

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 LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS		UES/TR/21-22/07867 UES/21-22/AAQM/012820-012826 01/02/2022 to 25/02/2022 02/02/2022 to 26/02/2022 03/03/2022		
ZAZI GROARO, DIO	START: 03/02/2022			END: 03/03/2022 .		
		SAMPLE D	ETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MON	ITORING			/SRV/2122/0058, :30-SEP-2021	
SAMPLING LOCATION	R & R COLONY, CHANDAN N	AGAR (BUFFE	R ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE (COLLECTED BY	BY LABORATORY CHEMIST		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		200	L		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTT RUBBER BLADDER: 1X1 NO.	NO., FILTE	ER PAPER (PM _{2.1})MLX1 NO. PVC	s): 1X1 NO. BOTTLE		

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})	CPCBGuidelines 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	4.0			

TEST REPORT						
Date of Sampling	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m ³	NO ₂ μg/m³	CO* mg/m³	Hg ng/m ³
01.02.2022	78	22	10	26	0.7	N.D.
04.02.2022	74	28	16	22	0.9	N.D.
07.02.2022	62	22	08	24	1.2	N.D.
11.02.2022	80	30	12	28	0.9	N.D.
14.02.2022	68	28	10	20	0.2	
18.02.2022	82	22	18	26	0.8	N.D.
21.02.2022	78	26	12	22		N.D.
25.02.2022	70	28	16	28	1.4	N.D.

Terms & conditions

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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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/21-22/007	7868
LAB REF NO	UES/21-22/AAQM/0	12827-012834
DATE OF SAMPLING	01/02/2022 to 25	5/02/2022
DATE OF RECEIPT	02/02/2022 to 26	5/02/2022
DATE OF REPORT	03/03/2022	
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022

	S.	AMPLE	DETAILS			END: 03/03/2022
MONITORING FOR	AMBIENT AIR QUALITY MONITO	A CONTRACTOR OF THE PROPERTY OF	CUSTOMER RE	F. NO. & DATE		/SRV/2122/0058
SAMPLING LOCATION	KATHAUTIYA VILLAGE (BUFFER	ZONE)			J	
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY			HEMIST	1
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			I		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.)., FILT., NO ₂ : 3	ER PAPER (PM _{2.} OMLX1 NO. PVC	b): 1X1 NO. BOTTLE		

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})	CPCBGuidelines 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	РМ _{2.5} µg/m ³	SO ₂ µg/m³	NO₂ µg/m³	CO* mg/m³	Hg ng/m ³
01.02.2022	72	20	16	20	0.7	N.D.
04.02.2022	68	24	12	24	0.6	
07.02.2022	70	28	10	26	0.8	N.D.
11.02.2022	68	30	18	28		N.D.
14.02.2022	72	36	10		0.8	N.D.
18.02.2022	78			20	0.4	N.D.
21.02.2022		32	18	26	0.8	N.D.
	64	26	16	28	0.6	N.D.
25.02.2022	60	28	12	30	0.2	N.D.

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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/21-22/078	169
LAB REF NO	UES/21-22/AAQM/0	12835-012842
DATE OF SAMPLING	01/02/2022 to 25	/02/2022
DATE OF RECEIPT	02/02/2022 to 26	/02/2022
DATE OF REPORT	03/03/2022	
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022

			DIMIT. 03/02/	2022	END: 03/03/2022	
		SAMPLE	DETAILS	36.		LANGE TO STATE OF STREET
MONITORING FOR	AMBIENT AIR QUALITY MONITORING		CUSTOMER REF. NO. & DATE		K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	BATSARA VILLAGE (BUFFER ZO	ONE)			·	
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 i SO ₂ : 30MLX1 NO. PVC BOTTL RUBBER BLADDER: 1X1 NO.	NO., $FILT$ E, NO_2 : 3	ER PAPER (PM _{2.1} OMLX1 NO. PVC	5): 1X1 NO. BOTTLE		

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})	CPCBGuidelines 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	РМ _{2.5} µg/m ³	SO ₂ µg/m³	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³
01.02.2022	70	28	14	26	1.1	N.D.
04.02.2022	74	22	12	22	1.0	N.D.
07.02.2022	62	34	10	28	0.8	N.D.
11.02.2022	78	28	18 .	20	0.6	N.D.
14.02.2022	66	26	08	26	0.4	N.D.
18.02.2022	58	32	06	28	0.8	N.D.
21.02.2022	60	28	12	22	0.6	N.D.
25.02.2022	72	38	16	26	0.2	N.D.

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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/21-22/078	370
LAB REF NO	UES/21-22/AAQM/0	12843-012850
DATE OF SAMPLING	01/02/2022 to 25	5/02/2022
DATE OF RECEIPT	02/02/2022 to 26	3/02/2022 .
DATE OF REPORT	03/03/2022	
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022

			SA COLONIA CARROLLA C		LUZZ	END. 03/03/2022
		SAMPLE	DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONIT	ORING	CUSTOMER RE	F. NO. & DATE	The second second	D/SRV/2122/0058
SAMPLING LOCATION	SIKKA VILLAGE (BUFFER ZONE	2)				DEF 2021
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY		LABORATORY CH	CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE	-		L		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 N SO ₂ : 30MLX1 NO. PVC BOTTLE RUBBER BLADDER: 1X1 NO.	IO., FILT E, NO₂: 3	ER PAPER (PM _{2.} OMLX1 NO. PVC	5): 1X1 NO. BOTTLE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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})	CPCBGuidelines 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	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³
01.02.2022	78	28	14	26	1.2	N.D.
04.02.2022	82	24	18	20	0.8	N.D.
07.02.2022 .	76	28	10	28	0.6	
11.02.2022	68	26	14	22	0.2	N.D.
14.02.2022	72	36	06	26	1.8	N.D.
18.02.2022	68	22	18	22		N.D.
21.02.2022	54	28	12		1.4	N.D.
25.02.2022	68			24	0.6	N.D.
Remarks: * Dura		22	16	28	0.9	N.D.

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REPORT NO	UES/TR/21-22/07871		
LAB REF NO	UES/21-22/AAQM/0	12859-012866	
DATE OF SAMPLING	01/02/2022 to 25	6/02/2022	
DATE OF RECEIPT	02/02/2022 to 26	3/02/2022	
DATE OF REPORT	03/03/2022		
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022	

		SAMPLE	DETAILS		
MONITORING FOR	AMBIENT AIR QUALITY MONI	TORING	CUSTOMER RE	F. NO. & DATE	K/PO/SRV/2122/0058 DATE:30-SEP-2021
SAMPLING LOCATION	NEAR MAIN GATE (CORE ZONE)			I
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY C		HEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			4	
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTTI 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})	CPCBGuidelines 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
01.02.2022	74	20	16	24	0.8	N.D.
04.02.2022	66	24	18	20	0.4	N.D.
07.02.2022	72	38	12	28	1.6	N.D.
11.02.2022	68	32	18	22	1.5	N.D.
14.02.2022	64	26	12	26	0.7	N.D.
18.02.2022	70	30	14	20	1.6	N.D.
21.02.2022	64	28	10	24	1.2	N.D.
25.02.2022	78	32	12	28	0.7	N.D.

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REPORT NO	UES/TR/21-22/078	371
LAB REF NO	UES/21-22/AAQM/0)12851-012858
DATE OF SAMPLING	01/02/2022 to 25	5/02/2022
DATE OF RECEIPT	02/02/2022 to 26	5/02/2022
DATE OF REPORT	03/03/2022	
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022

	S	AMPLE 1	DETAILS	100			
MONITORING FOR	AMBIENT AIR QUALITY MONITO	ORING	CUSTOMER RE	F. NO. & L	AIR	/PO/SRV/2122/0058 ATE:30-SEP-2021	
SAMPLING LOCATION	MINES OFFICE NEAR VTC (CO	RE ZONE)					
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY C		RY CHEM	CHEMIST		
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.	O., FILT I, NO ₂ : 3	ER PAPER (PM _{2.} OMLX1 NO. PVC	BOTTLE	•		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring					
Parameter	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})	CPCBGuidelines 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/m ³	NO ₂ μg/m³	CO* mg/m³	Hg ng/m ³
01.02.2022	74	34	16	22	1.2	N.D.
04.02.2022	72	26	10	26	0.9	N.D.
07.02.2022	68	32	14	28	1.2	N.D.
11.02.2022	76	38	12	22	1.0	N.D.
14.02.2022	52	28	18	26	0.8	·····
18.02.2022	68	32	12	20	1.2	N.D.
21.02.2022	74	38	14	22	0.8	N.D.
25.02.2022	. 82	30	10	28	1.2	N.D.

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REPORT NO	UES/TR/21-22/078	173
LAB REF NO	UES/21-22/AAQM/0	12867-012874
DATE OF SAMPLING	01/02/2022 to 25	/02/2022
DATE OF RECEIPT	02/02/2022 to 26	/02/2022
DATE OF REPORT	03/03/2022	
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022

				JIII(1:03/02/	2022	END. 03/03/2022
		SAMPLE	DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING		CUSTOMER REF. NO. & DATE		K/PO/SRV/2122/0058 DATE:30-SEP-2021	
SAMPLING LOCATION	NEAR DG STACK (CORE ZONE)				.1	
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY		LABORATORY CHEMIST		•
SAMPLING PROCEDURE	AS PER METHOD REFERENCE					
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTT: RUBBER BLADDER: 1X1 NO.	NO., FILT LE, NO ₂ : 3	TER PAPER (PM _{2.} OMLX1 NO. PVC	5): 1X1 NO. BOTTLE	***************************************	

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})	CPCBGuidelines 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	РМ _{2.5} µg/m³	SO ₂ µg/m³	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³		
01.02.2022	78	27	10	22	1.0	N.D.		
04.02.2022	68	22	16	26	0.6	N.D.		
07.02.2022	62	20	12	20	1.8	N.D.		
11.02.2022	76	28	18	28	0.8	N.D.		
14.02.2022	60	22	14	22	1.6	N.D.		
18.02.2022	68	26	12	28	0.8	N.D.		
21.02.2022	54	20	10	36	0.6	N.D.		
25.02.2022	68	28	18	32	0.5	N.D.		

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REPORT NO	UES/TR/21-22/07874					
LAB REF NO	UES/21-22/AAQM/0)12875-012882				
DATE OF SAMPLING	01/02/2022 to 25					
DATE OF RECEIPT	02/02/2022 to 26					
DATE OF REPORT	03/03/2022					
DATE OF ANALYSIS	START: 03/02/2022	END: 03/03/2022 ·				

		SAMPLE	DETAILS	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	LUZZ	END: 03/03/2022
MONITORING FOR	AMBIENT AIR QUALITY MO.	NITORING	CUSTOMER RE	F. NO. & DATE		/SRV/2122/0058
SAMPLING LOCATION	NEAR SUBSTATION (CORE Z	ONE)	_L		DATE:	30-SEP-2021
DURATION OF SAMPLING	24 HOURS	an		LABORATORY C	UEMT OF	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE					
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X SO ₂ : 30MLX1 NO. PVC BOI RUBBER BLADDER: 1X1 NO.	TLE, NO: 3	TER PAPER (PM ₂ BOMLX1 NO. PVC	5): 1X1 NO. BOTTLE		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring							
Parameter	Method Reference	NAAQM					
Particulate Matter size less than 10 microns (PM_{10})	IS 5182 (Part 23): 2006 & CPCB Guidelines VolI	Standard 100					
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCBGuidelines VolI	60					
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines VolI	80					
Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 & CPCB Guidelines VolI	80					
Carbon Monoxide (CO)* Mercury (Hg)	IS 5182(Part 10):1999, RA 2003 EPA Method IO-5	4.0					
	ETA MECHOO 10-5						

TEST REPORT								
Date of Sampling	PM ₁₀ μg/m ³	PM _{2.5} μg/m ³	SO ₂ μg/m³	NO ₂ µg/m³	CO* mg/m³	Hg		
01.02.2022	86	20	14	22		ng/m		
04.02.2022	72	34	16		0.7	N.D.		
07.02.2022	78	28		28	0.5	N.D.		
11.02.2022	74		12	25	0.9	N.D.		
14.02.2022	66	22	18	20	0.6	N.D.		
18.02.2022		36	12	22	1.1	N.D.		
	82	32	18	28	0.7			
21.02.2022	78	38	10	22		N.D.		
25.02.2022	68	32	18		0.5	N.D.		
Remarks: * Durat		52	10	26	0.6	N.D.		

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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/07875			
То,		LAB REF NO	UES/21-22/FE/012	883		
HINDALCO INDUST		DATE OF SAMPLING	11/02/2022			
KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		DATE OF RECEIPT	DATE OF RECEIPT 12/02/2022 DATE OF REPORT 18/02/2022			
		DATE OF REPORT				
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022		
		SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/ DATE:30-SEP-20			
SAMPLING LOCATION	MINING PHASE PIT "A"					
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST				
SAMPLING PROCEDURE.	AS PER METHOD REFERENCE		1			
SAMPLE OUANTITY/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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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/07876			
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		LAB REF NO	UES	3/21-22/FE/012	884	
		DATE OF SAMPLING	11/	02/2022		
		DATE OF RECEIPT		02/2022		
		DATE OF REPORT	18/02/2022			
		DATE OF ANALYSIS	START: 12/02/2022		END:18/02/2022	
	5-97-240-27-32	SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & K/PO/SRV/2122/0058 DATE DATE: 30-SEP-2021				
SAMPLING LOCATION	PIT "B"					
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.			an angga antarambana anga 170 mil 24 2 mil 1924 mil 1927 mil	

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE				
1	Total Suspended Particulate Matter (as SPM)	μg/m³	296	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/21-22/07877 UES/21-22/FE/012885			
		DATE OF SAMPLING	11,	/02/2022			
		DATE OF REPORT 1		12/02/2022			
				18/02/2022			
				RT: 12/02/2022	END:18/02/2022		
		SAMPLE DETAILS		10 TO 10			
MONITORING FOR	WORK ZONE MONITORING			K/PO/SRV/2122/ DATE: 30-SEP-20			
SAMPLING LOCATION	PIT "C"	***************************************					
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		.L				
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	436	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		REPORT NO		UES/TR/21-22/07878			
To,	LAB REF NO	UES/21-22/FE/012886					
HINDALCO INDUST		DATE OF SAMPLING	11,	/02/2022			
KATHAUTIA OPEN	DATE OF RECEIPT DATE OF REPORT		12/02/2022 18/02/2022				
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)							
		DATE OF ANALYSIS	STA	ART: 12/02/2022	END: 18/02/2022		
		SAMPLE DETAILS					
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2122/ DATE:30-SEP-20			
SAMPLING LOCATION	DUMP YARD EXTERNAL						
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST					
SAMPLING PROCEDURE	AS PER METHOD REFERENCE	k	-				
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	410	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		REPORT NO LAB REF NO		UES/TR/21-22/07879 UES/21-22/FE/012887			
To,							
HINDALCO INDUST	70 M 10 M	DATE OF SAMPLING	11	/02/2022			
KATHAUTIA OPEN	DATE OF RECEIPT DATE OF REPORT		12/02/2022 18/02/2022				
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)							
		DATE OF ANALYSIS	START: 12/02/20.		END: 18/02/2022		
		SAMPLE DETAILS					
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE:30-SEP-2021				
SAMPLING LOCATION	COAL STOCK YARD			·			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE						
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 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	462	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 LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT	UES/TR/21-22/07880 UES/21-22/FE/012888 11/02/2022 12/02/2022 18/02/2022			
		DATE OF ANALYSIS SAMPLE DETAILS	START: 12/02/2022	END: 18/02/2022		
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. &	& K/PO/SRV/2122/0058 DATE:30-SEP-2021			
SAMPLING LOCATION	HAUL ROAD					
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		1			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	GMF FILTER PAPER (8 X 10 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	384	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 Custon	ser	REPORT NO	UES/TR/21-22/07881 UES/21-22/FE/012889		
To,		LAB REF NO			
HINDALCO INDUST	PUDANT SEE THE STREET SOURCE SEE SEE	DATE OF SAMPLING	11/02/2022		
	CAST COAL MINES,	DATE OF RECEIPT	12/02/2022		
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		DATE OF REPORT	DATE OF REPORT 18/02/2022		
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022	
		SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122 DATE: 30-SEP-2		
SAMPLING LOCATION	RAJHARA RAILWAY SIDEING		-1		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	BY LABORATORY CHEMIST		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		.1		
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	462	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/21-22/07882		
HINDALCO INDUST	TRIES I IMITED	LAB REF NO	UE	S/21-22/FE/012	2890	
KATHAUTIA OPEN	DATE OF SAMPLING	11	/02/2022			
POST - NAUDIHA,	DATE OF RECEIPT DATE OF REPORT		12/02/2022			
DALTONGANJ, DISTT PALAMU (JH)			18/02/2022			
		DATE OF ANALYSIS	ST	ART: 12/02/2022	END: 18/02/2022	
		SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. &		K/PO/SRV/2122/ DATE: 30-SEP-20	0058	
SAMPLING LOCATION	TRUCK PARKING ZONE				21	
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	328	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/21-22/07883 LAB REF NO UES/21-22/N/012891-01289 DATE OF REPORT 18/02/2022 DATE OF SAMPLING 11/02/2022 to 12/02/2022					
		SAMPLE DETAILS					
MONITORING FOR	NOISE LEVEL MONITORING						
CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058, DATE	:30-SEP-2021					
SAMPLING LOCATION	INSIDE COAL MINE & OUTSI	DE COAL MINE (AS DESCRIE	BED BELOW)				
SAMPLE COLLECTED BY	LABORATORY CHEMIST	LABORATORY CHEMIST					
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION						

	T	ST REP	ORT			
	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)		
LOCATION .		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	
Inside Plant						
MINES OFFICE NEAR VTC	dB(A)	68.6	58.4		70	
NEAR MAIN GATE	dB(A)	66.8	50.2	75		
NEAR DG STACK	dB(A)	72.2	56.8			
NEAR SUBSTATION	dB(A)	58.8	48.5			
	RESULT		LIMIT (RESIDENTIAL ZONE)			
LOCATION	UNIT	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	
Outside Plant						
R & R COLONY, CHANDAN NAGAR	dB(A)	54.8	36.8			
KATHAUTIYA VILLAGE	dB(A)	50.2	32.2	55	45	
BATSARA VILLAGE	dB(A)	48.5	38.6			
SIKKA VILLAGE	dB(A)	46.8	34.5			

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to Name & Address Of The Customer To, HINDALCO INDUSTRIES LIMITED,		LAB REF NO UES DATE OF SAMPLING 11/ DATE OF RECEIPT 12/		UES/TR/21-22/07884 UES/21-22/W/012899-13000 11/02/2022 12/02/2022 18/02/2022		
KATHAUTIA OP						
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)						
		DATE OF ANALYSIS	START: 12/02/2022		END: 18/02/2022	
- 11 1 1 1 1 1 ×		SAMPLE DETAILS				
Customer Sample ID	Sump Water Pit-D Workshop ETP Water	Customer Ref. No. & Dat	e	K/PO/SRV/2122/0058, Date:30-Sep-2021		
Sample Type	Effluent Water	Sample Condition At Rec	eipt	ot Ok		
Packing Of Sample	Jerry Cane (3 ltr.*2) Glass bottle (300 ml.*2)	Sample Collected By		Laboratory Chemist		
Other Details	Sealed	Quantity Received		Approx. 3.3 Ltr.		

REPORT NO.- 07884

TEST REPORT								
SR. NO.	DADAMETED	UNIT METHOD OF TEST		THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	SUMP WATER PIT-D	WORKSHO P ETP WATER		
1	Colour .	Hazen	APHA 22 nd Ed. 2012,2120-B,2-6	See 6 of Annexure-	<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	25.6		
4	рн	-	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92	5.5 to 9.0 7.26		7.43		
5	Total Residual Chlorine	mg/L	APHA 22 nd Ed.2012,4500-C1-G,4-69	1.0	N.D.	N.D.		
6	Total Suspended Solids	mg/L	APHA 22 nd Ed.2012,2540- D, 2-66	100	112.0	134.0		
7	Dissolved Phosphate (as P)	mg/L	APHA 22 nd Ed.2012,4500-P-C, 4- 153	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	0.16	0.11		
9	Lead (as Pb)	mg/L	APHA 22 nd Ed.2012,3111-B, 3-18	0.1	N.D.	N.D.		
10	Zinc (as Zn)	mg/L	АРНА 22 nd Ed.2012,3111-В, 3-18	5.0	0.16	0.12		
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	3-105 2.0		N.D.		
13	Mercury (as Hg)	mg/L	APHA 22 nd Ed.2012,3112-B, 3-23	0.01	N.D.	N.D.		



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REPORT NO.- 07884

TEST REPORT							
SR. NO.	PARAMETER	UNIT METHOD OF TEST		THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	SUMP WATER PIT-D	WORKSHO P ETP WATER	
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	146.0	84.0	
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025(Part 44):1993,RA 2003	30	14.8	12.4	
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.	
21	Total Dissolved Solids (as TDS)	mg/L	IS 3025(part-16):1984, RA 2006	-	262.4	342.8	

Note: mg/lit.: milligram per liter., N.D.: Not Detected

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