ENVIRONMENTAL DATA GENERATION OF

HINDALCO INDUSTRIES LTD.

Kathautia Open Cast Coal Mines, Post – Naudiha, P.S. Pandwa, Daltonganj, Distt. – Palamu (Jharkhanand)

July- 2020

Prepared by



NABL Accredited; MOEF & CC Recognized; CECB Approved Laboratory
An ISO 9001:2015, ISO 18001:2007 & ISO 14001:2004 Certified Laboratory

Reg. Off. - HDD-272 Phase-3, Kabir Nagar, Raipur (C.G.)-492099 Ph-(0771)-4027777, ultimatenviro@gmail.com



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer

TO,

HINDALCO INDUSTRIES LIMITED,

KATHAUTIA OPEN CAST COAL MINES,

POST – NAUDIHA, P.S. PANDWA,

DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/093	1
LAB REF NO	UES/20-21/AAQM/1	.272
DATE OF SAMPLING	03/07/2020 to 29	/07/2020
DATE OF RECEIPT	04/07/2020 to 30	/07/2020
DATE OF REPORT	04/08/2020	
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020

SAMPLE DETAILS						
MONITORING FOR	AMBIENT AIR QUALITY MONIT	ORING CUSTOME	R REF.	NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
SAMPLING LOCATION	R & R COLONY, CHANDAN NAG	AR (BUFFER ZONE)				
DURATION OF SAMPLING	24 HOURS SAMPLE COLLECTED BY LABORATORY CHEMIST				HEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE					
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 N SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.					

Test Method and NAAQM Standard for Ambient Air Quality Monitoring					
Parameter	Method Reference	NAAQM Standard			
Particulate Matter size less than 10 microns (PM_{10})	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100			
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines VolI	60			
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80			
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80			
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0			
Mercury (Hg)	EPA Method IO-5				

TEST REPORT								
Date of Sampling	PM ₁₀ µg/m³	PM _{2.5} μg/m ³	SO ₂ µg/m³	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³		
03.07.2020	46	22	12	22	1.0	N.D.		
06.07.2020	40	24	10	26	1.6	N.D.		
10.07.2020	38	26	08	30	1.2	N.D.		
15.07.2020	52	20	12	25	1.4	N.D.		
18.07.2020	46	28	16	28	1.2	N.D.		
24.07.2020	42	24	08	25	1.0	N.D.		
27.07.2020	48	22	11	24	1.6	N.D.		
29.07.2020	50	26	08	26	1.2	N.D.		

Terms & conditions

- > The report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above tool(SARCHYT)

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

PREPARED BY

04/08/2020

End of the test report-



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Name & Address Of The Cust		REPORT N		UES/TR/20-21/093 UES/20-21/AAQM/1	idan	
HINDALCO INDUS	TRIES LIMITED, N CAST COAL MINES,	DATE OF	SAMPLING	03/07/2020 to 29		
POST – NAUDIHA, P.S. PANDWA,		DATE OF		04/07/2020 to 30/07/2020 04/08/2020		
DALTONGANJ, DI	STT PALAMU (JH)	DATE OF	ANALYSIS	START: 31/07/2020	END: 04/08/2020	
		SAMPLE D	ETAILS			
				K/PO	/SRV/2021/0033	

		SAMPLE I	DETAILS		
MONITORING FOR AMBIENT AIR QUALITY MONITOR		PRING CUSTOMER REF. NO. & DATE		F. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	KATHAUTIYA VILLAGE (BUFFER	ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE (COLLECTED BY	LABORATORY CH	HEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 N SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.				

Test Method and NAAQM Standard for Ambient Air Quality Monitoring					
Parameter	Method Reference	NAAQM Standard			
Particulate Matter size less than 10 microns (PM10)	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100			
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines VolI	60			
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80			
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80			
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0			
Mercury (Hg)	EPA Method IO-5				

TEST REPORT								
Date of Sampling	PM ₁₀ µg/m³	PM _{2.5} μg/m ³	SO₂ µg/m³	NO ₂ μg/m³	CO* mg/m³	Hg ng/m³		
03.07.2020	46	28	10	26	1.4	N.D.		
06.07.2020	48	25	08	24	1.2	N.D.		
10.07.2020	42	22	13	28	1.8	N.D.		
15.07.2020	54	24	16	22	1.2	N.D.		
18.07.2020	46	32	12	26	1.6	N.D.		
24.07.2020	48	26	08	20	0.8	N.D.		
27.07.2020	52	20	14	24	1.0	N.D.		
29.07.2020	54	24	10	28	1.2	N.D.		

Terms & conditions

The report for publication, arbitration or as legal dispute is forbidden.

Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test

For ULTIMATE ENVIROLYTICAL SOLUTIONS PREPARED BY

AUTHORIZED SIGNATORY of the test report



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer

TO,

HINDALCO INDUSTRIES LIMITED,

KATHAUTIA OPEN CAST COAL MINES,

POST – NAUDIHA, P.S. PANDWA,

DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/0933			
LAB REF NO	UES/20-21/AAQM/1274			
DATE OF SAMPLING	03/07/2020 to 29	/07/2020		
DATE OF RECEIPT	04/07/2020 to 30	/07/2020		
DATE OF REPORT	04/08/2020			
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020		

	STATE OF STA	SAMPLE I	DETAILS		
MONITORING FOR	AMBIENT AIR QUALITY MONITO	ORING	CUSTOMER REI	. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	BATSARA VILLAGE (BUFFER ZO)	NE)		With the second	
DURATION OF SAMPLING	24 HOURS SAMPLE COLLECTED BY LABORATORY CHE			HEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 N SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.				namet industrial and

Test Method and NAAQM Standard for Ambient Air Quality Monitoring					
Parameter	Method Reference	NAAQM Standard			
Particulate Matter size less than 10 microns (PM_{10})	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100			
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines VolI	60			
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80			
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80			
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0			
Mercury (Hg)	EPA Method IO-5				

TEST REPORT								
Date of Sampling	PM ₁₀ µg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m ³	NO ₂ μg/m ³	CO* mg/m³	Hg ng/m³		
03.07.2020	58	30	16	22	1.3	N.D.		
06.07.2020	52	26	12	28	1.6	N.D.		
10.07.2020	60	22	08	22	1.2	N.D.		
15.07.2020	52	28	12	26	1.4	N.D.		
18.07.2020	58	22	14	22	1.0	N.D.		
24.07.2020	54	26	08	24	1.4	N.D.		
27.07.2020	52	34	12	22	1.2	N.D.		
29.07.2020	56	24	08	20	1.6	N.D.		

Terms & conditions

The report for publication, arbitration or as legal dispute is forbidden ROLY?

Test sample will be retained for 15 days after issue of test report white collecting agreed with customer.
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AUTHORIZED SIGNATORY

-End of the test report-



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/093	4
LAB REF NO	UES/20-21/AAQM/1	275
DATE OF SAMPLING	03/07/2020 to 29	/07/2020
DATE OF RECEIPT	04/07/2020 to 30	/07/2020
DATE OF REPORT	04/08/2020	
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020

	SZ	AMPLE DETAILS		
MONITORING FOR	AMBIENT AIR QUALITY MONITO	RING CUSTOMER RE	F. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	SIKKA VILLAGE (BUFFER ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY C	HEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO SO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.	- *		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring					
Parameter	Method Reference	NAAQM Standard			
Particulate Matter size less than 10 microns (PM10)	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100			
Particulate Matter size less than 2.5 microns (PM _{2,5})	CPCB Guidelines VolI	60			
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80			
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80			
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0			
Mercury (Hg)	EPA Method IO-5				

TEST REPORT									
Date of Sampling		NO ₂ μg/m³	CO* mg/m³	Hg ng/m³					
03.07.2020	64	34	14	28	1.0	N.D.			
06.07.2020	54	30	12	22	1.6	N.D.			
10.07.2020	58	28	08	20	1.4	N.D.			
15.07.2020	66	24	16	28	1.2	N.D.			
18.07.2020	42	22	12	26	1.8	N.D.			
24.07.2020	58	28	10	22	1.2	N.D.			
27.07.2020	55	26	16	30	1.6	N.D.			
29.07.2020	58	22	08	22	1.4	N.D.			

Terms & conditions

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AUTHORIZED SIGNATORY

End of the test report-



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer
TO,
HINDALCO INDUSTRIES LIMITED,
KATHAUTIA OPEN CAST COAL MINES,
POST – NAUDIHA, P.S. PANDWA,
DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/093	35
LAB REF NO	UES/20-21/AAQM/1	.276
DATE OF SAMPLING	03/07/2020 to 29	/07/2020
DATE OF RECEIPT	04/07/2020 to 30	/07/2020
DATE OF REPORT	04/08/2020	
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020

		SAMPLE	DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONIT	CORING	CUSTOMER REI	F. NO.	& DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	MINES OFFICE NEAR VTC (CO	RE ZONE)				
DURATION OF SAMPLING	24 HOURS	SAMPLE	COLLECTED BY	LABOR	ATORY C	HEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				MINIONAL III JAWA JAWA JAWA JAWA JAWA JAWA JAWA	
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 N SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.					

Test Method and NAAQM Standard for Ambient Air Quality Monitoring					
Parameter	Method Reference	NAAQM Standard			
Particulate Matter size less than 10 microns (PM10)	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100			
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines VolI	60			
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80			
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80			
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0			
Mercury (Hg)	EPA Method IO-5				

TEST REPORT								
Date of Sampling	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ µg/m³	NO₂ µg/m³	CO* mg/m³	Hg ng/m³		
03.07.2020	52	28	10	28	1.6	N.D.		
06.07.2020	56	26	16	26	1.8	N.D.		
10.07.2020	62	20	12	24	1.2	N.D.		
15.07.2020	60	26	18	20	1.8	N.D.		
18.07.2020	52	28	12	26	1.4	N.D.		
24.07.2020	66	26	10	20	1.1	N.D.		
27.07.2020	60	22	15	24	1.8	N.D.		
29.07.2020	42	24	16	28	1.2	N.D.		

marks: * Duration of sampling for CO - 1 Hour, N.D. - Not Detected

Terms & conditions

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- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.

This is for information as the party has asked for above test (\$100)

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer
TO,
HINDALCO INDUSTRIES LIMITED,
KATHAUTIA OPEN CAST COAL MINES,
POST – NAUDIHA, P.S. PANDWA,
DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/093	· 6
LAB REF NO	UES/20-21/AAQM/1	.277
DATE OF SAMPLING	03/07/2020 to 29	/07/2020
DATE OF RECEIPT	04/07/2020 to 30	/07/2020
DATE OF REPORT	04/08/2020	
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020

		SAMPLE I	ETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONIT	ORING	CUSTOMER REP	F. NO. &	DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	NEAR MAIN GATE (CORE ZONE)		***************************************			
DURATION OF SAMPLING	24 HOURS	SAMPLE (COLLECTED BY	LABORA	TORY C	HEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			•		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 N SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.				NO.	

appendix of the second	AQM Standard for Ambient Air Quality Mo	NAAQM
Parameter	Method Reference	Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100
Particulate Matter size less than 2.5 microns (PM _{2,5})	CPCB Guidelines VolI	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0
Mercury (Hg)	EPA Method IO-5	

TEST REPORT							
Date of Sampling		SO₂ μg/m³	NO ₂ μg/m³	CO* mg/m³	Hg ng/m ³		
03.07.2020	52	28	08	26	1.0	N.D.	
06.07.2020	46	26	12	22	1.8	N.D.	
10.07.2020	58	28	08	30	1.2	N.D.	
15.07.2020	50	24	18	26	1.2	N.D.	
18.07.2020	52	26	14	22	1.8	N.D.	
24.07.2020	62	24	06	26	1.6	N.D.	
27.07.2020	38	28	08	22	1.2	N.D.	
29.07.2020	47	22	10	28	1.0	N.D.	

Terms & conditions

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer

This is for information as the party has asked for above lost

PREPARED BY OU 108/2020

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

End of the test report--



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer

TO,

HINDALCO INDUSTRIES LIMITED,

KATHAUTIA OPEN CAST COAL MINES,

POST – NAUDIHA, P.S. PANDWA,

DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/093	7			
LAB REF NO	UES/20-21/AAQM/1278				
DATE OF SAMPLING	03/07/2020 to 29	/07/2020			
DATE OF RECEIPT	04/07/2020 to 30	/07/2020			
DATE OF REPORT	04/08/2020				
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020			

SAMPLE DETAILS							
MONITORING FOR	AMBIENT AIR QUALITY MONIT	ORING	CUSTOMER REI	F. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020		
SAMPLING LOCATION	NEAR DG STACK(CORE ZONE)						
DURATION OF SAMPLING	24 HOURS	24 HOURS SAMPLE COLLECTED BY LABORATORY CH					
SAMPLING PROCEDURE	AS PER METHOD REFERENCE						
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.						

Test Method and NAAQM Standard for Ambient Air Quality Monitoring							
Parameter	Parameter Method Reference						
Particulate Matter size less than 10 microns (PM10)	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	Standard 100					
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines VolI	60					
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80					
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80					
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0					
Mercury (Hg)	EPA Method IO-5						

TEST REPORT								
Date of Sampling	PM ₁₀ µg/m³	PM _{2.5} μg/m ³	SO₂ µg/m³	NO₂ µg/m³	CO* mg/m³	Hg ng/m³		
03.07.2020	56	28	10	22	1.2	N.D.		
06.07.2020	44	22	14	28	1.6	N.D.		
10.07.2020	56	26	12	24	1.1	N.D.		
15.07.2020	50	24	18	22	1.8	N.D.		
18.07.2020	58	28	14	24	1.4	N.D.		
24.07.2020	42	20	10	28	1.2	N.D.		
27.07.2020	58	30	16	22	1.1	N.D.		
29.07.2020	46	26	12	22	1.0	N.D.		

Terms & conditions

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Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer

This is for information as the party has asked for above testing

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End of the test report-

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY



Recognized by Ministry of Environment Forest and Climate Change under EP act 1986

Name & Address Of The Customer

TO,

HINDALCO INDUSTRIES LIMITED,

KATHAUTIA OPEN CAST COAL MINES,

POST – NAUDIHA, P.S. PANDWA,

DALTONGANJ, DISTT.- PALAMU (JH)

REPORT NO	UES/TR/20-21/0938				
LAB REF NO	UES/20-21/AAQM/1279				
DATE OF SAMPLING	03/07/2020 to 29	/07/2020			
DATE OF RECEIPT	04/07/2020 to 30/07/2020				
DATE OF REPORT	04/08/2020				
DATE OF ANALYSIS	START: 31/07/2020	END: 04/08/2020			

SAMPLE DETAILS								
MONITORING FOR	AMBIENT AIR QUALITY MONI	TORING	CUSTOMER RE	F. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020			
SAMPLING LOCATION	NEAR SUBSTATION(CORE ZONE)							
DURATION OF SAMPLING	24 HOURS	HOURS SAMPLE COLLECTED BY LABORATORY CHEMIST						
SAMPLING PROCEDURE	AS PER METHOD REFERENCE							
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.							

Test Method and NAAQM Standard for Ambient Air Quality Monitoring						
Parameter	Method Reference	NAAQM Standard				
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	100				
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines VolI	60				
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80				
Nitrogen Dioxide (NO2)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80				
Carbon Monoxide (CO)*	IS 5182(Part 10):1999, RA 2003	4.0				
Mercury (Hg)	EPA Method IO-5					

TEST REPORT								
Date of Sampling	PM ₁₀ µg/m³	PM _{2.5} μg/m ³	SO ₂ μg/m ³	NO ₂ μg/m³	CO* mg/m³	Hg ng/m³		
03.07.2020	58	24	08	28	1.4	N.D.		
06.07.2020	50	28	12	26	1.8	N.D.		
10.07.2020	64	22	16	32	1.2	N.D.		
15.07.2020	54	32	10	26	1.6	N.D.		
18.07.2020	58	24	18	22	1.8	N.D.		
24.07.2020	46	28	06	28	1.2	N.D.		
27.07.2020	54	26	08	: 20	1.1	N.D.		
29.07.2020	48	20	12	24	1.6	N.D.		

Terms & conditions

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This is for information as the party has asked for above test(s) only,

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End of the test report

For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY



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Name & Address Of The Custon	ner	REPORT NO	UES/TR/20-21/0939				
To,		LAB REF NO		UES/20-21/FE/1280			
HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT		3/07/2020			
				26/07/2020 04/08/2020			
							DATE OF ANALYSIS
				SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/ DATED: 16/07/2	•		
SAMPLING LOCATION	MINING PHASE PIT "A"				nomina *:		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST			•		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE						
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	GMF FILTER PAPER (8 X 10 INCH): 1X1 NO.					

		TES	T REPOR		
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	µg/m³	364	500	EPA Method IO-2.1

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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Name & Address Of The Custon	ner	REPORT NO	UES/TR/20-21/0940				
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		LAB REF NO	UES/20-21/FE/1281				
		DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT		23/07/2020 26/07/2020			
				DATE OF ANALYSIS	START: 26/07/2		END: 03/08/2020
				SAMPLE DETAILS			机铁铁铁矿 18
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/ DATED: 16/07/2			
SAMPLING LOCATION	PIT "B"	900 - 1 3000 - 1000 -	······································				
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE	AS PER METHOD REFERENCE					
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.					

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE				
1,	Total Suspended Particulate Matter (as SPM)	μg/m³	322	500	EPA Method IO-2.1				

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT NO	UES/TR/20-21/0941				
		LAB REF NO		UES/20-21/FE/1283			
		DATE OF SAMPLING	23/	/07/2020			
		DATE OF RECEIPT DATE OF REPORT		26/07/2020 04/08/2020			
							DATE OF ANALYSIS
				SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/ DATED: 16/07/2			
SAMPLING LOCATION	PIT "C"			William Commission Commission Commission Commission Commission Commission Commission Commission Commission Com	ininin		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST			? .		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		- Koyanan		2		
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.		Harris and the same of the sam	udiformational desired and a second of the s		

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE				
1	Total Suspended Particulate Matter (as SPM)	µg/m³	388	500	EPA Method IO-2.1				

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT NO		UES/TR/20-21/0942			
		LAB REF NO	UES/20-21/FE/1284				
		DATE OF SAMPLING	23	/07/2020			
		DATE OF RECEIPT		26/07/2020			
		DATE OF REPORT	04/08/2020				
		DATE OF ANALYSIS	START: 26/07/202		END: 03/08/2020		
		SAMPLE DETAILS					
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020				
SAMPLING LOCATION	DUMP YARD EXTERNAL	***************************************					
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST					
SAMPLING PROCEDURE	AS PER METHOD REFERENCE						
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.					

TEST REPORT							
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE		
1	Total Suspended Particulate Matter (as SPM)	µg/m³	346	500	EPA Method IO-2.1		

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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				26/07/2020 04/08/2020			
							DATE OF ANALYSIS
				SAMPLE DETAILS	100		
		MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/ DATED: 16/07/2	
SAMPLING LOCATION	COAL STOCK YARD	**************************************		THE PARTY OF THE P	nonendinolina (m. 1900)		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST		1.			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		- L				
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.			(10)		

		TES	T REPOR		
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	µg/m³	308	500	EPA Method IO-2.1

Note: All results are on the basis of 24 hour sampling.

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To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT NO LAB REF NO		UES/TR/20-21/0944 UES/20-21/FE/1286			
		DATE OF RECEIPT DATE OF REPORT		26/07/2020 04/08/2020			
							DATE OF ANALYSIS
				SAMPLE DETAILS		PROX PARAME	4948 FEBRURY - 1
		MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020		
SAMPLING LOCATION	HAUL ROAD						
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST					
SAMPLING PROCEDURE	AS PER METHOD REFERENCE				MININE TO THE PROPERTY OF THE		
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.					

	TEST REPORT									
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE					
1	Total Suspended Particulate Matter (as SPM)	µg/m³	338	500	EPA Method IO-2.1					

Note: All results are on the basis of 24 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT NO LAB REF NO		UES/TR/20-21/0945 UES/20-21/FE/1287			
		DATE OF RECEIPT	26/07/2020 04/08/2020				
		DATE OF REPORT					
		DATE OF ANALYSIS	START: 26/07/202		END: 03/08/2020		
				SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/ DATED: 16/07/2			
SAMPLING LOCATION	RAJHARA RAILWAY SIDEING	6			months and the second s		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	SAMPLE COLLECTED BY LABORATORY CHEMIST		1		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE	AS PER METHOD REFERENCE					
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.	***************************************				

	TEST REPORT									
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE					
1	Total Suspended Particulate Matter (as SPM)	μg/m³	342	500	EPA Method IO-2.1					

Note: All results are on the basis of 24 hour sampling.

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Name & Address Of The Customer To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT NO	UES/TR/20-21/0946 UES/20-21/FE/1288				
		LAB REF NO					
		DATE OF SAMPLING	23/07/2020				
		DATE OF RECEIPT	26/07/2020 04/08/2020				
		DATE OF REPORT					
		DATE OF ANALYSIS	START: 26/07/2020	END: 03/08/2020			
		SAMPLE DETAILS					
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021 DATED: 16/07/				
SAMPLING LOCATION	TRUCK PARKING ZONE						
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE	AS PER METHOD REFERENCE					
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.		undámentus a subjunta a distributo de la constante de la const			

TEST REPORT								
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE			
1	Total Suspended Particulate Matter (as SPM)	µg/m³ .	364	500	EPA Method IO-2.1			

Note: All results are on the basis of 24 hour sampling.

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Name & Address Of The Customer TO.	REPORT NO	UES/TR/20-21/0947		
HINDALCO INDUSTRIES LIMITED,	LAB REF NO	UES/20-21/N/1289		
KATHAUTIA OPEN CAST COAL MINES,	DATE OF REPORT	04/08/2020		
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)	DATE OF SAMPLING	23/07/2020 to 24/07/2020		
SA	MPLE DETAILS			

SAMPLE DETAILS						
MONITORING FOR	NOISE LEVEL MONITORING					
CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020					
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)					
SAMPLE COLLECTED BY	LABORATORY CHEMIST					
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION					

		EST REP	ORT			
		RES	BULT	LIMIT (INDUSTRIAL ZONE)		
LOCATION	UNIT	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	
Inside Plant				The Control of the Control	70	
MINES OFFICE NEAR VTC	dB(A)	62.2	52.2			
NEAR MAIN GATE	dB(A)	70.6	64.5	75		
NEAR DG STACK	dB(A)	64.2	50.8	/		
NEAR SUBSTATION	dB(A)	68.8	58.6			
		RESULT		LIMIT (RESIDENTIAL ZONE)		
LOCATION	UNIT	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	
Outside Plant			- Control of the Cont	Tabusan are a factor for the factor of the f	45	
R & R COLONY, CHANDAN NAGAR	dB(A)	48.6	42.4			
KATHAUTIYA VILLAGE	dB(A)	50.4	40.6	55		
BATSARA VILLAGE	dB(A)	46.2	38.2			
SIKKA VILLAGE	dB(A)	40.5	36.8			

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to Name & Address Of The Customer		UES/TR/20-21/0948				
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)			UES/20-21/W/1290			
			23/07/2020 26/07/2020			
			rt:26/07/2020	End: 03/08/2020		
			S.	AMPLE DETAILS		
1. Near Workshop 2. Sump Water Pit-D	Customer Ref. No. & Date					
Effluent Water	Sample Condition At Receipt	Ok				
Packing Of Sample Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)			Laboratory Chemist			
Sealed	Quantity Received		Approx. 4Ltr.			
	RIES LIMITED, CAST COAL MINES, P.S. PANDWA, IT PALAMU (JH) S. 1. Near Workshop 2. Sump Water Pit-D Effluent Water Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)	RIES LIMITED, CAST COAL MINES, P.S. PANDWA, TT PALAMU (JH) Date Of Receipt Date Of Report Date Of Analysis SAMPLE DETAILS 1. Near Workshop 2. Sump Water Pit-D Effluent Water Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1) Sample Collected By	Lab Ref No UES Lab Ref No UES Date Of Sampling 23, Date Of Receipt 26, Date Of Report 04, Date Of Analysis Sta SAMPLE DETAILS 1. Near Workshop 2. Sump Water Pit-D Effluent Water Sample Condition At Receipt Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1) Sample Collected By	Lab Ref No		

REPORT NO. - 0948

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	NEAR WORK SHOP	SUMP WATER PIT-D			
1	Colour	Hazen	APHA 22 nd Ed. 2012,2120-B,2-6	See 6 of Annexure-I	<1	<1			
2	Odour	-	APHA 22 nd Ed. 2012,2120-B,2-6	See 6 of Annexure-I	Agreeable	Agreeable			
3	Temperature	·c	APHA 22 nd Ed.2012,2130-B,2-13	Shall not exceed 5°C above the receiving water temperature	25.2	25.4			
4.	рн	-	APHA 22 nd Ed.2012,4500-H ⁺ - B,4-92	5.5 to 9.0	7.42	7.28			
5	Total Residual Chlorine	mg/L	APHA 22 nd Ed.2012,4500-C1-G, 4 - 69		N.D.	N.D.			
6	Total Suspended Solids	mg/L	mg/L APHA 22 nd Ed.2012,2540- D, 100		22.0	36.0			
7	Dissolved Phosphate (as P)			5.0	N.D.	N.D.			
8	Fluoride (as F)	mg/L	APHA 22 nd Ed.2012,4500-F- B&D,4-84 & 87	2.0	0.2	0.1			
9	Lead (as Pb)	mg/L	APHA 22 nd Ed.2012,3111-B, 3-18	nd Ed.2012,3111-B, 3-		N.D.			
10	Zinc (as Zn)	mg/L	АРНА 22 nd Ed.2012,3111-B, 3- 18	IA 22 nd Ed.2012,3111-B, 3-		0.16			
11	Copper (as Cu)	mg/L	APHA 22 nd Ed.2012,3111-B, 3-18	3.0	N.D.	N.D.			
12	Cadmium (as Cd)	mg/L	APHA 22 nd Ed.2012,3500-Cd, 3-105	2.0	N.D	N.D.			



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REPORT NO. - 0948

	TEST REPORT									
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	NEAR WORK SHOP	SUMP WATER PIT-D				
13	Mercury (as Hg)	mg/L	APHA 22 nd Ed.2012,3112-B, 3-23	0.01	N.D.	N.D.				
14	Arsenic (as As)	mg/L	APHA 22 nd Ed.2012,3114-C, 3-38	0.2	N.D.	N.D.				
15	Selenium (as Se)	mg/L	APHA 22 nd Ed.2012,3114-C, 3-38	0.05	N.D.	N.D.				
16	Total Chromium (as Cr)	mg/L	APHA 22 nd Ed.2012,3500-Cr- B,3-69	2.0	N.D.	N.D.				
17	Chemical Oxygen Demand (COD)	mg/L	APHA 22 nd Ed.2012, 5520-B,5- 17	250	68.0	72.0				
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025(Part 44):1993,RA 2003	30	6.4	8.8				
19	Oil & Grease	mg/L	IS 3025(Part 39):1991,RA 2003,	10.0	N.D.	N.D.				
20	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	IS 3025(Part 43):1992,RA 2003	1.0	N.D.	N.D.				

Note: mg/lit.: milligram per liter.

REMARKS: RESULTS ARE AS ABOVE

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to Name & Address Of The Cus To,	Report No Lab Ref No		UES/TR/20-21/0949 UES/20-21/W/1291			
	CO INDUSTRIES LIMITED, Date Of Sampling		23/07/2020			
KATHAUTIA OPEN	Date Of Receipt	26/07	26/07/2020 04/08/2020			
POST - NAUDIHA, P.S. PANDWA,		Date Of Report			04/08	
DALTONGANJ, DIS	Date Of Analysis	Start: 26/07/2020 End: 03/		End: 03/08/2020		
	SA	MPLE DETAILS				
Sampling Location	1. SECURITY BAIRCK Location 2. SIKKS VILLAGE 3. BATSARA VILLAGE Date		K/PO/SRV/2021/0033 DATED: 16/07/2020			
Monitoring For Piezometer Ground Water Depth		Sample Condition At Receipt	Ok	c		
Sample Collected By	Laboratory Chemist					

	TEST REPORT								
SR. NO.	LOCATION	LATITUDE	LONGITUDE	UNIT	RESULT (DEPTH/BELOW GROUND WATER LEVEL)				
1	NEAR SECURITY BARRAK	24°01′10.28″N	84°05′18.88″E	METER	6.1				
2	NEAR SIKKA VILLAGE	24°06′54.88″N	84°05′34.33″E	METER	12.1				
3	NEAR BATSARA VILLAGE	24°06′52.49″N	84°05′41.49″E	METER	11.6				

Note: BGWL - Below Ground Water Level.

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