000

For Jaypee Nigrie Super Thermal Power Plant

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Authorized Signatory

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 - October 2021 to December 2021

	UNIT STACK ATTACHED WITH PCE	PM CONC. (mg/Nm3)				
S.NO.	(POLLUTION CONTROLING EQUIPMENT)	Oct-21	Nov-21	Dec-21		
1	Unit - I (1X660 MW) - ESP	42.87	43.83	46.16		
2	Unit - II (1X660 MW) - ESP	42.26	43.05	44.90		

For Jaypee Nigrie Super Thermal Power Plant

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

Annexure - III

QUARTERLY ETP TREATED WATER (RO PERMEATE) ANALYSIS REPORT

Period: October - 2021 to December - 2021

		Norms as per	Observed value				
Sr. No.	Testing Parameters	МРРСВ	Oct-21	Nov-21	Dec-21		
1	pH (at 25°C Temp.)	5.5 - 9.0	7.62	7.83	7.69		
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	4.04	4.10	3.80		
5	O & G (mg/l)	10	Nil	Nil	Nil		
6	TDS (mg/l)	2100	11.0	12.9	13.6		
7	Chlorides (mg/l)	1000	2.81	2.45	3.57		

For Jaypee Nigrie Super Thermal Power Plant

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

Annexure - IIIA

QUARTERLY STP TREATED WATER ANALYSIS REPORT

Period: October - 2021 to December - 2021

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
			Oct-21	Nov-21	Dec-21	Oct-21	Nov-21	Dec-21
1	pH (at 25°C Temp.)	6.5 - 9.0	7.19	7.16	7.25	7.42	7.37	7.48
2	S.S (mg/l)	100	8.2	7.0	12.0	11.3	14.0	16.0
3	BOD (mg/l) 3rd days at 27°C	30	5.2	6.0	6.8	12.8	17.0	14.0
4	COD (mg/l)	250	32.4	40.9	58.6	105.1	92.1	80.0
5	O & G (mg/l)	10	1.42	1.30	1.47	1.70	2.30	2.10

For Jaypee Nigrie Super Thermal Power Plant