



GSTIN : 21AAACE6224D1ZE



Environmental Research and Services (India) Pvt. Ltd.

(An ISO/IEC 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

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000197P

Date: 18 Feb 2019

Test Report No: ERSIPL/TR/AA/108

Name and Address of the Customer	:	Dulanga Coal Mine of M/s NTPC Limited in Sundargarh district, Odisha.
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of Client.
Date of Sampling/Monitoring	:	01-03.02.2019
Sample Received on	:	11.02.2019
Analysis Started on	:	11.02.2019
Analysis Completed on	:	18.02.2019
Method of Sampling	:	As per guidelines for sampling & measurement of notified AAQ parameters (NAAQS 2009)-CPCB
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny, Temp-29 ^o C/13 ^o C

Sample ID. No.

1. ERSIPL/AA/1010
2. ERSIPL/AA/1011
3. ERSIPL/AA/1012
4. ERSIPL/AA/1013

Locations (Core Zone)

1. Near Site Office (NTPC), Kapurikachhar
2. Near Village Dulanga
3. Near Village Beldihi
4. Near Village Majhapara

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/1010	ERSIPL/AA/1011	ERSIPL/AA/1012	ERSIPL/AA/1013
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	186.53	225.88	193.81	239.44
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	71.51	61.51	83.42	71.77
3	Particulate Matter (size less than 2.5 µm) or PM 2.5	ERSIPL/SOP/01 Issue No:02, Revision Date: 19.02.2018	µg/m ³	60.0	25.35	32.49	29.29	37.38
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	<6.0	6.27	6.09	<6.0
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	<9.0	9.94	10.93	14.40
6	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory)

S.P.Pattanayak
Tech Manager

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



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Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000198P

Date: 18 Feb 2019

Test Report No: ERSIPL/TR/AA/109

Name and Address of the Customer	:	Dulanga Coal Mine of M/s NTPC Limited in Sundargarh district, Odisha.
Sample Collected by	:	Representative of ERS (I) Pvt. Ltd.
Sample Collected in presence of	:	Representative of Client.
Date of Sampling/Monitoring	:	01-03.02.2019
Sample Received on	:	11.02.2019
Analysis Started on	:	11.02.2019
Analysis Completed on	:	18.02.2019
Method of Sampling	:	As per guidelines for sampling & measurement of notified AAQ parameters (NAAQS 2009)-CPCB
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny, Temp-29 ⁰ C/13 ⁰ C

Sample ID. No.

1. ERSIPL/AA/1014
2. ERSIPL/AA/1015
3. ERSIPL/AA/1016
4. ERSIPL/AA/1017

Locations (Buffer Zone)

1. Near Village Bendrichua
2. Near Village Rengalmunr
3. Near Village Khuntjharja
4. Near Village Kathfali

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/1014	ERSIPL/AA/1015	ERSIPL/AA/1016	ERSIPL/AA/1017
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	201.81	210.43	233.50	182.26
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	80.47	65.62	79.47	82.63
3	Particulate Matter (size less than 2.5 µm) or PM 2.5	ERSIPL/SOP/01 Issue No:02, Revision Date: 19.02.2018	µg/m ³	60.0	27.88	32.95	38.36	28.61
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.08	<6.0	<6.0	6.51
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	10.59	11.62	9.35	10.12
6	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14


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



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Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000203P

Date: 22 Feb 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/110

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

: Representative of ERS (I) Pvt. Ltd.

: Representative of Client.

: 18-19.02.2019

: 21.02.2019

: 21.02.2019

: 22.02.2019

: IS 5182 : Part 5 : 1975, Reaffirmed 2014

: 01 sample for each parameter

: Sunny, Temp-30°C/16.0°C

Sample ID. No.

1. ERSIPL/AA/1112
2. ERSIPL/AA/1113
3. ERSIPL/AA/1114
4. ERSIPL/AA/1115

Locations (Core Zone)

1. Near Site Office (NTPC), Kapurikachhar
2. Near Village Dulanga
3. Near Village Beldihi
4. Near Village Majhapara

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/1112	ERSIPL/AA/1113	ERSIPL/AA/1114	ERSIPL/AA/1115
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	190.59	228.62	265.57	230.71
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	70.97	74.49	81.82	72.84
3	Particulate Matter (size less than 2.5 µm) or PM 2.5	ERSIPL/SOP/01 Issue No:02, Revision Date: 19.02.2018	µg/m ³	60.0	35.02	32.67	36.80	27.38
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	<6.0	7.68	7.49	8.92
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	11.38	13.79	10.85	14.02
6	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory)

S.P.Pattanayak

END OF TEST REPORT.....

