



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)

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Ref. No.

Date.....

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-0000088P

Date: 27 Nov 2018

Test Report No: ERSIPL/TR/AA/67

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 : 11-12.11.2018
Sample Received on : 19.11.2018
Analysis Started on : 20.11.2018
Analysis Completed on : 26.11.2018
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-33⁰C/16⁰C

Sample ID. No.

1. ERSIPL/AA/820
2. ERSIPL/AA/821
3. ERSIPL/AA/822
4. ERSIPL/AA/823

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/820	ERSIPL/AA/821	ERSIPL/AA/822	ERSIPL/AA/823
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	185.52	210.65	192.55	186.97
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	83.69	71.69	69.02	74.23
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	36.84	37.03	28.72	31.88
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.26	8.65	7.91	7.18
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	11.96	12.26	12.31	14.07
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 (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000089P

Date: 27 Nov 2018

Test Report No: ERSIPL/TR/AA/68

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	:	12-13.11.2018
Sample Received on	:	19.11.2018
Analysis Started on	:	20.11.2018
Analysis Completed on	:	26.11.2018
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-30 ^o C/15 ^o C

Sample ID. No.

- ERSIPL/AA/824
- ERSIPL/AA/825
- ERSIPL/AA/826
- ERSIPL/AA/827

Locations (Buffer Zone)

- Near Village Bendrichua
- Near Village Rengalmunr
- Near Village Khuntjharia
- Near Village Kathfali

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/824	ERSIPL/AA/825	ERSIPL/AA/826	ERSIPL/AA/827
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	221.61	199.24	210.53	225.55
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	65.13	72.51	81.94	68.00
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	32.17	32.78	30.84	32.14
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.45	<6.0	7.75	8.46
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	9.94	9.55	11.69	13.37
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 (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000090P**Date: 27 Nov 2018****Test Report No: ERSIPL/TR/AA/69**

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 : 21-22.11.2018
 Sample Received on : 24.11.2018
 Analysis Started On : 24.11.2018
 Analysis Completed on : 26.11.2018
 Method of Sampling : IS 5182 : Part 5 : 1975, Reaffirmed 2014
 Quantity of Sample : 01 sample for each parameter
 Environment Condition : Sunny, Temp-33°C/17°C

Sample ID. No.

1. ERSIPL/AA/848
2. ERSIPL/AA/849
3. ERSIPL/AA/850
4. ERSIPL/AA/851

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/848	ERSIPL/AA/849	ERSIPL/AA/850	ERSIPL/AA/851
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	184.24	210.47	175.23	241.24
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	74.51	69.22	75.84
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	33.92	27.77	29.46	32.96
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.54	7.70	6.30	8.39
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	10.64	11.70	11.20	12.85
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

