



Environmental Research and Services (India) Pvt. Ltd.



(An ISO/ICE 17025: (NABL) Accredited Laboratory, OSPCB Empanelled Laboratory and ISO 9001: 2015 Certified Company)

Plot No: B-22, Sector-B, Industrial Estate Chandaka, Infocity Road, Bhubaneswar-751024, Odisha Tel: +91-9437143248, +91-9937690329, E-mail: ersibbsr@gmail.com

ULR-TC7440180-00000272P

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 25 Mar 2019

Name and Address of the Customer

Sample Collected by

Sample Collected in presence of

Date of Sampling/Monitoring Sample Received on

Analysis Started on Analysis Completed on

Method of Sampling

Quantity of Sample Environment Condition Test Report No: ERSIPL/TR/AA/140

Dulanga Coal Mine of M/s NTPC Limited in Sundargarh district, Odisha.

Representative of ERS (I) Pvt. Ltd.

Representative of Client. 03-04.03.2019

14.03.2019 14.03.2019

21.03.2019

As per guidelines for sampling & measurement of notified AAQ

parameters (NAAQS 2009)-CPCB

01 sample for each parameter Cloudy/Rainy, Temp-29°C/19°C

Sample ID. No.

1. ERSIPL/AA/1179

2. ERSIPL/AA/1180

3. ERSIPL/AA/1181

4. ERSIPL/AA/1182

Locations (Core Zone)

1. Near Site Office (NTPC), Kapurikachhar

2. Near Village Dulanga

3. Near Village Beldihi

4. Near Village Maihapara

SI. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov- 2009	Results			-
					ERSIPL/ AA/ 1179	ERSIPL/ AA/ 1180	ERSIPL/ AA/ 1181	ERSIPL/ AA/ 1182
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	μg/m³	xx	201.98	194.63	178.62	238.45
2	Particulate Matter (size less than 10 μm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed -2017, Gravimetric Method	μg/m³	100.0	71.52	66.50	67.24	81.67
3	Particulate Matter (size less than 2.5 μm) or PM 2.5	ERSIPL/SOP/01 Issue No:03, Revision Date: 01.02.2019	μg/m³	60.0	33.38	30.95	28.10	36.21
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	μg/m³	80.0	<6.0	7.85	8.66	<6.0
5	Oxides of Nitrogen (NO _X)	IS 5182 (Part 6): 2006, Reaffirmed -2017	μg/m³	80.0	10.94	13.96	14.59	9.46
6	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14







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ULR-TC7440180-00000273P

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

Date: 25 Mar 2019

Name and Address of the Customer

Sample Collected by

Sample Collected in presence of

Date of Sampling/Monitoring

Sample Received on

Analysis Started on Analysis Completed on

Method of Sampling

Quantity of Sample **Environment Condition**

Sample ID. No.

2 ERSIPL/AA/1184

TEST FINDINGS:

1. ERSIPL/AA/1183

3. ERSIPL/AA/1185

4. ERSIPL/AA/1186

Test Report No: ERSIPL/TR/AA/141

Dulanga Coal Mine of M/s NTPC Limited in Sundargarh district, Odisha.

Representative of ERS (I) Pvt. Ltd.

Representative of Client.

04-05.03.2019

14.03.2019

14.03.2019

21.03.2019

As per guidelines for sampling & measurement of notified AAQ

parameters (NAAQS 2009)-CPCB

01 sample for each parameter

Cloudy/Rainy, Temp-33°C/20°C

Locations (Buffer Zone)

1. Near Village Bendrichua

2. Near Village Rengalmunr

3. Near Village Khuntjharia

4. Near Village Kathfali

SI. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/ AA/ 1183	ERSIPL/ AA/ 1184	ERSIPL/ AA/ 1185	ERSIPL/ AA/ 1186
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	μg/m ³	xx	212.98	181.60	189.33	203.98
2	Particulate Matter (size less than 10 µm) or PM 10	IS 5182 (Part 23): 2006, Reaffirmed -2017, Gravimetric Method	μg/m ³	100.0	69.51	76.55	65.23	83.62
3	Particulate Matter (size less than 2.5 µm) or PM 2.5 ERSIPL/SOP/01 Issue No:03, Revision Date: 01.02.201		μg/m ³	60.0	27.45	30.52	27.08	32.41
4	Sulphur Dioxide (SO2) IS 5182 (Part 2): 200: Reaffirmed-2017, Improve West & Gaeke Method		μg/m ³	80.0	6.51	9.56	7.03	9.50
5	Oxides of Nitrogen (NO _X)	IS 5182 (Part 6): 2006, Reaffirmed -2017	μg/m ³	80.0	11.45	10.09	9.28	11.37
6	Carbon Monoxide (CO) By CO Monitor		mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14





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Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg-1/1

Date: 25 Mar 2019

Name and Address of the Customer

Sample Collected by

Sample Collected in presence of

Date of Sampling/Monitoring

Sample Received on

Analysis Started on

Analysis Completed on

Method of Sampling

Quantity of Sample

Sample ID. No.

- 1. ERSIPL/AA/1179
- 2. ERSIPL/AA/1180
- 3. ERSIPL/AA/1181
- 4. ERSIPL/AA/1182
- 5. ERSIPL/AA/1183
- ERSIPL/AA/1184
- ERSIPL/AA/1185
- 8. ERSIPL/AA/1186

Test Report No: ERSIPL/TR/AA/140-141T

Dulanga Coal Mine of M/s NTPC Limited in Sundargarh district, Odisha.

: Representative of ERS (I) Pvt. Ltd.

: Representative of Client.

: 03-05.03.2019

: 14.03.2019

14.03.2019

: 21.03.2019

: IS 5182 : Part 5 : 1975, Reaffirmed 2014

: 01 sample for each parameter

Locations

1. Near Site Office (NTPC), Kapurikachhar

2. Near Village Dulanga

3. Near Village Beldihi

4. Near Village Majhapara

5. Near Village Bendrichua

6. Near Village Rengalmunr

7. Near Village Khuntjharia

8. Near Village Kathfali

TEST FINDINGS:

	Result of Parameters Analyzed						
Place of Monitoring	Mercury (Hg) (in µg/m³)	Arsenic (As) (ng/m³)	Nickel (Ni) (ng/m³)	Cadmium (Cd) (in µg/m³)	Chromium (Cr) (in µg/m³)		
ERSIPL/AA/1179	ND	ND	ND	ND	ND		
ERSIPL/AA/1180	ND	ND	ND	ND	ND		
ERSIPL/AA/1181	ND	ND	ND	ND	ND		
ERSIPL/AA/1182	ND	ND	ND	ND	ND		
ERSIPL/AA/1183	ND	ND	ND	ND	ND		
ERSIPL/AA/1184	ND	ND	ND	ND	ND		
ERSIPL/AA/1185	ND	ND	ND	ND	- ND		
ERSIPL/AA/1186	ND	ND	ND	ND	ND		
Permissible Limit	-	06	20.0	-	-8		

Note: ND = Not Detected

(Authorized Signatory)
S.P.Pattanayak
Tech.Manager

......END OF TEST REPORT......