



GSTIN : 21AAACE6224D1ZE



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
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Ref. No.

Date.....

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000074P

Date: 30 Oct 2018

Test Report No: ERSIPL/TR/AA/58

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	:	04-05.10.2018
Sample Received on	:	12.10.2018
Analysis Started on	:	12.10.2018
Analysis Completed on	:	15.10.2018
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-33 ⁰ C/21 ⁰ C

Sample ID. No.

1. ERSIPL/AA/739
2. ERSIPL/AA/742
3. ERSIPL/AA/740
4. ERSIPL/AA/741

Locations (Core Zone)

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

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/739	ERSIPL/AA/742	ERSIPL/AA/740	ERSIPL/AA/741
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	204.56	210.89	178.55	179.17
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	78.55	70.21	74.25	68.70
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	31.45	34.43	26.66	29.25
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	7.46	8.15	8.36	<6.0
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	10.40	9.66	10.33	<9.0
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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Date.....

Test Report Format No.: ERSIPL/FM/37

TEST REPORT (AMBIENT AIR)

Pg No: 1 of 1

ULR-TC7440180-00000075P

Date: 30 Oct 2018

Test Report No: ERSIPL/TR/AA/59

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 : 05-06.10.2018
Sample Received on : 12.10.2018
Analysis Started on : 12.10.2018
Analysis Completed on : 15.10.2018
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/Rainy, Temp-34⁰C/22⁰C

Sample ID. No.

1. ERSIPL/AA/746
2. ERSIPL/AA/743
3. ERSIPL/AA/745
4. ERSIPL/AA/744

Locations (Buffer Zone)

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

TEST FINDINGS:

Sl. No	Test Parameters	Test method	Unit	Permissible Limit as per NAAQ Standards CPCB Nov-2009	Results			
					ERSIPL/AA/746	ERSIPL/AA/743	ERSIPL/AA/745	ERSIPL/AA/744
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	221.95	256.75	182.35	184.64
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	72.92	73.25	71.90	65.13
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	34.32	28.98	30.62	31.43
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	6.39	7.18	7.21	7.17
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	11.24	9.48	13.87	11.80
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 No: 1 of 1

ULR-TC7440180-00000076P

Date: 30 Oct 2018

Test Report No: ERSIPL/TR/AA/60

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	:	23-24.10.2018
Sample Received on	:	29.10.2018
Analysis Started On	:	29.10.2018
Analysis Completed on	:	30.10.2018
Method of Sampling	:	IS 5182 : Part 5 : 1975, Reaffirmed 2014
Quantity of Sample	:	01 sample for each parameter
Environment Condition	:	Sunny, Temp-33°C/20°C

Sample ID. No.

1. ERSIPL/AA/784
2. ERSIPL/AA/785
3. ERSIPL/AA/786
4. ERSIPL/AA/787

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/784	ERSIPL/AA/785	ERSIPL/AA/786	ERSIPL/AA/787
1	Suspended Particulate Matter (SPM)	IS: 5182 (Part 4)- 1999, Reaffirmed 2014, Gravimetric Method	µg/m ³	xx	155.73	173.44	188.26	179.12
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	60.13	71.20	77.14	63.41
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	27.45	31.67	26.13	30.91
4	Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, Reaffirmed-2017, Improved West & Gaeke Method	µg/m ³	80.0	9.17	8.69	<6.0	8.24
5	Oxides of Nitrogen (NO _x)	IS 5182 (Part 6): 2006, Reaffirmed -2017	µg/m ³	80.0	11.77	15.61	9.84	14.50
6	Carbon Monoxide (CO)	By CO Monitor	mg/m ³	2.0	<1.14	<1.14	<1.14	<1.14

(Authorized Signatory)

END OF TEST REPORT

[Signature]
P. P. Pattanayak

