

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

JAIPRAKASH
POWER VENTURES LIMITED

JNSTPP/ENV/2021/03

Date - 07.10.2021

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 here with Ambient Air Quality, Stack Emission Monitoring, ETP Treated Water (RO Permeate) & STP Treated Water Analysis Reports for the **Quarter (July, 2021- September, 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.)


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

Annexure - I

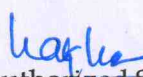
JAYPEE NIGRIE SUPER THERMAL POWER PLANT
(A Division of Jaiprakash Power Ventures Limited)

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: July, 2021

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	20.0	40.7	4.2	11.6	0.401
2 nd	Weekly Average	17.5	34.3	3.4	9.3	0.318
3 rd	Weekly Average	12.2	23.2	2.7	9.0	0.269
4 th	Weekly Average	13.1	27.6	3.9	9.4	0.248
LOCATION : Near H ₂ 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	21.4	44.0	5.2	11.4	0.426
2 nd	Weekly Average	22.5	43.8	5.7	12.2	0.413
3 rd	Weekly Average	15.4	33.1	4.0	10.4	0.372
4 th	Weekly Average	13.3	29.6	4.4	10.7	0.417
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	24.3	52.9	6.6	14.0	0.533
2 nd	Weekly Average	19.3	45.1	5.9	13.6	0.429
3 rd	Weekly Average	15.3	30.3	4.0	10.0	0.406
4 th	Weekly Average	14.5	31.3	5.4	12.5	0.388
LOCATION : Near Fuel 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	28.9	57.7	7.4	14.0	0.553
2 nd	Weekly Average	20.1	43.5	4.1	11.7	0.498
3 rd	Weekly Average	18.0	37.0	6.0	14.0	0.420
4 th	Weekly Average	15.9	31.1	5.0	12.5	0.379

For Jaypee Nigrie Super Thermal Power Plant


 Authorized Signatory

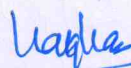
Annexure - I

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

AMBIENT AIR QUALITY MONITORING REPORT**MONTH: August, 2021**

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	11.4	24.6	5.5	9.3	0.285
2 nd	Weekly Average	14.3	26.8	5.6	10.0	0.250
3 rd	Weekly Average	12.3	23.4	6.0	9.0	0.231
4 th	Weekly Average	15.0	32.1	5.6	10.7	0.316
LOCATION : Near H ₂ 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	15.5	34.5	5.4	9.9	0.320
2 nd	Weekly Average	16.9	33.8	5.5	9.6	0.343
3 rd	Weekly Average	12.9	27.1	5.6	11.7	0.328
4 th	Weekly Average	16.0	33.9	5.7	12.7	0.438
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	14.3	28.1	5.9	11.2	0.419
2 nd	Weekly Average	19.4	40.1	5.7	14.5	0.355
3 rd	Weekly Average	13.3	24.8	5.4	10.4	0.316
4 th	Weekly Average	21.2	40.6	5.8	13.8	0.492
LOCATION : Near Fuel 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	17.4	38.6	5.7	11.5	0.492
2 nd	Weekly Average	15.3	29.6	5.5	13.8	0.388
3 rd	Weekly Average	18.5	37.9	5.5	12.3	0.369
4 th	Weekly Average	20.5	41.6	6.0	13.4	0.514

For Jaypee Nigrie Super Thermal Power Plant


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Annexure - I

JAYPEE NIGRIE SUPER THERMAL POWER PLANT
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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: September, 2021

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	18.7	32.2	4.9	11.1	0.321
2 nd	Weekly Average	19.5	39.1	5.3	10.9	0.365
3 rd	Weekly Average	16.2	33.1	5.6	11.8	0.296
4 th	Weekly Average	17.9	36.6	5.2	10.5	0.372
LOCATION : Near H ₂ 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	23.5	43.5	6.0	12.6	0.382
2 nd	Weekly Average	21.3	40.9	6.7	11.2	0.406
3 rd	Weekly Average	24.5	41.6	7.9	13.0	0.398
4 th	Weekly Average	19.4	39.0	5.3	12.4	0.412
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	22.5	47.3	5.4	13.7	0.440
2 nd	Weekly Average	19.8	38.0	5.8	14.0	0.414
3 rd	Weekly Average	26.9	54.3	6.9	11.7	0.460
4 th	Weekly Average	23.6	48.5	6.6	12.5	0.569
LOCATION : Near Fuel 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	26.4	51.2	6.8	13.4	0.500
2 nd	Weekly Average	22.1	43.9	6.0	12.2	0.530
3 rd	Weekly Average	30.3	55.3	7.3	15.2	0.669
4 th	Weekly Average	32.6	61.1	7.1	12.4	0.721

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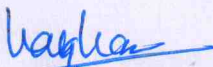
QUARTERLY REPORT OF PARTICULATE MATTER EMISSION FROM POINT SOURCE (STACK)

Annexure - II

Month - July,2021 to September,2021

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLLING EQUIPMENT)	DUST CONC. (mg/Nm ³)		
		Jul-21	Aug-21	Sep-21
1	Unit - I (1X660 MW) - ESP	41.71	43.83	47.14
2	Unit - II (1X660 MW) - ESP	42.22	44.25	41.29

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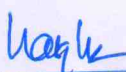
Annexure - III

QUATERLY ETP TREATED WATER (RO PERMEATE) ANALYSIS REPORT

Period : July, 2021 to September, 2021

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value		
			Jul-21	Aug-21	Sep-21
1	pH	5.5 - 9.0	7.54	7.37	7.58
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	8.00	5.60	4.0
5	O & G (mg/l)	10	Nil	Nil	Nil
6	TDS (mg/l)	2100	15.2	13.0	14.2
7	Chlorides (mg/l)	1000	4.46	4.72	2.18

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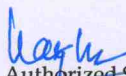
Annexure - IIIA

QUATERLY STP TREATED WATER ANALYSIS REPORT

Period : July, 2021 to September, 2021

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
			Jul-21	Aug-21	Sep-21	Jul-21	Aug-21	Sep-21
1	pH	6.5 - 9.0	7.38	7.14	7.06	7.04	7.31	7.51
2	S.S (mg/l)	100	10.0	9.5	11.0	18.0	14.5	15.0
3	BOD (mg/l) 3rd days at 27°C	30	13.0	5.5	4.0	16.0	11.0	14.0
4	COD (mg/l)	250	64.0	60.0	40.0	145.0	100.0	120.0
5	O & G (mg/l)	10	1.97	1.82	1.35	2.15	2.40	1.95

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