

JAYPEE NIGRIE SUPER THERMAL POWER PLANT

A DIVISION OF JAIPRAKASH POWER VENTURES LIMITED

ISO CERTIFIED : 9001: 2015, 14001: 2015 & 18001: 2007



JAIPRAKASH
POWER VENTURES LIMITED

JNSTPP/ENV/2020/03

Date: - 05.10.2020

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 (July 2020 - September 2020)** of 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.)


K.B. Gupta
DGM - (QC & Env)

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 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
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: July 2020

LOCATION : Near STP - (Colony Area)						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	16.3	43.6	5.1	9.0	0.383
2 nd	Weekly Average	16.8	41.2	4.5	11.6	0.394
3 rd	Weekly Average	11.5	25.7	4.8	9.6	0.302
4 th	Weekly Average	10.9	21.7	5.1	10.3	0.219
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	24.3	56.0	8.8	13.8	0.400
2 nd	Weekly Average	23.3	53.0	5.7	15.2	0.627
3 rd	Weekly Average	16.9	30.1	9.3	14.9	0.615
4 th	Weekly Average	13.8	31.3	7.9	13.3	0.512
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	19.5	50.4	8.0	13.9	0.506
2 nd	Weekly Average	23.8	55.1	6.7	11.5	0.617
3 rd	Weekly Average	20.3	38.5	7.2	12.5	0.210
4 th	Weekly Average	19.8	42.3	8.1	13.7	0.344
LOCATION : Near Fuel Oil Storage Tank						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	29.8	62.4	9.5	13.8	0.690
2 nd	Weekly Average	25.3	58.8	7.4	15.5	0.650
3 rd	Weekly Average	18.2	34.5	6.6	14.9	0.404
4 th	Weekly Average	19.1	38.4	6.1	13.7	0.524

For Jaypee Nigrie Super Thermal Power Plant

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: August 2020

LOCATION : Near STP -(Colony Area)						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	13.7	33.6	3.9	10.8	0.331
2 nd	Weekly Average	15.0	38.3	4.8	10.2	0.344
3 rd	Weekly Average	14.9	27.7	6.2	11.0	0.391
4 th	Weekly Average	11.5	23.2	5.9	9.2	0.320
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	15.4	46.0	7.0	13.8	0.373
2 nd	Weekly Average	18.8	48.0	6.6	11.7	0.505
3 rd	Weekly Average	19.7	44.7	7.8	14.2	0.589
4 th	Weekly Average	11.7	27.2	6.2	11.1	0.414
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	14.5	41.3	4.6	10.8	0.457
2 nd	Weekly Average	18.0	35.9	5.8	13.2	0.578
3 rd	Weekly Average	24.1	55.6	8.0	12.2	0.465
4 th	Weekly Average	13.5	36.2	6.5	11.2	0.343
LOCATION : Near Fuel Oil Storage Tank						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	22.3	51.4	8.1	13.3	0.600
2 nd	Weekly Average	20.9	47.1	6.4	12.8	0.582
3 rd	Weekly Average	19.1	49.2	7.0	15.0	0.529
4 th	Weekly Average	15.5	35.7	7.8	14.2	0.692

For Jaypee Nigrie Super Thermal Power Plant

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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: September 2020

LOCATION : Near STP -(Colony Area)						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	16.0	38.6	5.8	10.7	0.403
2 nd	Weekly Average	19.6	33.3	6.5	12.8	0.499
3 rd	Weekly Average	20.5	40.5	6.0	12.3	0.423
4 th	Weekly Average	13.6	38.7	6.4	10.3	0.410
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	16.4	37.2	7.2	12.0	0.508
2 nd	Weekly Average	17.0	33.2	7.9	15.4	0.610
3 rd	Weekly Average	23.6	48.9	8.4	13.4	0.685
4 th	Weekly Average	15.9	42.7	6.2	10.9	0.459
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	18.7	34.2	7.1	14.7	0.440
2 nd	Weekly Average	23.5	53.2	6.4	15.4	0.540
3 rd	Weekly Average	28.7	61.7	6.0	15.2	0.566
4 th	Weekly Average	33.2	76.8	7.8	14.5	0.567
LOCATION : Near Fuel Oil Storage Tank						
Name of Week	Particulars	PM2.5 ($\mu\text{g}/\text{m}^3$)	PM10 ($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
1 st	Weekly Average	25.2	43.7	5.5	12.6	0.554
2 nd	Weekly Average	19.7	39.9	6.5	15.4	0.697
3 rd	Weekly Average	24.5	59.8	7.2	16.3	0.604
4 th	Weekly Average	26.2	60.0	7.7	13.3	0.654

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

Annexure - II

Month - July 2020 to September 2020

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLLING EQUIPMENT)	DUST CONC. (mg/Nm ³)		
		Jul-20	Aug-20	Sep-20
1	Unit - I (1X660 MW) - ESP	36.91	39.62	44.03
2	Unit - II (1X660 MW) - ESP	38.54	44.48	43.20

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Annexure - III

QUARTERLY ETP TREATED WATER (RO PERMEATE) ANALYSIS REPORT

Period : July - 2020 to September - 2020

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value		
			Jul-20	Aug-20	Sep-20
1	pH	5.5 - 9.0	7.66	7.89	7.48
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	3.80	5.33	4.20
5	O & G (mg/l)	10	NIL	NIL	NIL
6	TDS (mg/l)	2100	13.2	13.5	12.6
7	Chlorides (mg/l)	1000	2.64	3.93	3.27

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Annexure - IIIA

QUATERLY STP TREATED WATER ANALYSIS REPORT

Period: July - 2020 to September - 2020

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 1000 KLD)			Observed value (STP - 100 KLD)		
			Jul-20	Aug-20	Sep-20	Jul-20	Aug-20	Sep-20
1	pH	6.5 - 9.0	7.19	7.22	7.02	7.31	7.53	7.24
2	S.S (mg/l)	100	12.0	18.0	13.0	10.0	13.0	9.0
3	BOD (mg/l) 3rd days at 27°C	30	11.3	15.5	10.3	9.2	11.5	7.7
4	COD (mg/l)	250	90.2	106.1	93.7	69.4	86.5	62.4
5	O & G (mg/l)	10	2.22	2.00	2.15	1.32	1.50	1.71

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