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/2022-23/03

Date - 11.01.2023

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 (October, 2022-December, 2022) for Jaypee Nigrie Super Thermal Power Plant (A Division of Jaiprakash Power Ventures Ltd.)

Thanking You,

Yours Sincerely,

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

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.



: Jaypee Nigrie Super Thermal Power Plant, Village & P.O.-Nigrie, Tehsil-Sarai, Distt.-Singrauli (M.P.) Site Ph: +91 (7801) 286021 - 36, Fax: +91 (7801) 286020, Email: jpthermal.sidhi@jalindia.co.in

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Regd. Office: Complex of Jaypee Nigrie Super Thermal Power Plant, 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: October - 2022

		PM2.5	STP -(Colon	SO2	NO2	
Name of Week	Particulars	(μg/m3)	(µg/m3)	(μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	19.2	41.5	5.1	11.0	0.52
2 nd	Weekly Average	21.1	43.8	6.0	10.3	0.54
3rd	Weekly Average	24.8	50.2	6.2	13.3	0.54
4 th	Weekly Average	25.0	51.0	6.9	11.7	0.51
	LOCATI	ON : Near H	2 Gas Cylino	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	23.0	46.9	6.5	13.3	0.59
2 nd	Weekly Average	25.1	51.8	7.5	11.9	0.52
3rd	Weekly Average	28.2	56.4	9.4	15.2	0.61
4 th	Weekly Average	24.7	52.5	7.0	11.0	0.55
Name of Week	LOCATION : Nea Particulars	r Watch Tow PM2.5 (µg/m3)	PM10 (µg/m3)	nt Grinding SO2 (μg/m3)	Unit) NO2 (μg/m3)	CO (mg/m3)
1 st	Weekly Average	22.7	46.1	5.6	12.9	
0.1		77.77.7	10.1	0.0	12.9	0.51
2 nd	Weekly Average	23.7	48.4	5.9	10.9	
2 nd 3 rd	and a second of the second of		2000.00	157.115	Parameters 1	0.51
	Weekly Average	23.7	48.4	5.9	10.9	0.51 0.52
3rd	Weekly Average Weekly Average Weekly Average	23.7 29.0	48.4 60.6 60.7	5.9 8.3 7.3	10.9 14.8	0.51 0.52 0.59
3rd	Weekly Average Weekly Average Weekly Average	23.7 29.0 29.7	48.4 60.6 60.7	5.9 8.3 7.3	10.9 14.8	0.51 0.52 0.59 0.53
3rd 4th	Weekly Average Weekly Average Weekly Average LOCA	23.7 29.0 29.7 TION: Near PM2.5	48.4 60.6 60.7 Fuel Storage PM10	5.9 8.3 7.3 Tank SO2	10.9 14.8 14.1	0.51 0.52 0.59 0.53
3rd 4th	Weekly Average Weekly Average Weekly Average LOCA Particulars	23.7 29.0 29.7 TION: Near PM2.5 (µg/m3)	48.4 60.6 60.7 Fuel Storage PM10 (µg/m3)	5.9 8.3 7.3 Tank SO2 (µg/m3)	10.9 14.8 14.1 NO2 (µg/m3)	0.51 0.52 0.59 0.53
3rd 4th Name of Week	Weekly Average Weekly Average Weekly Average LOCA Particulars Weekly Average	23.7 29.0 29.7 TION: Near PM2.5 (µg/m3) 24.8	48.4 60.6 60.7 Fuel Storage PM10 (μg/m3) 52.4	5.9 8.3 7.3 Tank SO2 (µg/m3) 8.4	10.9 14.8 14.1 NO2 (µg/m3) 14.2	0.51 0.52 0.59 0.53 CO (mg/m3) 0.58

For Jaypee Nigrie Super Thermal Power Plant

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: November - 2022

Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3
1st	Weekly Average	21.6	46.2	6.3	12.5	0.53
2 nd	Weekly Average	20.1	45.1	6.0	12.1	0.51
3rd	Weekly Average	22.3	47.1	6.3	12.6	0.56
4th	Weekly Average	23.6	49.7	6.9	13.7	(<0.5)
	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)
1 st	Weekly Average	25.1	51.3	7.0	13.2	0.52
2 nd	Weekly Average	23.0	45.9	6.7	12.7	0.59
3rd	Weekly Average	23.9	48.0	6.9	11.9	0.53
4 th	Weekly Average	25.3	52.2	6.4	11.9	0.55
Name of Week	LOCATION : Ne Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3
1st	Weekly Average	(μg/m3) 25.5	(μg/m3) 50.7	6.4	13.0	(mg/m3 0.52
2nd	Weekly Average	26.8	52.9	6.9	13.4	
4-70				0.2	10.1	0.57
3rd	Weekly Average	31.1	58.8	7.8	146	0.57
3rd 4th	Weekly Average Weekly Average	31.1 27.6	58.8 56.1	7.8 7.1	14.6 13.2	0.57 0.53 0.54
	Weekly Average	27.6	56.1	7.1	100757	0.53
	Weekly Average		56.1	7.1	100757	0.53 0.54
4 th	Weekly Average	27.6 ATION : Nea PM2.5	56.1 r Fuel Storag	7.1 ge Tank	13.2	0.53 0.54
4 th Name of Week	Weekly Average LOCA Particulars	27.6 ATION : Nea PM2.5 (μg/m3)	56.1 r Fuel Storas PM10 (µg/m3)	7.1 ge Tank SO2 (µg/m3)	13.2 NO2 (μg/m3)	0.53 0.54 CO (mg/m3)
4 th Name of Week 1 st	LOCA Particulars Weekly Average	27.6 ATION : Nea PM2.5 (µg/m3) 26.7	56.1 r Fuel Storas PM10 (µg/m3) 52.8	7.1 ge Tank SO2 (µg/m3) 9.0	13.2 NO2 (µg/m3) 15.3	0.53 0.54 CO (mg/m3 0.59

For Jaypee Nigrie Super Thermal Power Plant

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: December - 2022

	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)
1 st	Weekly Average	21.9	46.7	5.9	12.7	0.54
2 nd	Weekly Average	22.3	46.5	6.5	12.6	0.52
3rd	Weekly Average	27.8	51.6	7.5	13.6	0.57
4th	Weekly Average	23.1	46.0	5.8	12.0	0.51
	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)
1 st	Weekly Average	25.4	52.0	7.6	13.0	0.52
2 nd	Weekly Average	24.5	47.5	7.1	13.4	0.63
3rd	Weekly Average	26.9	54.0	8.9	15.1	0.58
4 th	Weekly Average	25.7	52.0	6.0	12.1	0.53
Name of Week	LOCATION : Ne Particulars	ar Watch Tov PM2.5 (µg/m3)	wer 22 (Cem PM10 (μg/m3)	SO2 (µg/m3)	Jnit) NO2 (µg/m3)	CO (mg/m3)
1 st	Weekly Average	26.9	52.6	6.8	13.6	0.52
2 nd	Weekly Average	26.6	53.6	7.5	14.6	0.59
3rd	Weekly Average	31.9	63.9	9.0	15.2	0.53
4 th	Weekly Average	29.9	61.9	8.5	12.3	0.62
	LOCA	ATION : Nea	r Fuel Storas	ge Tank		
Name of Week	Particulars	PM2.5 (μg/m3)	PM10 (μg/m3)	SO2 (μg/m3)	NO2 (μg/m3)	CO (mg/m3)
1st	Weekly Average	26.6	52.0	8.3	14.0	0.59
2nd	Weekly Average	24.2	51.4	6.3	11.9	0.52
3rd	Weekly Average	28.9	56.5	8.5	15.7	0.63
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For Jaypee Nigrie Super Thermal Power Plant

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Herman

JAYPEE NIGRIE SUPER THERMAL POWER PLANT

(A Division of Jaiprakash Power Ventures Limited)

QUATERLY REPORT OF PARTICULATE MATTER EMISSION FROM POINT SOURCE (STACK)

Annexure - II

Period - October 2022 to December 2022

	UNIT STACK ATTACHED WITH PCE	AVG. DUST CONC. (mg/Nm3)				
S.NO.	(POLLUTION CONTROLING EQUIPMENT)	Oct-22	Nov-22	Dec-22		
1	Unit - I (1X660 MW) - ESP	38.04	34.77	40.34		
2	Unit - II (1X660 MW) - ESP	39.86	26.39	39.73		

For Jaypee Nigrie Super Thermal Power Plant

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Annexure - III

QUATERLY ETP TREATED (RO - Permeate) WATER ANALYSIS REPORT

Period: October - 2022 to December - 2022

Sr. No.		Norms as per	Observed value				
	Testing Parameters	МРРСВ	Oct-22	Nov-22	Dec-22		
1	pH (at 25°C Temp.)	5.5 - 9.0	7.53	7.41	7.29		
2	SS (mg/l)	100.0	*BLQ(**LOQ-1.0)	*BLQ(**LOQ-1.0)	*BLQ(**LOQ-1.0)		
3	BOD (mg/l) 3rd days at 27°C	30.0	*BLQ(**LOQ-2.0)	*BLQ(**LOQ-2.0)	*BLQ(**LOQ-2.0)		
4	COD (mg/l)	250.0	7.68	6.40	9.60		
5	Oil & Grease (mg/l)	10.0	*BLQ(**LOQ-0.4)	*BLQ(**LOQ-0.4)	*BLQ(**LOQ-0.4)		
6	TDS (mg/l)	2100.0	12.0	15.0	14.4		
7	Chlorides (mg/l)	1000.0	3.18	3.77	2.58		

*BLQ - Below Limit of Quantification

**LOQ - Limit of Quantification

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Annexure - IIIA

QUATERLY STP TREATED WATER ANALYSIS REPORT

Period: October - 2022 to December - 2022

C. N.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
Sr. No.			Oct-22	Nov-22	Dec-22	Oct-22	Nov-22	Dec-22
1	pH (at 25°C Temp.)	6.5 - 9.0	7.22	7.18	7.25	7.35	7.42	7.31
2	S.S (mg/l)	100.0	14.0	22.0	19.0	28.0	35.0	24.0
3	BOD (mg/l) 3rd days at 27°C	30.0	7.0	10.0	8.0	14.0	16.0	13.0
4	COD (mg/l)	250.0	38.4	52.2	46.1	76.8	62.4	72.9
5	Oil & Grease (mg/l)	10.0	1.60	1.80	1.00	1.80	2.40	2.00
6	Fecal Coliform (MPN/100ml)	1000.0	17.0	21.0	14.0	27.0	26.0	30.0

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