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/2022/02 **Date-06.10.2022**

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 (July, 2022-September, 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** - For kind information please.
M.P. Pollution Control Board,
Bhakuar, Naugadh,
District: Singrauli (MP) - 486669

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 GROUP

Annexure - I

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

AMBIENT AIR QUALITY MONITORING REPORT **MONTH: July - 2022**

LOCATION : Near STP –(Colony Area)						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	24.0	51.6	5.9	10.4	0.391
2nd	Weekly Average	27.9	54.0	7.0	13.0	0.477
3rd	Weekly Average	24.5	46.1	6.1	10.3	0.373
4th	Weekly Average	19.0	41.2	5.5	9.2	0.305
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	29.8	55.4	8.2	13.8	0.539
2nd	Weekly Average	37.8	58.9	7.6	14.4	0.559
3rd	Weekly Average	26.5	53.2	7.1	11.2	0.475
4th	Weekly Average	27.2	52.5	8.1	12.4	0.441
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	26.9	56.4	7.3	12.8	0.569
2nd	Weekly Average	31.0	67.5	8.7	15.4	0.604
3rd	Weekly Average	29.8	59.2	7.0	12.0	0.444
4th	Weekly Average	26.1	52.0	6.0	11.2	0.436
LOCATION : Near Fuel Storage Tank						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	32.8	63.6	7.7	12.2	0.620
2nd	Weekly Average	40.5	62.0	9.9	16.0	0.682
3rd	Weekly Average	28.2	57.3	6.5	11.8	0.469
4th	Weekly Average	26.5	51.8	7.6	10.7	0.510

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 - 2022**

LOCATION : Near STP – (Colony Area)						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	20.5	43.7	5.5	11.1	BLQ (LOQ-0.50)
2nd	Weekly Average	16.0	41.9	5.9	10.0	0.58
3rd	Weekly Average	15.2	39.5	5.7	10.5	0.55
4th	Weekly Average	16.4	38.2	5.2	11.3	BLQ (LOQ-0.50)
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	23.4	50.2	6.8	11.4	0.53
2nd	Weekly Average	24.0	51.1	6.1	10.4	0.54
3rd	Weekly Average	19.5	43.5	5.7	12.2	BLQ (LOQ-0.50)
4th	Weekly Average	18.4	48.0	6.5	11.6	0.55
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	22.4	50.8	5.5	10.6	0.53
2nd	Weekly Average	20.2	53.0	7.0	13.3	0.61
3rd	Weekly Average	18.0	45.5	6.0	11.5	0.57
4th	Weekly Average	21.5	46.4	6.5	13.1	BLQ (LOQ-0.50)
LOCATION : Near Fuel Storage Tank						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	25.9	55.5	7.0	13.6	0.56
2nd	Weekly Average	22.7	51.7	7.5	11.7	0.57
3rd	Weekly Average	20.8	48.4	5.9	10.8	0.60
4th	Weekly Average	19.5	47.5	7.2	12.3	BLQ (LOQ-0.50)

*BLQ - Below Limit of Quantification, LOQ - Limit of Quantification

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: September - 2022**

LOCATION : Near STP –(Colony 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	43.3	5.4	9.9	BLQ (LOQ-0.50)
2nd	Weekly Average	17.1	41.5	5.7	11.0	0.52
3rd	Weekly Average	17.8	42.6	6.2	11.9	BLQ (LOQ-0.50)
4th	Weekly Average	20.3	48.2	7.0	12.7	0.53
LOCATION : Near H2 Gas Cylinder Shed						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	20.7	45.8	6.7	11.9	0.55
2nd	Weekly Average	26.3	55.3	8.1	13.9	BLQ (LOQ-0.50)
3rd	Weekly Average	23.0	48.5	6.8	11.1	BLQ (LOQ-0.50)
4th	Weekly Average	26.8	55.7	8.0	15.0	0.51
LOCATION : Near Watch Tower 22 (Cement Grinding Unit)						
Name of Week	**Particulars**	**PM2.5 (µg/m3)**	**PM10 (µg/m3)**	**SO2 (µg/m3)**	**NO2 (µg/m3)**	**CO (mg/m3)**
1st	Weekly Average	19.1	49.9	5.9	11.7	BLQ (LOQ-0.50)
2nd	Weekly Average	18.4	45.0	5.5	11.3	0.51
3rd	Weekly Average	21.6	48.8	6.4	13.6	0.55
4th	Weekly Average	25.1	55.1	7.3	12.3	BLQ (LOQ-0.50)
LOCATION : Near Fuel Storage Tank						
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	48.8	7.7	13.7	0.60
2nd	Weekly Average	20.8	47.7	6.3	12.9	0.50
3rd	Weekly Average	25.3	56.5	6.6	14.2	0.53
4th	Weekly Average	27.6	57.1	8.4	16.1	0.54

*BLQ - Below Limit of Quantification, LOQ - Limit of Quantification

For Jaypee Nigrie Super Thermal Power Plant

Authorized Signatory

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 - July 2022 to September 2022

S.NO.	UNIT STACK ATTACHED WITH PCE (POLLUTION CONTROLING EQUIPMENT)	AVG. DUST CONC. (mg/Nm3)		
		Jul-22	Aug-22	Sep-22
1	Unit - I (1X660 MW) - ESP	38.76	41.03	37.50
2	Unit - II (1X660 MW) - ESP	35.95	41.55	35.43

For Jaypee Nigrie Super Thermal Power Plant

Authorized Signatory

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

Annexure - III

QUATERLY ETP TREATED (RO - Permeate) WATER ANALYSIS REPORT

Period : July - 2022 to September - 2022

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value		
			Jul-22	Aug-22	Sep-22
1	pH (at 25°C Temp.)	5.5 - 9.0	7.04	7.59	7.46
2	SS (mg/l)	100.0	NIL	*BLQ(LOQ-1.0)	*BLQ(LOQ-1.0)
3	BOD (mg/l) 3rd days at 27°C	30.0	NIL	*BLQ(LOQ-2.0)	*BLQ(LOQ-2.0)
4	COD (mg/l)	250.0	6.40	7.36	8.00
5	Oil & Grease (mg/l)	10.0	NIL	*BLQ(LOQ-0.40)	*BLQ(LOQ-0.40)
6	TDS (mg/l)	2100.0	13.6	12.0	14.0
7	Chlorides (mg/l)	1000.0	3.37	3.18	2.98

*BLQ - Below Limit of Quantification, LOQ - Limit of Quantification

For Jaypee Nigrie Super Thermal Power Plant

Authorized Signatory

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

Annexure - IIIA

QUATERLY STP TREATED WATER ANALYSIS REPORT

Period : July - 2022 to September - 2022

Sr. No.	Testing Parameters	Norms as per MPPCB	Observed value (STP - 100 KLD)			Observed value (STP - 1000 KLD)		
			Jul-22	Aug-22	Sep-22	Jul-22	Aug-22	Sep-22
1	pH (at 25°C Temp.)	6.5 - 9.0	7.16	7.31	7.73	7.48	7.56	7.28
2	S.S (mg/l)	100.0	16.0	18.0	19.0	19.0	24.0	31.0
3	BOD (mg/l) 3rd days at 27°C	30.0	8.0	7.0	8.0	12.0	14.0	17.0
4	COD (mg/l)	250.0	48.0	44.8	57.6	73.6	80.0	86.5
5	Oil & Grease (mg/l)	10.0	1.72	2.00	1.20	2.40	2.20	2.10

For Jaypee Nigrie Super Thermal Power Plant

Authorized Signatory