

SAMPLING PROCEDURE

QUANTITY/PACKING

SAMPLE

HDD-272, Phase III - Near JP Chowk Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099 Ph: 0771 - 4027777 I Email: ultimatenviro@gmail.com

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

Name & Address Of The Gustomer TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT N		UES/TR/20-21/1186 UES/20-21/AAQM/1526			
		DATE OF	SAMPLING	03/08/2020 to 29/08/2020 04/08/2020 to 30/08/2020			
		DATE OF	RECEIPT				
		DATE OF REPORT DATE OF ANALYSIS		03/09/2020			
				START: 06/08/2020		END: 03/09/2020	
		SAMPLE DI	ETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MON	ITORING	CUSTOMER REF. NO. & DATE			/SRV/2021/0033 D: 16/07/2020	
SAMPLING LOCATION	R & R COLONY, CHANDAN N.	AGAR (BUFFE	R ZONE)		K		
DURATION OF SAMPLING	24 HOURS	SAMPLE C	OLLECTED BY	LABORATORY CH	TEMIST		

FILTER PAPER (PM10): 1X1 NO., FILTER PAPER (PM2.5): 1X1 NO.

SO2: 30MLX1 NO. PVC BOTTLE, NO2: 30MLX1 NO. PVC 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})	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/m ³	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³				
03.08.2020	40	24	08	24	1.2	N.D.				
06.08.2020	38	20	06	20	1.8	N.D.				
10.08.2020	42	22	10	28	1.2	N.D.				
13.08.2020	54	18	12:	26	1.6	N.D.				
17.08.2020	42	26	10	22	1.0	N.D.				
20.08.2020	48	20	14	24	1.4	N.D.				
24.08.2020	42	24	12	20	1.2	N.D.				
29.08.2020	54	28	08	22	0.6	N.D.				

Terms & conditions

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

AS PER METHOD REFERENCE

RUBBER BLADDER: 1X1 NO.

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

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

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End of the test report-



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Name & Address Of The Custon	ser	REPORT I	REPORT NO		UES/TR/20-21/1187			
TO, HINDALCO INDUSTRIES LIMITED,		LAB REF	NO	UES/20-21/AAQM/1527				
		DATE OF	SAMPLING	03/08/2020	to 29	/08/2020		
KATHAUTIA OPEN	DATE OF	RECEIPT	04/08/2020	0 30	/08/2020			
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		DATE OF REPORT DATE OF ANALYSIS		03/09/2020				
				START: 06/08/2020		END: 03/09/2020		
		SAMPLE D	ETAILS					
MONITORING FOR	AMBIENT AIR QUALITY MON	CUSTOMER REI	F. NO. & DATE		/SRV/2021/0033 D: 16/07/2020			
SAMPLING LOCATION	KATHAUTIYA VILLAGE (BUFF)	ER ZONE)		1				
DURATION OF SAMPLING	24 HOURS	SAMPLE C	COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			1				
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTT RUBBER BLADDER: 1X1 NO.					*		

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 (NO ₂)	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/m			
03.08.2020	42	20	12	22	1.6	N.D.			
06.08.2020	46	24	06	20	1.0	N.D.			
10.08.2020	40	20	10,	26	1.4	N.D.			
13.08.2020	52	22	08	20	1.2	N.D.			
17.08.2020	40	30	10 /	22	1.1	N.D.			
20.08.2020	42	24	06	20	0.6	N.D.			
24.08.2020	54	22	10	28	1.6	N.D.			
29.08.2020	50	26	12	22	1.1	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 upless otherwise agreed with customer.

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End of the test report

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TO,		REPORT NO		UES/TR/20-21/1188			
		LAB REF	NO	UES/20-21/AAQM/1528			
HINDALCO INDUST	DATE OF	SAMPLING	03/08/2020	to 29	/08/2020		
KATHAUTIA OPEN	DATE OF	RECEIPT	04/08/2020	to 30	/08/2020		
POST - NAUDIHA, I	DATE OF REPORT DATE OF ANALYSIS		03/09/2020 START:06/08/2020 END:03/09/2020				
DALTONGANJ, DISTT PALAMU (JH)					END: 03/09/2020		
		SAMPLE I	DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MON	ITORING	CUSTOMER REF. NO. & DATE			D/SRV/2021/0033 D: 16/07/2020	
SAMPLING LOCATION	BATSARA VILLAGE (BUFFER	ZONE)	I				
DURATION OF SAMPLING	24 HOURS	SAMPLE (COLLECTED BY	LABORATORY CHEMIST		ŗ	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			4			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTT RUBBER BLADDER: 1X1 NO.						

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 (NO ₂)	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/m ³	NO ₂ μg/m³	CO* mg/m³	Hg ng/m³				
03.08.2020	48	24	10	20	1.1	N.D.				
06.08.2020	42	22	12	18	1.8	N.D.				
10.08.2020	50	26	06.	20	1.4	N.D.				
13.08.2020	42	20	12	26	1.6	N.D.				
17.08.2020	48	24	10:	22	1.0	N.D.				
20.08.2020	44	20	08	26	1.2	N.D.				
24.08.2020	52	30	06	20	1.4	N.D.				
29.08.2020	46	22	08	24	1.0	N.D.				

Terms & conditions

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The report for publication, auditation of as regularity for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after issue of lest report for the sample will be retained for the sample will be retained for 15 days after issue of lest report for the sample will be retained for 15 days after its report for the sample will be retained for 15 days after its report for 15 days after it ise agreed with customer.

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TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA,		REPORT	NO	UES/TR/20-21/1189			
		LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS		UES/20-21/AAQM/1529			
				03/08/2020	to 29	/08/2020	
				04/08/2020 to 30/08/2020			
				03/09/2020 START:06/08/2020 END:03/09/2			
DALTONGANJ, DIS	END: 03/09/2020						
		SAMPLE	DETAILS		OR HOUSe STREET		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING CUSTOM			EF NO E DATE		/SRV/2021/0033 D: 16/07/2020	
SAMPLING LOCATION	SIKKA VILLAGE (BUFFER ZO	NE)					
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.						

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 (NO ₂)	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/m ³	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³				
03.08.2020	54	28	10	20	1.0	N.D.				
06.08.2020	44	22	14	26	1.0	N.D.				
10.08.2020	48	26	08.	22	1.4	N.D.				
13.08.2020	56	20	06	28	1.2	N.D.				
17.08.2020	42	24	12 /	22	1.6	N.D.				
20.08.2020	48	26	08	24	1.0	N.D.				
24.08.2020	45	22	10	28	1.8	N.D.				
29.08.2020	48	20	08	20	1.2	N.D.				

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Name & Address Of The Customer TO,		REPORT	NO	UES/TR/20-21/1190			
		LAB REF NO		UES/20-21/AAQM/1530			
HINDALCO INDUST		DATE OF	SAMPLING	03/08/2020	to 29	0/08/2020	
POST - NAUDIHA, P.S. PANDWA,		DATE OF RECEIPT DATE OF REPORT		04/08/2020 to 30/08/2020			
				03/09/2020			
DALIONGANJ, DIS	DALTONGANJ, DISTT PALAMU (JH)		DATE OF ANALYSIS		START: 06/08/2020		
		SAMPLE I	DETAILS	<u> </u>			
MONITORING FOR	AMBIENT AIR QUALITY MON	ITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/0033 DATED: 16/07/2020		
SAMPLING LOCATION	MINES OFFICE NEAR VTC (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.		The second secon				

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 (NO ₂)	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		
03.08.2020	50	24	12	24	1.4	N.D.		
06.08.2020	54	22	10	20	1.0	N.D.		
10.08.2020	58	26	16,	26	1.8	N.D.		
13.08.2020	52	22	11	20	1.2	N.D.		
17.08.2020	56	20	08/	22	1.6	N.D.		
20.08.2020	60	24	16	24	1.2	N.D.		
24.08.2020	64	28	12	28	1.8	N.D.		
29.08.2020	48	20	14	26	1.0	N.D.		

Terms & conditions

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Test sample will be retained for 15 days after issue of test report unle

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Name & Address Of The Customer TO,		REPORT	NO	UES/TR/20-21/1191			
		LAB REF NO		UES/20-21/AAQM/1531			
HINDALCO INDUST		DATE OF	SAMPLING	03/08/2020	to 29	/08/2020	
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		DATE OF RECEIPT DATE OF REPORT DATE OF ANALYSIS		04/08/2020 to 30/08/2020 03/09/2020			
							START: 06/08/2020
						SAMPLE I	DETAILS
MONITORING FOR	AMBIENT AIR QUALITY MON	ITORING	CUSTOMER RE	F. NO. & DATE		D/SRV/2021/0033	
SAMPLING LOCATION	NEAR MAIN GATE (CORE ZON	E)	1				
DURATION OF SAMPLING	24 HOURS	SAMPLE (COLLECTED BY	LABORATORY CH	EMIST	7	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			1			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTT RUBBER BLADDER: 1X1 NO.						

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 (NO ₂)	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/m ³		
03.08.2020	50	22	06	24	1.0	N.D.		
06.08.2020	44	20	10	20	1.4	N.D.		
10.08.2020	56	26	1,6	28	1.2	N.D.		
13.08.2020	46	20	10	24	1.6	N.D.		
17.08.2020	50	28	12	22	1.0	N.D.		
20.08.2020	58	26	06	28	1.4	N.D.		
24.08.2020	40	24	10	24	1.0	N.D.		
29.08.2020	42	20	12	20	1.1	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 these agreed with custome.

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

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	Name & Address Of The Customer		REPORT NO		UES/TR/20-21/1192			
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		LAB REF NO		UES/20-21/AAQM/1532				
		DATE OF	SAMPLING	03/08/2020	to 29	/08/2020		
		DATE OF RECEIPT DATE OF REPORT		04/08/2020	to 30	/08/2020		
				03/09/2020				
		DATE OF	ANALYSIS	START: 06/08/2	END: 03/09/2020			
		SAMPLE I	DETAILS					
MONITORING FOR	AMBIENT AIR QUALITY MON	ITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/0033 DATED: 16/07/2020			
SAMPLING LOCATION	NEAR DG STACK (CORE ZONE,)	1					
DURATION OF SAMPLING	24 HOURS	SAMPLE (COLLECTED BY	LABORATORY CHEMIST				
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			d'annual de la companya de la compan				
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 SO ₂ : 30MLX1 NO. PVC BOTT RUBBER BLADDER: 1X1 NO.	200						

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 (NO ₂)	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/m ³	NO ₂ µg/m³	CO* mg/m³	Hg ng/m³			
03.08.2020	50	20	12	20	1.1	N.D.			
06.08.2020	40	26	10	26	1.4	N.D.			
10.08.2020	50	20	16	22	1.1	N.D.			
13.08.2020	54	28	10	24	1.2	N.D.			
17.08.2020	58	22	12: *	20	1.6	N.D.			
20.08.2020	44	20	08	26	1.2	N.D.			
24.08.2020	50	26	12	22	1.0	N.D.			
29.08.2020	48	22	16	20	1.1	N.D.			

Terms & conditions

The report for publication, arbitration or as regar unappear of the retained for 15 days after issue of test report unless other test sample will be retained for 15 days after issue of test report unless other test sample. se agreed with customer.

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Name & Address Of The Customer UES/TR/20-21/1193 REPORT NO TO, UES/20-21/AAQM/1533 LAB REF NO HINDALCO INDUSTRIES LIMITED, 03/08/2020 to 29/08/2020 DATE OF SAMPLING KATHAUTIA OPEN CAST COAL MINES, 04/08/2020 to 30/08/2020 DATE OF RECEIPT POST - NAUDIHA, P.S. PANDWA, DATE OF REPORT 03/09/2020 DALTONGANJ, DISTT.- PALAMU (JH) DATE OF ANALYSIS START: 06/08/2020 END: 03/09/2020 SAMPLE DETAILS K/PO/SRV/2021/0033 CUSTOMER REF. NO. & DATE MONITORING FOR AMBIENT AIR OUALITY MONITORING DATED: 16/07/2020 SAMPLING LOCATION NEAR SUBSTATION (CORE ZONE) DURATION OF SAMPLING SAMPLE COLLECTED BY LABORATORY CHEMIST SAMPLING PROCEDURE AS PER METHOD REFERENCE FILTER PAPER (PM10): 1X1 NO., FILTER PAPER (PM2.5): 1X1 NO. SAMPLE SO2: 30MLX1 NO. PVC BOTTLE, NO2: 30MLX1 NO. PVC BOTTLE QUANTITY/PACKING RUBBER BLADDER: 1X1 NO.

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 (NO ₂)	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			
03.08.2020	54	26	06	20	1.0	N.D.			
06.08.2020	44	20	10	22	0.8	N.D.			
10.08.2020	52	28	08	28	1.0	N.D.			
13.08.2020	44	22	12	20	1.4	N.D.			
17.08.2020	48	26	16+	26	1.1	N.D.			
20.08.2020	40	22	08	22	1.0	N.D.			
24.08.2020	52	28	06	20	1.4	N.D.			
29.08.2020	46	20	08	24	1.2	N.D.			

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To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		REPORT NO	UES/TR/20-21/1194				
		LAB REF NO		UES/20-21/FE/1534			
		DATE OF SAMPLING	20	/08/2020			
		DATE OF RECEIPT DATE OF REPORT		24/08/2020			
				03/09/2020			
		DATE OF ANALYSIS	START: 24/08/20		END: 03/09/2020		
		SAMPLE DETAILS			Charles and the second		
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & K/PO/SRV/2021/0033 DATE DATED: 16/07/2020					
SAMPLING LOCATION	MINING PHASE PIT "A"						
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LAE	BORATORY CHEMIST			
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		1				
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 1	0 INCH): 1X1 NO.					

	TEŞT REPORT							
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE			
1	Total Suspended Particulate Matter (as SPM)	μg/m³	318	500	EPA Method IO-2.1			

Note: All results are on the basis of Z4 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Custon	ner	REPORT NO		UES/TR/20-21/1195			
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/1535			
		DATE OF SAMPLING	20/08/2020				
		DATE OF RECEIPT DATE OF REPORT		24/08/2020 03/09/2020			
							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 "B"						
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY LABORATORY CHEMIST			7		
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	342	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 DATE OF SAMPLING DATE OF RECEIPT		UES/TR/20-21/1196 UES/20-21/FE/1536 20/08/2020						
								24/08/2020		
								DATE OF REPORT	03/09/2020	
				DATE OF ANALYSIS	STA	RT: 24/08/2020	END: 03/09/2020			
				SAMPLE DETAILS						
		MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020					
SAMPLING LOCATION	PIT "C"									
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	366	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	ner	REPORT NO		UES/TR/20-21/1197			
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		LAB REF NO DATE OF SAMPLING DATE OF RECEIPT DATE OF REPORT		UES/20-21/FE/1537 20/08/2020			
				DATE OF ANALYSIS	STA	RT: 24/08/2020	END: 03/09/2020
						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	LAB	SORATORY CHEMIST	7		
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		- 10				
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/20-21/1198 UES/20-21/FE/1538			
		DATE OF RECEIPT		24/08/2020			
		DATE OF REPORT	03/09/2020				
		DATE OF ANALYSIS	STA	RT:24/08/2020	END: 03/09/2020		
				SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020				
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 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	318	500	EPA Method IO-2.1			

Note: All results are on the basis of Z4 hour sampling.

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Custon	ner	REPORT NO	UES/TR/20-21/1199			
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/1539 20/08/2020			
		DATE OF SAMPLING				
		DATE OF RECEIPT	24/08/2020 03/09/2020			
		DATE OF REPORT				
		DATE OF ANALYSIS	START: 24/08/2020	END: 03/09/2020		
		SAMPLE DETAILS	Anna ann an			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021, DATED: 16/07/2			
SAMPLING LOCATION	HAUL ROAD					
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.				

	TEST REPORT								
SR. NO.	PARAMETER	UNIT	RESULT	As per Moef Notification (350-1)	METHOD REFERENCE				
1	Total Suspended Particulate Matter (as SPM)	μg/m³	348	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/20-21/1200 UES/20-21/FE/1540			
		DATE OF RECEIPT DATE OF REPORT		24/08/2020 03/09/2020			
							DATE OF ANALYSIS
				SAMPLE DETAILS			
		MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE		K/PO/SRV/2021/ DATED: 16/07/2	
SAMPLING LOCATION	RAJHARA RAILWAY SIDEING						
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	356	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 Custon	ner	REPORT NO	UES/TR/20-21/1201 UES/20-21/FE/1541			
To,		LAB REF NO				
HINDALCO INDUST		DATE OF SAMPLING	20/08/2020			
	CAST COAL MINES,	DATE OF RECEIPT	24/08/2020 03/09/2020			
POST - NAUDIHA, I	A CONTRACTOR CONTRACTO	DATE OF REPORT				
DALTONGANJ, DISTT PALAMU (JH)		DATE OF ANALYSIS	START: 24/08/2020	END: 03/09/2020		
		SAMPLE DETAILS	Annual Company of the			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020			
SAMPLING LOCATION	TRUCK PARKING ZONE					
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	ľ			
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	326	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,		Report No		UES/TR/20-21/1202 UES/20-21/W/1542-1543			
KATHAUTIA OPEN	Date Of Receipt	24	/08/2020				
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		Date Of Report		03/09/2020			
DALI OROARO, DIO	TI- PALAMO (OTI)	Date Of Analysis	Start: 24/08/2020		End: 03/09/2020		
	S	AMPLE DETAILS	ani se teraste				
Customer Sample ID	1. Near Workshop 2. Sump Water Pit-D	Customer Ref. No. & Date	& K/PO/SRV/2021/0033 DATED: 16/07/2020				
Sample Type	Effluent Water	Sample Condition At Receipt	on At Ok				
Packing Of Sample Jerry Cane (3 ltr.*1) Glass bottle (1 ltr.*1)		Sample Collected By		Laboratory Chemist			
Other Details	Sealed	Sealed Quantity Received		Approx. 4Ltr.			

REPORT NO. - 1202

			TEST REPOR	Т		
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	NEAR WORK SHOP	SUMP WATER
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	АРНА 22 nd Ed.2012,2130-B,2-13	Shall not exceed 5°C above the receiving water temperature	25.4	25.6
4	рн	-	APHA 22 nd Ed.2012,4500-H ⁺ - B,4-92	5.5 to 9.0	7.28	7.36
, 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	АРНА 22 nd Ed.2012,2540- D, 2-66	100	18.0	32.0
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	0.1	0.2
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	0.18	0.21
11	Copper (as Cu)	mg/L	АРНА 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. - 1202

			TEST REPORT	Г		
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	78.0	86.0
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025(Part 44):1993,RA 2003	30	8.6	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.

Note: mg/lit.: milligram per liter.

REMARKS: RESULTS ARE AS ABOVE

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to Name & Address Of The Customer		Report No		UES/TR/20-21/1203		
		Lab Ref No	Lab Ref No UES/20-21/W		4	
HINDALCO INDUST	and the same of th	Date Of Sampling 20/08/2020		/08/2020		
	CAST COAL MINES,	Date Of Receipt	24	24/08/2020		
POST – NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT PALAMU (JH)		Date Of Report 03		3/09/2020		
DALIUNGANJ, DIS	II PALAMO (JH)	Date Of Analysis	Start: 24/08/2020		End: 03/09/2020	
	SA	MPLE DETAILS	dayona			
Sampling Location	1. SECURITY BAIRCK 2. SIKKS VILLAGE 3. BATSARA VILLAGE	Customer Ref. No. & Date		K/PO/SRV/2021/0033 DATED: 16/07/2020		
Monitoring For Piezometer Ground Water Depth		Sample Condition At Ok		Ok		
Sample Collected By	Laboratory Chemist	17				

	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	6.0				
2	NEAR SIKKA VILLAGE	24°06′54.88″N	84°05′34.33″E	METER	12.0				
3	NEAR BATSARA VILLAGE	24°06′52.49″N	84°05′41.49″E	METER	11.5				

Note: BGWL - Below Ground Water Level.

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TO, HINDALCO INDUST KATHAUTIA OPEN POST – NAUDIHA,	TRIES LIMITED, CAST COAL MINES,	REPORT NO LAB REF NO DATE OF REPORT	UES/TR/20-21/1204 UES/20-21/N/1545 03/09/2020			
DALTONGANJ, DIS		DATE OF SAMPLING	20/08/2020 to 21/08/2020			
Control constitutions of activities and a state of the st		SAMPLE DETAILS				
MONITORING FOR	NOISE LEVEL MONITORING					
CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033, DATE	K/PO/SRV/2021/0033, DATED: 16/07/2020				
SAMPLING LOCATION	INSIDE COAL MINE & OUTSI	DE COAL MINE (AS DESCRIE	BED BELOW)			
SAMPLE COLLECTED BY	LABORATORY CHEMIST					
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION	ON				

	T	EST REP	ORT			
			BULT	LIMIT (INDUSTRIAL ZONE)		
LOCATION	UNIT	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	
Inside Plant	A DESCRIPTION OF THE PROPERTY	THE STATE OF THE S				
MINES OFFICE NEAR VTC	dB(A)	64.1	54.1		70	
NEAR MAIN GATE	dB(A)	72.6	60.8	75		
NEAR DG STACK	dB(A)	64.8	48.2			
NEAR SUBSTATION	dB(A)	67.3	52.6			
		RESULT		LIMIT (RESIDENTIAL ZONE)		
LOCATION	UNIT	DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME	
Outside Plant					VIII. SALES	
R & R COLONY, CHANDAN NAGAR	dB(A)	42.0	38.0	55		
KATHAUTIYA VILLAGE	dB(A)	48.2	42.6		45	
BATSARA VILLAGE	dB(A)	50.6	44.2			
SIKKA VILLAGE	dB(A)	44.8	40.8			

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