

JAYPEE NIGRIE SUPER THERMAL POWER PLANT

JAI PRAKASH
POWER VENTURES LIMITED

A DIVISION OF JAI PRAKASH POWER VENTURES LIMITED

ISO CERTIFIED : 9001:2015, 14001:2015 & 45001:2018



QUALITY

ENVIRONMENT

HEALTH & SAFETY

JNSTPP/ENV/2022/01

Date-08.04.2022

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 (January, 2022-March, 2022)** for Jaypee Nigrie Super Thermal Power Plant (A Division of 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

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

AMBIENT AIR QUALITY MONITORING REPORT

MONTH: January, 2022

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	14.9	35.6	5.5	10.1	0.308
2 nd	Weekly Average	17.4	40.6	6.6	12.7	0.388
3 rd	Weekly Average	16.8	37.2	5.8	10.8	0.324
4 th	Weekly Average	21.5	44.9	6.9	12.9	0.434
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	21.5	43.4	6.1	10.2	0.429
2 nd	Weekly Average	20.8	41.8	6.8	12.3	0.386
3 rd	Weekly Average	23.1	52.2	7.2	13.1	0.490
4 th	Weekly Average	27.5	60.2	7.4	14.6	0.543
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	20.6	44.9	5.7	11.4	0.380
2 nd	Weekly Average	22.0	43.5	5.6	10.9	0.368
3 rd	Weekly Average	19.3	46.0	6.1	12.9	0.450
4 th	Weekly Average	27.1	56.2	7.0	13.9	0.420
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	24.3	54.6	6.0	12.3	0.505
2 nd	Weekly Average	25.2	52.0	6.5	11.7	0.476
3 rd	Weekly Average	28.9	61.2	7.8	15.3	0.555
4 th	Weekly Average	27.6	56.5	6.2	10.9	0.458

For Jaypee Nigrie Super Thermal Power Plant

Kayla
Authorized Signatory

*Chik
S. Gupta*

Annexure - I

JAYPEE NIGRIE SUPER THERMAL POWER PLANT
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AMBIENT AIR QUALITY MONITORING REPORT

MONTH: February, 2022

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	43.2	5.6	11.7	0.340
2 nd	Weekly Average	17.6	37.2	5.1	10.1	0.329
3 rd	Weekly Average	21.4	45.1	6.4	11.9	0.360
4 th	Weekly Average	24.7	49.6	6.0	12.8	0.372
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	25.4	51.0	7.0	13.6	0.490
2 nd	Weekly Average	20.7	42.1	5.2	11.5	0.499
3 rd	Weekly Average	26.9	53.9	7.1	12.5	0.523
4 th	Weekly Average	29.2	59.4	7.7	13.9	0.533
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	23.1	48.1	6.0	11.9	0.438
2 nd	Weekly Average	21.2	44.7	5.4	12.5	0.383
3 rd	Weekly Average	24.7	50.6	7.0	13.2	0.534
4 th	Weekly Average	29.3	59.9	7.2	14.4	0.477
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	28.4	58.9	6.9	14.3	0.553
2 nd	Weekly Average	22.2	49.5	5.9	10.6	0.445
3 rd	Weekly Average	30.3	63.3	8.0	14.7	0.602
4 th	Weekly Average	32.2	67.3	7.8	13.5	0.569

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: March, 2022

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	21.2	41.9	5.6	9.9	0.324
2 nd	Weekly Average	24.0	49.6	6.3	11.9	0.384
3 rd	Weekly Average	22.8	48.6	6.2	10.7	0.362
4 th	Weekly Average	23.2	47.5	6.5	12.9	0.390
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	26.7	57.4	7.7	12.3	0.520
2 nd	Weekly Average	26.8	62.7	7.5	11.9	0.476
3 rd	Weekly Average	24.2	53.7	6.0	11.2	0.449
4 th	Weekly Average	29.8	62.5	8.9	14.3	0.574
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	25.1	53.2	6.7	11.4	0.390
2 nd	Weekly Average	29.2	63.2	7.6	13.1	0.419
3 rd	Weekly Average	30.5	67.2	8.2	14.1	0.530
4 th	Weekly Average	34.0	72.3	7.9	14.7	0.598
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	28.5	61.2	7.8	14.2	0.540
2 nd	Weekly Average	31.4	69.3	8.1	13.4	0.507
3 rd	Weekly Average	32.3	70.7	8.2	11.7	0.580
4 th	Weekly Average	28.8	61.4	6.7	12.0	0.456

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

Annexure - II

Month - January, 2022 to March, 2022

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLING EQUIPMENT)	DUST CONC. (mg/Nm ³)		
		Jan-22	Feb-22	Mar-22
1	Unit - I (1X660 MW) - ESP	44.46	42.80	41.44
2	Unit - II (1X660 MW) - ESP	41.22	46.74	42.18

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Annexure - III

QUARTERLY ETP TREATED WATER ANALYSIS REPORT

Period : January - 2022 to March - 2022

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value		
			Jan-22	Feb-22	Mar-22
1	pH	5.5 - 9.0	7.37	7.66	7.28
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	3.20	4.00	8.00
5	O & G (mg/l)	10	NIL	NIL	NIL
6	TDS (mg/l)	2100	12.4	14.2	13.6
7	Chlorides (mg/l)	1000	3.18	3.25	4.20

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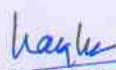
Annexure - IIIA

QUARTERLY STP TREATED WATER ANALYSIS REPORT

Period : January - 2022 to March - 2022

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
			Jan-22	Feb-22	Mar-22	Jan-22	Feb-22	Mar-22
1	pH	6.5 - 9.0	7.33	6.84	7.49	7.54	7.01	7.34
2	S.S (mg/l)	100	17.0	8.0	11.0	13.0	19.0	15.0
3	BOD (mg/l) 3rd days at 27°C	30	7.8	3.0	9.0	11.0	14.0	18.0
4	COD (mg/l)	250	52.4	47.2	65.1	72.6	94.1	120.0
5	O & G (mg/l)	10	1.20	1.30	1.80	1.90	2.20	2.00

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