



JPL/EMD/MINE-MR/OCTOBER-14/676

Date 04/11/2014

The Member Secretary,
Chhattisgarh Environment Conservation Board,
Commercial Complex, Chhattisgarh Housing Board Colony
Kabir Nagar, Raipur (C.G.)

Sub. – Monthly Environmental Monitoring Report (Ambient Air Quality, Sump Water Quality & Noise Level) for Jindal Power Open Cast Coal Mines, Tamnar, Raigarh for the Month of **October - 2014**.

Ref. – Consent to Operate under Water Act vides Letter No. 1463/TS/CECB/2013 and under Air Act vide Letter No. 1465/TS/CECB/2013 dt. 19/06/2013.

Dear Sir,

This has reference to the above referred letters for the subject matter. Please find enclosed herewith the Monthly Environmental Monitoring Report of Ambient Air Quality, Noise Level & Sump Water Quality as Annexure – I, II & III respectively of Jindal Power Open Cast Coal Mines, Tamnar, and Raigarh for the Month of **October - 2014**. This is for your kind perusal please.

Thanking you,

Yours faithfully,

For Jindal Power Limited,

Ashok Kumar

A. K. Singh
General Manager
Environment Management Department



Encl. As above

CC: Regional Officer,
CECB,
TV Tower Road, Raigarh

: for your kind perusal and record please.

Jindal Power Ltd. – Corporate Identity No. U04010CT1995PLC008985.
Registered Office Tamnar 496 107, District Raigarh, Chhattisgarh
T +91 7767 281701-08 / 302000 / 302004 F +91 7767 281995-281993
E-mail: info@jindalpower.com



**JINDAL POWER LIMITED
TAMNAR, RAIGARH**

TITLE:

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT FOR COAL MINES, COAL HANDLING PLANT & COAL WASHERY

Doc. No.

EMD/F/06

Issue No. / Date

02/01.04.2011

Rev. No / Date

00/00

Report No: CMAA/10/14

Month: - October - 2014

Date	Location-1 Near Mines Switch Yard				Location-2 Near KJS camp (Kosampali)				Location-3 Coal Handling Plant				Location-4 Dongamouha Village							
	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³
03.10.2014	52.3	24.5	8.5	21.4	0.54	54.3	23.6	8.3	21.8	0.57	56.4	23.8	8.2	21.6	0.58	47.2	21.6	7.9	21.2	0.56
07.10.2014	50.4	23.6	8.2	20.8	0.51	52.8	22.7	8.1	20.9	0.55	52.3	22.7	8.0	20.6	0.54	45.3	20.8	7.6	20.3	0.58
10.10.2014	46.9	20.7	7.6	19.4	0.55	48.6	21.6	7.9	19.8	0.54	50.1	21.9	7.8	19.8	0.52	43.6	19.8	7.3	18.9	0.53
14.10.2014	34.2	14.6	7.2	18.3	0.57	32.1	13.8	7.3	18.2	0.48	39.2	14.6	7.4	18.5	0.59	28.8	12.8	7.0	17.8	0.61
17.10.2014	48.2	23.2	8.3	21.3	0.63	46.7	19.8	7.6	20.1	0.52	45.7	19.5	7.6	20.3	0.57	39.8	16.8	7.4	19.6	0.58
21.10.2014	52.6	26.4	8.6	23.4	0.65	50.3	24.3	8.6	22.4	0.62	51.9	21.6	7.9	22.9	0.53	45.3	22.6	7.8	21.2	0.63
24.10.2014	56.8	27.2	8.8	24.3	0.68	53.6	25.2	8.8	23.3	0.65	53.4	24.6	8.3	23.2	0.61	52.6	23.4	8.1	22.1	0.64
28.10.2014	62.3	28.5	9.3	25.3	0.71	59.8	26.5	9.2	24.3	0.68	56.8	25.4	8.5	24.3	0.63	56.4	24.3	8.3	22.6	0.68
31.10.2014	60.4	39.1	9.5	25.8	0.73	63.4	28.2	9.4	25.4	0.64	62.8	26.8	8.8	25.3	0.66	52.8	25.2	8.5	23.4	0.65
Date	Location-5 Gare Village				Location-6 Libra Village				Location-7 Punj Lloyd Colony				Location-8 Urjanagar Colony							
	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³	PM-10 µg/m³	PM-2.5 µg/m³	SO ₂ µg/m³	NO _x µg/m³	CO mg/m³
03.10.2014	48.3	21.5	7.8	21.2	0.56	50.2	24.2	8.2	21.6	0.58	51.7	21.4	8.6	26.4	0.66	52.6	22.1	8.0	20.1	0.48
07.10.2014	50.6	22.3	8.2	21.8	0.59	52.6	22.7	8.4	22.2	0.61	52.1	21.3	8.5	24.9	0.58	48.8	20.6	8.4	20.0	0.42
10.10.2014	48.2	20.8	8.0	20.6	0.54	54.8	23.2	8.6	23.1	0.63	42.2	20.1	7.8	17.4	0.48	58.3	24.6	8.6	21.8	0.52
14.10.2014	32.6	13.5	7.5	18.6	0.43	35.8	13.3	7.6	21.3	0.52	38.8	20.3	8.4	20.8	0.65	48.6	21.2	8.5	19.6	0.54
17.10.2014	45.6	21.1	8.1	21.2	0.48	46.3	21.2	7.9	22.1	0.56	43.8	19.1	8.3	23.2	0.47	58.2	26.3	8.5	20.7	0.50
21.10.2014	56.8	24.6	8.3	22.1	0.52	58.4	24.3	8.5	23.4	0.62	60.4	26.3	9.3	24.2	0.56	58.0	24.6	9.6	20.9	0.52
24.10.2014	54.2	22.4	8.6	22.6	0.56	56.2	23.7	8.4	22.9	0.63	54.8	22.8	8.8	20.9	0.57	58.6	26.4	9.4	21.7	0.60
28.10.2014	49.3	23.6	7.9	21.8	0.58	50.8	22.6	8.2	23.1	0.65	51.4	22.7	8.5	22.4	0.54	48.6	20.4	7.8	20.8	0.73
31.10.2014	50.4	21.8	8.2	20.6	0.61	53.6	23.8	8.7	24.2	0.63	48.8	22.1	8.3	21.9	0.58	58.4	26.3	7.5	22.0	0.43

Permissible Limit (24 hrs Average):
(Standard Prescribed in NAAQS -2009)

PM-10 : 100 µg/m³, PM-2.5 : 60 µg/m³, SO₂ : 80 µg/m³, NO_x : 80 µg/m³, CO : 2.0 mg/m³

(Signature)
Chemist

(Signature)
HOD
Environment Management Department

12/04/2011

Date

Prepared By

Approved By HOD

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**JINDAL POWER LIMITED
TAMNAR, RAIGARH**

TITLE:
WATER QUALITY SAMPLING AND ANALYSIS REPORT FOR
COAL MINE SUMP AREA

Doc. No.	EMD/F/13
Issue No. / Date	02/01.04.2011
Rev. No / Date	00/00

Report No: SW/10/14

Month: -October - 2014

SL No	Particulars of Sampling Location With location Code	Date of Sampling	Date of Analysis
1.	Mines Sump Water	20.10.2014	20.10.2014

Sl. No.	Parameters	Unit	Result	*Permissible Limit
1.	pH	pH Unit	7.2	5.5-9.0
2.	TSS	mg/l	21	100
3.	COD	mg/l	31.2	250
4.	BOD (3 days at 27 °C)	mg/l	8.0	30
5.	Oil & Grease	mg/l	1.5	10

Note:

Mine Sump water is used for water sprinkling in haul road & green belt development purpose.

* Permissible Limit Prescribed by CECB, Raipur

TSS: Total Suspended Solids

COD: Chemical Oxygen Demand

BOD: Biochemical Oxygen Demand

Chemist

Environment Management Department

HOD

Environment Management Department

12/04/2011			Page 1 of 1
Date	Prepared By	Approved By HOD	



**JINDAL POWER LIMITED
TAMNAR, RAIGARH**

TITLE: NOISE LEVEL MONITORING REPORT FOR COAL MINES, COAL HANDLING PLANT & COAL WASHERY)	Doc. No.	EMD/F/08
	Issue No. / Date	02/01.04.2011
	Rev. No / Date	01/01.06.2012

Report No: NLM/10/14

Month: -October -2014

Sl. No.	Monitoring Location	Noise Level dB(A)	
		Day Time	Night Time
1.	Near Coal Excavation Area	76.2	68.2
2.	Near Mine Screen Hoper	72.4	64.6
3.	Near Coal Crushing Plant	78.6	73.3
4.	Near DUH area	70.2	63.7
5.	Ground Floor at Coal Washery	74.5	62.5
		Day Time	Night Time
6.	Inside KJS Camp	67.2	54.5
7.	Near CHP Office	70.6	52.9
8.	Near CHP Canteen	75.4	64.1
9.	Plant Boundary Near CHP Main Gate	64.3	51.9
10.	Near Switch Yard Area	73.7	57.3
11.	Near Coal Laboratory	75.1	60.2

Note:

Note: CECB (SPCB) Norms: Permissible limit of Noise level -85 dB (A) in the work environment (Sl No.1 to 4) and 75 dB (A) in day time & 70 dB (A) in night time within the Plant premises (Sl No.5 to 10). Day time means from 6:00 am to 10:00 pm Night Time means from 10:00 Pm to 06:00am. Noise monitoring (using Sound Level Meter) for work environment was carried out 1 meter away from the respective sources.

Frequency of Monitoring-Once in a Month

Chemist

Environment Management Department

HOD

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