



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
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Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000163P

Date: 25 Jan 2019

Test Report No: ERSIPL/TR/AA/97

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 : 03-04.01.2019
Sample Received on : 11.01.2019
Analysis Started on : 11.01.2019
Analysis Completed on : 14.01.2019
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-26°C/10°C

Sample ID. No.

1. ERSIPL/AA/917
2. ERSIPL/AA/918
3. ERSIPL/AA/919
4. ERSIPL/AA/920

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/917	ERSIPL/AA/918	ERSIPL/AA/919	ERSIPL/AA/920
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	255.61	169.55	213.56	192.55
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	66.33	68.87	70.90	77.55
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	34.78	31.05	29.34	25.67
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.04	8.49	<6.0	7.47
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	10.32	9.28	11.37	9.71
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



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Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000164P

Date: 25 Jan 2019

Test Report No: ERSIPL/TR/AA/98

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 : 04-05.01.2019
Sample Received on : 11.01.2019
Analysis Started on : 11.01.2019
Analysis Completed on : 14.01.2019
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°C/10°C

Sample ID. No.

1. ERSIPL/AA/921
2. ERSIPL/AA/922
3. ERSIPL/AA/923
4. ERSIPL/AA/924

Locations (Buffer Zone)

1. Near Village Bendrichua
2. Near Village Rengalmunr
3. Near Village Khuntjharua
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/921	ERSIPL/AA/922	ERSIPL/AA/923	ERSIPL/AA/924
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	288.33	207.61	218.63	303.91
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	65.35	80.11	67.63	76.54
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	32.73	36.13	35.51	37.45
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	<6.0	6.80	8.55	8.21
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	14.57	12.22	10.09	12.15
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 (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000165P**Date: 25 Jan 2019****Test Report No: ERSIPL/TR/AA/99**

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 : 22-23.01.2019
Sample Received on : 24.01.2019
Analysis Started On : 24.01.2019
Analysis Completed on : 25.01.2019
Method of Sampling : IS 5182 : Part 5 : 1975, Reaffirmed 2014
Quantity of Sample : 01 sample for each parameter
Environment Condition : Sunny, Temp-30°C/13.5°C

Sample ID. No.

1. ERSIPL/AA/960
2. ERSIPL/AA/961
3. ERSIPL/AA/962
4. ERSIPL/AA/963

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/960	ERSIPL/AA/961	ERSIPL/AA/962	ERSIPL/AA/963
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	192.46	232.87	184.22	235.44
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	88.30	77.79	69.23	66.19
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	33.69	27.96	25.02	31.62
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	<6.0	7.39	7.71	8.63
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	11.53	13.74	15.77	12.52
6	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory)

