

TALABIRA-I COAL BLOCK, SAMBALPUR

M/s GMR Chhattisgarh Energy Limited

ANALYSIS REPORT ON ENVIRONMENTAL MONITORING DATA GENERATED FOR THE MONTH OF JULY-2019

ENVIRONMENTAL MONITORING DONE BY

**KALYANI LABORATORIES PVT. LTD.
LAB: PLOT NO. 78, MILLENIUM CITY,
PAHAL, BBSR-752101**

This Report Contains Data On Ambient Air, Ground Water, Surface Water, Soil And Noise Monitoring
And Analysis

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TEST REPORT

Test Report No.: KLPL-TR/07/19/S-1117B

Issue Date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited.
Talabira-1, Coal block..

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of sampling: 24.07.2019

Date of Sample Receipt: 26.07.2019

Testing Dt.: 26.07.2019

Test completion Dt: 30.07.2019

Sample Description: Surface Water

Place of collection: Mines Pond Water

Sample Condition: Sealed plastic and sterilized glass Bottle

No. of Samples: 01

Sampling Method used, if any:

KLPL/SOP/Chem-28

Sl. No	Parameters	Results	Units	Standards as per IS-2296 class-"C"	Test Methods
1.	Colour	< 1.0	Hazen, Max	300	IS 3025 (Part 4):1983 RA 2012
2.	Total Suspended Solid	28	mg/l	--	APHA-22 nd Edition (2540 D)
3.	pH value	7.8	--	6.5-8.5	IS 3025 (Part 11):1983 RA 2012
4.	Electrical Conductivity	0.372	ms/cm	--	APHA-22 nd Edition (2510 A)
5.	Turbidity	1.5	NTU, max	--	IS 3025 (Part 10):1984 RA 2006
6.	Total dissolved solids	212	mg/l, max	1500	IS 3025 (Part 16):1984 RA 2006
7.	Chemical Oxygen Demand	< 5.0	mg/l, max	--	APHA-22 nd Edition (5220 B)
8.	Total Organic Carbon	< 5.0	mg/l, max	--	APHA-22 nd Eds.
9.	Total Kjeldal Nitrogen	1.68	mg/l, max	--	APHA-22 nd Edition (4500-N _{org} -B)
10.	Chloride (as Cl)	24.0	mg/l, max	--	IS 3025 (Part 32):1988 RA 2009
11.	Copper (as Cu)	< 0.01	mg/l, max	1.5	IS 3025 (Part 42):1992 RA 2009
12.	Fluoride (as F)	< 0.05	mg/l, max	1.5	IS 3025 (Part 60):2008
13.	Iron (as Fe)	1.5	mg/l, max	50	IS 3025 (Part 53):2003 RA 2009
14.	Manganese (as Mn)	< 0.1	mg/l, max	--	IS 3025 (Part 59):2006 RA 2012
15.	Nitrate (as NO ₃)	3.1	mg/l, max	50	IS 3025 (Part 34):1988 RA 2009
16.	Sulphate (as SO ₄)	34	mg/l, max	--	IS 3025 (Part 24):1986 RA 2009
17.	Total alkalinity (as CaCO ₃)	30	mg/l, max	--	IS 3025 (Part 23):1986 RA 2009





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Test Report No.: KLPL-TR/07/19/WATER-1117B

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	(as CaCO ₃)				RA 2009
18.	Total hardness (as CaCO ₃)	116	mg/l, max	--	IS 3025 (Part 21):2009
19.	Zinc (as Zn)	0.042	mg/l, max	15	IS 3025 (Part 49):1994 RA 2009
TOXIC SUBSTANCES					
20.	Cadmium (as Cd)	< 0.001	mg/l, max	0.01	IS 3025 (Part 41):1992 RA 2009
21.	Cyanide (as CN)	< 0.01	mg/l, max	0.05	IS 3025 (Part 27):1986 RA 2009
22.	Lead (as Pb)	< 0.01	mg/l, max	0.1	IS 3025 (Part 47):1994 RA 2009
23.	Mercury (as Hg)	< 0.001	mg/l, max	--	IS 3025 (Part 48):1994 RA 2009
24.	Nickel (as Ni)	< 0.01	mg/l, max	--	IS 3025 (Part 54):2003 RA 2009
25.	Biochemical Oxygen Demand	< 1.0	mg/l, max	3.0	APHA-22 nd Edition - 2012 (5210 B)
26.	Total arsenic (as As)	< 0.001	mg/l, max	0.2	IS 3025 (Part 37): 1988 RA 2009
27.	Total chromium (as Cr)	< 0.01	mg/l, max	--	IS 3025 (Part 52): 2003 RA 2009
28.	Dissolved Oxygen	6.5	mg/l,min	4.0	APHA-22 nd Edition (4500-O-C)
Remarks: Nil					Nil
Any unusual feature observed during determination					

***** End of Test Report *****

Reeta Kalyan
 Authorized Signatory 31/07/2019
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TEST REPORT

Test Report No.: KLPL-TR/07/19/WATER-1117A

Issue Date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited.
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of sampling: 24.07.2019

Date of Sample Receipt: 26.07.2019

Testing Dt.: 26.07.2019

Test completion Dt: 30.07.2019

Sample Description: Ground Water **Place of collection:** R & R COLONY OPEN WELL (Purushotam Meher)

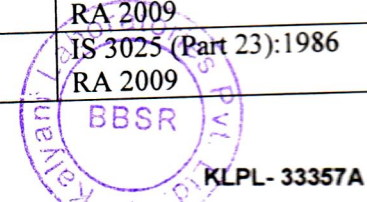
Sample Condition: Sealed plastic and sterilized glass Bottle

No. of Samples: 01

Sampling Method used, if any:

KLPL/SOP/Chem-28

Sl. No	Parameters	Results	Units	Acceptable Limit (IS: 10500:2012)	Test Methods
1.	Colour	< 1.0	Hazen, Max	5	IS 3025 (Part 4):1983 RA 2012
2.	Total Suspended Solid	30	mg/l, max	--	APHA-22 nd Edition (2540 D)
3.	pH value	7.2	--	6.5-8.5	IS 3025 (Part 11):1983 RA 2012
4.	Ground Water Level	5.25	Meter	--	--
5.	Electrical Conductivity	0.345	ms/cm	--	APHA-22 nd Edition (2510 A)
6.	Turbidity	0.9	NTU, Max	1.0	IS 3025 (Part 10):1984 RA 2006
7.	Total dissolved solids	178	mg/l, max	500	IS 3025 (Part 16):1984 RA 2006
8.	Chemical Oxygen Demand	< 5.0	mg/l, max	--	APHA-22 nd Edition (5220 B)
9.	Total Kjeldal Nitrogen	1.12	mg/l, max	--	APHA-22 nd Edition (4500-N _{org} -B)
10.	Chloride (as Cl)	24	mg/l, max	250	IS 3025 (Part 32):1988 RA 2009
11.	Copper (as Cu)	< 0.02	mg/l, max	0.05	IS 3025 (Part 42):1992 RA 2009
12.	Fluoride (as F)	0.15	mg/l, max	1.0	IS 3025 (Part 60):2008
13.	Iron (as Fe)	< 0.05	mg/l, max	1.0	IS 3025 (Part 53):2003 RA 2009
14.	Manganese (as Mn)	< 0.05	mg/l, max	0.10	IS 3025 (Part 59):2006 RA 2012
15.	Nitrate (as NO ₃)	2.8	mg/l, max	45.0	IS 3025 (Part 34):1988 RA 2009
16.	Sulphate (as SO ₄)	24	mg/l, max	200	IS 3025 (Part 24):1986 RA 2009
17.	Total alkalinity (as CaCO ₃)	84	mg/l, Max	200	IS 3025 (Part 23):1986 RA 2009





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	CaCO ₃)				RA 2009
18.	Total hardness (as CaCO ₃)	112	mg/l, Max	200	IS 3025 (Part 21):2009
19.	Zinc (as Zn)	0.035	mg/l, Max	5.0	IS 3025 (Part 49):1994 RA 2009
TOXIC SUBSTANCES					
20.	Cadmium (as Cd)	< 0.001	mg/l, Max	0.003	IS 3025 (Part 41):1992 RA 2009
21.	Cyanide (as CN)	< 0.01	mg/l, Max	0.05	IS 3025 (Part 27):1986 RA 2009
22.	Lead (as Pb)	< 0.005	mg/l, Max	0.01	IS 3025 (Part 47):1994 RA 2009
23.	Mercury (as Hg)	< 0.0005	mg/l, Max	0.001	IS 3025 (Part 48):1994 RA 2009
24.	Nickel (as Ni)	< 0.01	mg/l, Max	0.02	IS 3025 (Part 54):2003 RA 2009
25.	Total Pesticide	< 0.0001	mg/l, Max	0.0005	USEPA
26.	Total arsenic (as As)	< 0.001	mg/l, Max	0.01	IS 3025 (Part 37): 1988 RA 2009
27.	Total chromium (as Cr)	< 0.02	mg/l, Max	0.05	IS 3025 (Part 52): 2003 RA 2009
Remarks: Nil					Nil
Any unusual feature observed during determination					Nil

***** End of Test Report *****

Reeta Das 31/7/2019

Authorized Signatory
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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171

Issue date: 31.07.2019

Name and address of the Customer: M/s M/s GMR Chhattisgarh Energy Limited.
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019 Testing Dt.: 26.07.2019 Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality No. of Samples: 1

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	20-21/07/2019	R & R Colony. 3.2 Km from the mines in direction of North East	Sulphur Dioxide (SO ₂), µg/m ³	6.43	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	12.23	80	
3.			Particulate Matter (Size less than 10µm) or PM10, go/m ³	63.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM2.5, µg/m ³	43.30	60	
5.			Lead (Pb), µg/m ³	< 0.02	01	
6.			Arsenic (As), ng/m ³	< 1.0	06	
7.			Mercury (Hg), ng/m ³	< 1.0	--	
8.			Chromium (Cr), ng/m ³	< 1.0	--	
Remarks		Nil	Nil			
Any unusual feature observed during determination				Nil		

End of Test Report



Penba clayay
31/7/2019
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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171A

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019 Testing Dt.: 26.07.2019 Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality No. of Samples: 1

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	21-22/07/2019	Weigh Bridge 0.5 Km from the mines in direction south	Sulphur Dioxide (SO ₂), µg/m ³	8.35	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	16.40	80	
3.			Particulate Matter (Size less than 10µm) or PM ₁₀ , µg/m ³	48.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM _{2.5} , µg/m ³	31.12	60	
Remarks			Nil			
Any unusual feature observed during determination			Nil			

End of Test Report

Reekha Nayak
31/7/2019
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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171B

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800133242, Date-27.12.2016

Date of Sample Receipt: 26.07.2019 Testing Dt.: 26.07.2019 Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality No. of Samples: 1

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	20-21/07/2019	Near the Petrol pump	Sulphur Dioxide (SO ₂), µg/m ³	5.38	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	13.01	80	
3.			Particulate Matter (Size less than 10µm) or PM10, µg/m ³	52.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM2.5, µg/m ³	34.49	60	
Remarks				Nil		
Any unusual feature observed during determination				Nil		

End of Test Report

Rekha Nayak
31/7/2019
Authorized Signatory
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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171C

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019 Testing Dt.: 26.07.2019 Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality No. of Samples: 1

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	23-24/07/2019	In front of the Mines Office	Sulphur Dioxide (SO ₂), µg/m ³	4.44	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	17.03	80	
3.			Particulate Matter (Size less than 10µm) or PM10, µg/m ³	59.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM2.5, µg/m ³	41.67	60	
Remarks		Nil	Nil			
Any unusual feature observed during determination						

***** End of Test Report *****


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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171D

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019

Testing Dt.: 26.07.2019

Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality

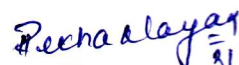
No. of Samples: 01

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	22-23/07/2019	Rest Shelter. 1.5 Km from the mines in direction South East	Sulphur Dioxide (SO ₂), µg/m ³	5.33	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	16.12	80	
3.			Particulate Matter (Size less than 10µm) or PM10, µg/m ³	56.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM2.5, µg/m ³	37.50	60	
5.			Lead (Pb), µg/m ³	< 0.02	01	
6.			Arsenic (As), ng/m ³	< 1.0	06	
7.			Mercury (Hg), ng/m ³	< 1.0	--	
8.			Chromium (Cr), ng/m ³	< 1.0	--	
Remarks		Nil	Nil			
Any unusual feature observed during determination			Nil			

End of Test Report


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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171E

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019

Testing Dt.: 26.07.2019

Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality


No. of Samples: 1

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	21-22/07/2019	Khinda village. 3 Km from the mines in direction of South East	Sulphur Dioxide (SO ₂), µg/m ³	8.32	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	15.11	80	
3.			Particulate Matter (Size less than 10µm) or PM10, µg/m ³	61.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM2.5, µg/m ³	39.31	60	
5.			Lead (Pb), µg/m ³	< 0.02	01	
6.			Arsenic (As), ng/m ³	< 1.0	06	
7.			Mercury (Hg), ng/m ³	< 1.0	--	
8.			Chromium (Cr), ng/m ³	< 1.0	--	
Remarks				Nil		
Any unusual feature observed during determination				Nil		

End of Test Report


 Authorized Signatory
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TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171F

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019 **Testing Dt.:** 26.07.2019 **Test completion Dt.:** 30.07.2019

Sample Description: Ambient Air Quality **No. of Samples:** 1

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	NAAQS, 2009	Test Method
1.	22-23/07/2019	Babu Khinda 3.5 Km from the mines in direction of North East	Sulphur Dioxide (SO ₂), µg/m ³	7.20	80	Guidelines for the Measurement of Ambient Air Pollutants Volume-I & II, CPCB
2.			Nitrogen Dioxide (NO ₂), µg/m ³	17.28	80	
3.			Particulate Matter (Size less than 10µm) or PM10, µg/m ³	46.0	100	
4.			Particulate Matter (Size less than 2.5µm) or PM2.5, µg/m ³	29.41	60	
5.			Lead (Pb), µg/m ³	< 0.02	01	
6.			Arsenic (As), ng/m ³	< 1.0	06	
7.			Mercury (Hg), ng/m ³	< 1.0	--	
8.			Chromium (Cr), ng/m ³	< 1.0	--	
Remarks		Nil				
Any unusual feature observed during determination				Nil		

***** End of Test Report *****


 Authorized Signatory
 Kalyani Laboratories Private Limited





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78/944, PAHAL, BHUBANESWAR-752101, ODISHA

TEST REPORT

Test Report No.: KLPL-TR/07/19/AAQM-171G

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited.
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: 26.07.2019 Testing Dt.: 26.07.2019 Test completion Dt.: 30.07.2019

Sample Description: Ambient Air Quality No. of Samples: 1

Sampling Point. : Downwind direction of Talabira 1 mines

Sample Condition: Gaseous sample absorbing solutions refrigerated

Sampling Method used, if any: KLPL/SOP/ Air-06

Sl. No	Date of Sampling	Sampling Location	Parameters	Observed Value	Test Method
1.	23/07/2019	A1-Downwind point of Talabira-1 mine area	Total VOC ($\mu\text{g}/\text{m}^3$)	< 0.001	Solvent Extraction followed by GC analysis.
2.			PAH ($\mu\text{g}/\text{m}^3$)	< 0.001	
Remarks		Nil		Nil	
Any unusual feature observed during determination					

End of Test Report

Recha Klaya
31/7/2019
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TEST REPORT

Test Report No.: KLPL-TR/07/19/NOISE(171H - 171N)

Issue date: 31.07.2019

Name and address of the Customer: M/s GMR Chhattisgarh Energy Limited,
Talabira-1, Coal block.

Customer's reference: Service Order No.: 4800148522 Date-08.01.2019

Date of Sample Receipt: Not Applicable Testing Dt.: Not Applicable Test completion Dt.: Not Applicable

Sample Description: Noise Level No. of Samples: 07

Sample Condition: NA

Sampling Method used, if any: KLPL/SOP/ Air-06

SL. NO	DATE OF MONITORING	SAMPLING LOCATION	NOISE LEVEL IN dB(A) LEQ, DAY TIME (6.00AM TO 10.00PM)	NOISE LEVEL IN dB(A) LEQ, NIGHT TIME (10.00 PM to 6.00 AM)
1.	21.07.2019	Near Weigh Bridge	59.1	43.1
2.	20.07.2019	Near Petrol Pump	57.2	43.7
3.	23.07.2019	In front of Mining Office	60.3	51.1
4.	22.07.2019	Rest Shelter	56.5	43.2
5.	21.07.2019	Khinda Village	52.5	41.6
6.	22.07.2019	Babu Khinda	51.0	41.2
7.	20.07.2019	R & R Colony	49.2	42.4
		Standard as per Noise Rule, 2000 (Industrial Area)	75.0	70.0
		Standard as per Noise Rule, 2000 (Residential Area)	55.0	45.0
Remarks:			Nil	Nil
Any unusual feature observed during determination				

End of Test Report

Rehman Kalyan
31/7/2019
Authorized Signatory
Kalyani Laboratories Private Limited

