JAYPEE NIGRIE SUPER THERMAL POWER PLANT

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







QUALITY

ENVIRONMENT

HEALTH & SAFETY

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

Regional Officer

M.P. Pollution Control Board, Bhakuar, Naugadh, District: Singrauli (MP) - 486669 For kind information please.



: 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

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: October 2020

	LOCA'	ΓΙΟΝ : Near	STP - (Colon	y Area)		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	17.3 20.3 24.8	39.7 42.1 50.8	5.3	10.0 12.6 13.1	0.372 0.484 0.419
2 nd	Weekly Average			6.0 5.2		
3rd	Weekly Average					
4 th	Weekly Average	23.3	51.1	6.8	12.8	0.411
	LOCAT	ION : Near I	12 Gas Cylin	der Shed		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (µg/m3)	NO2 (μg/m3)	CO (mg/m3)
1 st	Weekly Average	21.9	49.4	7.9	14.1	0.556
2 nd	Weekly Average	24.1	50.7	6.9	13.8	0.483
3rd	Weekly Average	31.7	59.3	8.9	15.5	0.631
4th	Weekly Average	32.3	61.8	6.2	13.3	0.572
Name of Week	LOCATION : Ne Particulars	PM2.5 (µg/m3)	PM10 (μg/m3)	SO2 (µg/m3)	NO2 (μg/m3)	CO (mg/m3
1 st	Weekly Average	28.7				(me/mo
	Treetily Tiverage	20.7	61.7	8.0	14.6	0.526
2 nd	Weekly Average	32.3	65.9	7.7	14.6 12.5	
2nd 3rd			5000	100000 200000		0.526
	Weekly Average	32.3	65.9	7.7	12.5	0.526 0.501
3rd	Weekly Average Weekly Average Weekly Average	32.3 33.0 36.5	65.9 64.5	7.7 7.1 8.9	12.5 16.7	0.526 0.501 0.499
3rd	Weekly Average Weekly Average Weekly Average	32.3 33.0 36.5	65.9 64.5 75.8	7.7 7.1 8.9	12.5 16.7	0.526 0.501 0.499
3rd 4th	Weekly Average Weekly Average Weekly Average LOCA	32.3 33.0 36.5 FION : Near PM2.5	65.9 64.5 75.8 Fuel Oil Stora	7.7 7.1 8.9 age Tank SO2	12.5 16.7 15.8 NO2	0.526 0.501 0.499 0.609
3rd 4th	Weekly Average Weekly Average Weekly Average LOCAT	32.3 33.0 36.5 FION: Near PM2.5 (µg/m3)	65.9 64.5 75.8 Fuel Oil Stora PM10 (µg/m3)	7.7 7.1 8.9 age Tank SO2 (µg/m3)	12.5 16.7 15.8 NO2 (µg/m3)	0.526 0.501 0.499 0.609
3rd 4th Name of Week	Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average	32.3 33.0 36.5 FION: Near PM2.5 (µg/m3) 28.8	65.9 64.5 75.8 Fuel Oil Store PM10 (µg/m3) 59.0	7.7 7.1 8.9 age Tank SO2 (µg/m3) 7.1	12.5 16.7 15.8 NO2 (µg/m3) 12.8	0.526 0.501 0.499 0.609

For Jaypee Nigrie Super Thermal Power Plant

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: November 2020

	LOCA'	TION: Near	STP -(Colony	y Area)		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	22.0	47.7	5.7	12.2	0.431
2 nd	Weekly Average	13.6	34.2 40.3	5.2 4.9	10.4 11.2	0.398
3rd	Weekly Average	17.8				
4 th	Weekly Average	25.0	50.3	6.8	14.3	0.510
	LOCAT	ION : Near I	12 Gas Cylin	der Shed		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1 st	Weekly Average	29.4	56.5	9.5	15.3	0.546
2 nd	Weekly Average	18.6	46.7	7.1	11.4	0.433
3rd	Weekly Average	27.8	60.4	8.4	15.9	0.618
4 th	Weekly Average	30.3	58.2	7.9	13,4	0.591
Name of Week	LOCATION : Ne Particulars	ar Watch To PM2.5 (µg/m3)	Wer 22 (Ceme PM10 (μg/m3)	SO2 (µg/m3)	Unit) NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	31.7	64.5	7.4	13.3	0.530
2nd	Weekly Average	24.0	51.7	6.5	11.9	0.507
3rd	Weekly Average	30.0	61.8	8.2	15.1	0.650
4 th	Weekly Average	36.1	72.8	9.0	16.2	0.677
	LOCAT	ΓΙΟΝ : Near	Fuel Oil Stora	age Tank		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (µg/m3)	CO (mg/m3
1 st	Weekly Average	34.4	68.7	8.1	17.3	0.694
2 nd	Weekly Average	24.8	60.9	6.0	11.2	0.510
3rd	Weekly Average	31.3	66.4	7.0	14.6	0.594
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For Jaypee Nigrie Super Thermal Power Plant

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: December 2020

Name of Week	Particulars	PM2.5	STP -(Colony PM10	SO2	NO2	CO
Name of Week		(µg/m3)	(μg/m3)	(μg/m3)	(µg/m3)	(mg/m3)
1st	Weekly Average	23.2	49.8	4.1	12.1	0.391
2 nd	Weekly Average	14.5	33.3 50.3	4.4 5.5	10.5 11.6	0.384 0.478
3rd	Weekly Average	21.9				
4 th	Weekly Average	20.7	44.1	6.3	12.7	0.434
	LOCAT	The second secon	12 Gas Cylin			
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (µg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1 st	Weekly Average	33.0	64.3	9.3	14.6	0.629
2nd	Weekly Average	28.4	60.5	10.9	12.5	0.499
3rd	Weekly Average	30.8	65.0	11.5	15.2	0.596
4th	Weekly Average	27.0	50.0	7.1	11.9	0.553
		W/A W 55		7. 22. 71. 22.0		
	LOCATION : Ne		wer 22 (Ceme	ent Grinding	Unit)	
					CVDRDU	
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
Name of Week	Particulars Weekly Average			574/5074		
A CONTRACTOR OF THE SEC.	10.000000000000000000000000000000000000	(µg/m3)	(µg/m3)	(μg/m3)	(µg/m3)	(mg/m3)
1st	Weekly Average	(µg/m3) 29.1	(μg/m3) 71.1	(μg/m3) 5.6	(µg/m3) 13.5	(mg/m3) 0.582
1 st 2 nd	Weekly Average Weekly Average	(μg/m3) 29.1 23.7	(μg/m3) 71.1 56.9	(μg/m3) 5.6 7.5	(μg/m3) 13.5 14.5	(mg/m3) 0.582 0.600
1 st 2 nd 3 rd	Weekly Average Weekly Average Weekly Average	(μg/m3) 29.1 23.7 32.1	(µg/m3) 71.1 56.9 63.4	(μg/m3) 5.6 7.5 8.4	(μg/m3) 13.5 14.5 15.1	(mg/m3) 0.582 0.600 0.674
1 st 2 nd 3 rd	Weekly Average Weekly Average Weekly Average Weekly Average	(µg/m3) 29.1 23.7 32.1 26.9	(µg/m3) 71.1 56.9 63.4 59.6 Fuel Oil Stor	(μg/m3) 5.6 7.5 8.4 7.2 age Tank	(μg/m3) 13.5 14.5 15.1 14.8	(mg/m3) 0.582 0.600 0.674 0.496
1 st 2 nd 3 rd	Weekly Average Weekly Average Weekly Average Weekly Average	(µg/m3) 29.1 23.7 32.1 26.9	(µg/m3) 71.1 56.9 63.4 59.6	(μg/m3) 5.6 7.5 8.4 7.2	(μg/m3) 13.5 14.5 15.1	(mg/m3) 0.582 0.600 0.674 0.496
1st 2nd 3rd 4th	Weekly Average Weekly Average Weekly Average Weekly Average LOCA	(μg/m3) 29.1 23.7 32.1 26.9 FION : Near	(µg/m3) 71.1 56.9 63.4 59.6 Fuel Oil Stor	(μg/m3) 5.6 7.5 8.4 7.2 age Tank SO2	(μg/m3) 13.5 14.5 15.1 14.8	(mg/m3) 0.582 0.600 0.674 0.496
1st 2nd 3rd 4th	Weekly Average Weekly Average Weekly Average Weekly Average LOCAT	(μg/m3) 29.1 23.7 32.1 26.9 ΓΙΟΝ : Near PM2.5 (μg/m3)	(μg/m3) 71.1 56.9 63.4 59.6 Fuel Oil Stor PM10 (μg/m3)	(μg/m3) 5.6 7.5 8.4 7.2 age Tank SO2 (μg/m3)	(μg/m3) 13.5 14.5 15.1 14.8 NO2 (μg/m3)	(mg/m3) 0.582 0.600 0.674 0.496
1st 2nd 3rd 4th Name of Week 1st	Weekly Average Weekly Average Weekly Average Weekly Average LOCAT	(μg/m3) 29.1 23.7 32.1 26.9 FION : Near PM2.5 (μg/m3) 35.4	(µg/m3) 71.1 56.9 63.4 59.6 Fuel Oil Stor PM10 (µg/m3) 77.4	(μg/m3) 5.6 7.5 8.4 7.2 age Tank SO2 (μg/m3) 10.4	(μg/m3) 13.5 14.5 15.1 14.8 NO2 (μg/m3) 17.5	(mg/m3) 0.582 0.600 0.674 0.496 CO (mg/m3) 0.784

For Jaypee Nigrie Super Thermal Power Plant

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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 2020 to December 2020

CNO	UNIT STACK ATTACHED WITH PCE	DUST CONC. (mg/Nm3)				
S.NO.	(POLLUTION CONTROLING EQUIPMENT)	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	Observed value				
		МРРСВ	Oct-20	Nov-20	Dec-20		
1	рН	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 Paran	Tastine Description	Norms as per MPPCB	Observed	value (STP -	1000 KLD)	Observed value (STP - 100 KLD)		
	resting rarameters		Oct-20	Nov-20	Dec-20	Oct-20	Nov-20	Dec-20
1	рН	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

For Jaypee Nigrie Super Thermal Power Plant

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