

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/2021/02

Date: 05/07/2021

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) Act 1981 & 1974 respectively.

Dear Sir,

Please find enclosed herewith Ambient Air Quality, Stack Monitoring, ETP Treated Water (RO Permeate) & STP Treated Water Analysis Report for the Quarter (April 2021 - June 2021) 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.



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Tehsil - Sarai, Distt. - Singrauli - 486669 (Madhya Pradesh) Ph: +91 (7801) 286021 - 39, Fax: +91 (7801) 286020 CIN: L40101MP1994PLC042920 Website: www.jppowerventures.com

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: April 2021

	LOCA	TION : Near	SII (COIOII	y Area)		
Name of Week	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m ³)	NO ₂ (μg/m³)	CO (mg/m³
1st	Weekly Average	25.8	53.1	5.8	12.2	0.409
2 nd	Weekly Average	26.2	52.8	6.9	13.0	0.351
3rd	Weekly Average	24.0	47.0	4.9	11.4	0.387
4 th	Weekly Average	27.3	57.3	5.1	10.9	0.459
	LOCAT	ION : Near F	H2 Gas Cylind	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	32.4	64.6	7.1	12.1	0.478
2 nd	Weekly Average	33.3	63.9	9.3	13.8	0.552
3rd	Weekly Average	21.6	57.6	8.6	14.1	0.440
4 th	Weekly Average	30.0	61.7	6.3	10.5	0.603
Name of Week	LOCATION : Nea Particulars	r Watch Tow PM _{2.5} (μg/m³)	PM ₁₀ (µg/m³)	nt Grinding SO ₂ (μg/m³)	Unit) NO ₂ (μg/m³)	CO (mg/m³)
1 st	Weekly Average	32.5	66.0	7.4	12.8	0.488
2 nd	Weekly Average	31.1	65.1	8.6	16.7	0.538
3rd	Weekly Average	25.2	53.7	6.0	12.1	0.477
4 th	Weekly Average	33.4	68.6	8.3	16.9	0.648
		-				0.010
	LOCAT	ΓΙΟΝ : Near	Fuel Storage	Tank		0.010
Name of Week	LOCAT	ΓΙΟΝ : Near PM _{2.5} (μg/m³)	Fuel Storage PM ₁₀ (µg/m³)	SO ₂	NO ₂ (µg/m³)	СО
Name of Week		PM _{2.5}	PM ₁₀		NO ₂ (μg/m³) 15.3	
	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	(μg/m³)	CO (mg/m³)
	Particulars Weekly Average	PM _{2.5} (μg/m³) 37.0	PM ₁₀ (μg/m³) 71.7	SO ₂ (μg/m³) 8.3	(μg/m³) 15.3	CO (mg/m³) 0.603

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

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: May 2021

	LOC	ATION: Nea	ar STP (Color	ny Area)		
Name of Week	Particulars	PM _{2.5} (μg/m³)	PM ₁₀ (μg/m³)	SO ₂ (μg/m³)	NO ₂ (μg/m ³)	CO (mg/m
1st	Weekly Average	19.6	40.7	4.2	12.3	0.347
2 nd	Weekly Average	13.0	33.5	4.6	10.7	0.321
3rd	Weekly Average	14.7	31.3	3.0	9.7	0.286
4 th	Weekly Average	17.0	39.1	5.7	12.6	0.359
	LOCAT	TION : Near 1	H2 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)
Ţst	Weekly Average	29.2	59.8	5.8	11.2	0.511
2 nd	Weekly Average	20.4	43.2	7.6	12.0	0.583
3rd	Weekly Average	23.6	47.9	6.2	12.4	0.394
4 th	Weekly Average	20.8	49.5	7.5	11.4	0.521
Name of Week	LOCATION : Nea	PM _{2.5} (µg/m³)	PM ₁₀	SO ₂	Jnit) NO₂	
1st		(mg/m [*])	$(\mu g/m^3)$	(µg/m³)		CO (mg/m³)
Tac	Weekly Average	22.9	(μg/m³) 52.2	(μg/m³) 8.0	(μg/m³)	(mg/m³)
2 nd	Weekly Average Weekly Average			The second second		(mg/m³) 0.542
		22.9	52.2	8.0	(μg/m³) 15.3	(mg/m³) 0.542 0.559
2 nd	Weekly Average	22.9 20.4	52.2 42.1	8.0 6.2	(μg/m³) 15.3 11.7	(mg/m³) 0.542
2nd 3rd	Weekly Average Weekly Average Weekly Average	22.9 20.4 16.1 21.9	52.2 42.1 37.4 45.4	8.0 6.2 4.7 9.0	(μg/m³) 15.3 11.7 10.6	(mg/m³) 0.542 0.559 0.460
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average LOCA	22.9 20.4 16.1 21.9 TION: Near	52.2 42.1 37.4 45.4 Fuel Storage	8.0 6.2 4.7 9.0	(μg/m³) 15.3 11.7 10.6 13.5	(mg/m³) 0.542 0.559 0.460 0.481
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average	22.9 20.4 16.1 21.9	52.2 42.1 37.4 45.4 Fuel Storage PM ₁₀	8.0 6.2 4.7 9.0 Tank SO ₂	(μg/m³) 15.3 11.7 10.6 13.5	(mg/m³) 0.542 0.559 0.460 0.481
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average LOCA	22.9 20.4 16.1 21.9 TION : Near PM _{2.5}	52.2 42.1 37.4 45.4 Fuel Storage	8.0 6.2 4.7 9.0	(μg/m³) 15.3 11.7 10.6 13.5	(mg/m³) 0.542 0.559 0.460 0.481 CO (mg/m³)
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average LOCA Particulars	22.9 20.4 16.1 21.9 TION: Near PM _{2.5} (µg/m³)	52.2 42.1 37.4 45.4 Fuel Storage PM ₁₀ (μg/m³)	8.0 6.2 4.7 9.0 Tank SO ₂ (µg/m³)	(μg/m³) 15.3 11.7 10.6 13.5 NO ₂ (μg/m³) 16.9	(mg/m³) 0.542 0.559 0.460 0.481 CO (mg/m³) 0.697
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average	22.9 20.4 16.1 21.9 TION: Near PM _{2.5} (µg/m³) 31.9	52.2 42.1 37.4 45.4 Fuel Storage PM ₁₀ (µg/m³) 72.0	8.0 6.2 4.7 9.0 Tank SO ₂ (µg/m³) 5.4	(μg/m³) 15.3 11.7 10.6 13.5 NO ₂ (μg/m³)	(mg/m³) 0.542 0.559 0.460 0.481 CO (mg/m³)

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

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: June 2021

	71000	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	16.5	37.2	5.0	12.5	0.421
2nd	Weekly Average	18.5	36.0	4.1	11.3	0.330
3rd	Weekly Average	11.4	27.6	2.6	9.3	0.245
4 th	Weekly Average	11.2	23.4	4.0	8.8	0.297
		OVERNO COM D	-000 table 00ax 80			
	LOCAT	The state of the s	H2 Gas Cylin			
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	21.1	57.6	8.5	13.9	0.399
2 nd	Weekly Average Weekly Average	15.5 16.8	41.8 35.5	6.3 5.7	11.9	0.457 0.414
3rd					12.3	
4 th	Weekly Average	18.4	39.5	6.7	11.8	0.428
	LOCATION: Ne	ar Watch To	wer 22 (Ceme			
Name of Week		PM _{2.5}	PM ₁₀	SO ₂	NIO	
	Particulars	(μg/m³)	(μg/m³)	(μg/m³)	NO ₂ (μg/m³)	CO (mg/m³)
1st	Weekly Average	7117	3.50			
1 st		(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m³)
	Weekly Average	(μg/m³) 32.7	(μg/m³) 72.7	(μg/m³) 8.5	(μg/m³) 16.4	(mg/m³) 0.604
2 nd	Weekly Average Weekly Average	(μg/m³) 32.7 19.2	(μg/m³) 72.7 52.9	(μg/m³) 8.5 7.5	(μg/m³) 16.4 12.9	(mg/m³) 0.604 0.529
2nd 3rd	Weekly Average Weekly Average Weekly Average Weekly Average	(μg/m³) 32.7 19.2 13.5 16.0	(µg/m³) 72.7 52.9 33.1 39.2	(μg/m³) 8.5 7.5 5.9 6.7	(µg/m³) 16.4 12.9 10.8	(mg/m³) 0.604 0.529 0.346
2nd 3rd	Weekly Average Weekly Average Weekly Average Weekly Average	(μg/m³) 32.7 19.2 13.5 16.0 ATION : Nea	(µg/m³) 72.7 52.9 33.1 39.2 r Fuel Storag	(μg/m³) 8.5 7.5 5.9 6.7	(µg/m³) 16.4 12.9 10.8 12.0	(mg/m³) 0.604 0.529 0.346 0.399
2nd 3rd	Weekly Average Weekly Average Weekly Average Weekly Average	(μg/m³) 32.7 19.2 13.5 16.0	(µg/m³) 72.7 52.9 33.1 39.2	(μg/m³) 8.5 7.5 5.9 6.7	(µg/m³) 16.4 12.9 10.8	(mg/m³) 0.604 0.529 0.346 0.399
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average Weekly Average LOCA	(μg/m³) 32.7 19.2 13.5 16.0 ATION : Nea	(µg/m³) 72.7 52.9 33.1 39.2 r Fuel Storag PM ₁₀	(μg/m³) 8.5 7.5 5.9 6.7 e Tank SO ₂	(µg/m³) 16.4 12.9 10.8 12.0	(mg/m³) 0.604 0.529 0.346 0.399
2nd 3rd 4th	Weekly Average Weekly Average Weekly Average Weekly Average LOCA Particulars	(μg/m³) 32.7 19.2 13.5 16.0 ATION : Nea PM ₂₅ (μg/m³)	(µg/m³) 72.7 52.9 33.1 39.2 r Fuel Storag PM ₁₀ (µg/m³)	(μg/m³) 8.5 7.5 5.9 6.7 e Tank SO ₂ (μg/m³)	(μg/m³) 16.4 12.9 10.8 12.0 NO ₂ (μg/m³)	(mg/m³) 0.604 0.529 0.346 0.399 CO (mg/m³)
2nd 3rd 4th Name of Week	Weekly Average Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average	(μg/m³) 32.7 19.2 13.5 16.0 ATION : Nea PM ₂₅ (μg/m³) 32.1	(µg/m³) 72.7 52.9 33.1 39.2 r Fuel Storag PM ₁₀ (µg/m³) 72.8	(μg/m³) 8.5 7.5 5.9 6.7 e Tank SO ₂ (μg/m³) 7.6	(μg/m³) 16.4 12.9 10.8 12.0 NO ₂ (μg/m³) 15.0	(mg/m³) 0.604 0.529 0.346 0.399 CO (mg/m³) 0.598

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

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 - April 2021 to June 2021

	UNIT STACK ATTACHED WITH PCE	DUST CONC. (mg/Nm3)				
s.no.	(POLLUTION CONTROLING EQUIPMENT)	Apr-21	May-21	Jun-21		
1	Unit - I (1X660 MW) - ESP	47.02	47.55	41.96		
2	Unit - II (1X660 MW) - ESP	46.87	47.88	47.47		

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

Annexure - III

QUATERLY ETP TREATED WATER (RO PERMEATE) ANALYSIS REPORT

Period: April 2021 to June 2021

		Norms as per	Observed value				
Sr. No.	Testing Parameters	MPPCB	Apr-21	May-21	Jun-21		
1	pH	5.5 - 9.0	7.86	6.93	7.78		
2	Suspended Solids (mg/l)	100	NIL	NIL	NIL		
3	BOD (mg/l) 3rd days at 27°C	30	NIL	NIL	1.0		
4	COD (mg/l)	250	8.00	5.60	12.00		
5	O & G (mg/l)	10	NIL	NIL	NIL		
6	TDS (mg/l)	2100	14.2	14.4	15.2		
7	Chlorides (mg/l)	1000	4.96	4.37	5.96		

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

Annexure - IIIA

QUATERLY STP TREATED WATER ANALYSIS REPORT

Period: April - 2021 to June - 2021

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
			Apr-21	May-21	Jun-21	Apr-21	May-21	Jun-21
1	рН	6.5 - 9.0	7.15	7.41	7.78	7.08	7.55	7.41
2	Suspended Solid (mg/l)	100	13.0	14.0	17.0	24.0	16.0	20.0
3	BOD (mg/l) 3rd days at 27°C	30	9.0	5.0	9.0	16.0	12.0	19.0
4	COD (mg/l)	250	72.0	80.0	88.0	104.0	112.0	160.0
5	O & G (mg/l)	10	1.60	1.80	2.16	2.40	2.00	2.44

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