



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

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

<b>Name &amp; Address Of The Customer</b>		<b>REPORT NO</b>	UES/TR/21-22/04312
<b>TO,</b>		<b>LAB REF NO</b>	UES/21-22/AAQM/07841-07848
<b>HINDALCO INDUSTRIES LIMITED,</b>		<b>DATE OF SAMPLING</b>	01/11/2021 to 27/11/2021
<b>KATHAUTIA OPEN CAST COAL MINES,</b>		<b>DATE OF RECEIPT</b>	02/11/2021 to 29/11/2021
<b>POST - NAUDIHA, P.S. PANDWA,</b>		<b>DATE OF REPORT</b>	01/12/2021
<b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		<b>DATE OF ANALYSIS</b>	START:02/11/2021      END:01/12/2021
<b>SAMPLE DETAILS</b>			
<b>MONITORING FOR</b>	AMBIENT AIR QUALITY MONITORING	<b>CUSTOMER REF. NO. &amp; DATE</b>	K/PO/SRV/2122/0058, DATE:30-SEP-2021
<b>SAMPLING LOCATION</b>	R & R COLONY, CHANDAN NAGAR (BUFFER ZONE)		
<b>DURATION OF SAMPLING</b>	24 HOURS	<b>SAMPLE COLLECTED BY</b>	LABORATORY CHEMIST
<b>SAMPLING PROCEDURE</b>	AS PER METHOD REFERENCE		
<b>SAMPLE QUANTITY/PACKING</b>	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	62	28	12	24	0.6	N.D.
06.11.2021	54	26	18	22	0.4	N.D.
08.11.2021	52	22	16	26	1.2	N.D.
13.11.2021	60	24	12	28	1.0	N.D.
15.11.2021	54	28	10	20	1.4	N.D.
20.11.2021	68	20	08	22	0.8	N.D.
22.11.2021	52	26	12	26	1.6	N.D.
27.11.2021	48	22	14	22	0.8	N.D.

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

#### Terms & conditions

- > The use of 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(s) only.

 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/04313	
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07849-07856	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/12/2021
		<b>SAMPLE DETAILS</b>		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	KATHAUTIYA VILLAGE (BUFFER ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	58	28	12	22	1.1	N.D.
06.11.2021	50	22	14	26	1.2	N.D.
08.11.2021	56	30	16	28	0.8	N.D.
13.11.2021	52	26	12	22	0.6	N.D.
15.11.2021	58	22	18	24	0.9	N.D.
20.11.2021	60	28	12	26	0.7	N.D.
22.11.2021	56	24	14	22	0.6	N.D.
27.11.2021	55	26	10	20	0.4	N.D.

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

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 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	<b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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Name & Address of The Customer		REPORT NO	UES/TR/21-22/04314	
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07857-07864	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/12/2021
		<b>SAMPLE DETAILS</b>		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	BATSARA VILLAGE (BUFFER ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	68	24	10	26	1.0	N.D.
06.11.2021	74	26	12	28	1.2	N.D.
08.11.2021	60	32	14	22	0.8	N.D.
13.11.2021	78	26	16	24	0.6	N.D.
15.11.2021	62	28	10	20	0.2	N.D.
20.11.2021	60	35	12	26	0.7	N.D.
22.11.2021	54	30	18	20	0.9	N.D.
27.11.2021	60	32	16	24	0.6	N.D.

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

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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04315	
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07865-07872	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/12/2021
		<b>SAMPLE DETAILS</b>		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	SIKKA VILLAGE (BUFFER ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	68	20	10	20	0.8	N.D.
06.11.2021	66	22	08	26	0.6	N.D.
08.11.2021	62	24	06	22	0.2	N.D.
13.11.2021	60	28	12	28	0.8	N.D.
15.11.2021	58	32	09	20	0.9	N.D.
20.11.2021	46	20	12	26	0.2	N.D.
22.11.2021	58	26	10	22	0.8	N.D.
27.11.2021	62	28	08	24	0.5	N.D.

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

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 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/04316	
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07873-7880	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/11/2021
		<b>SAMPLE DETAILS</b>		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	MINES OFFICE NEAR VTC (CORE ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	70	32	11	28	1.2	N.D.
06.11.2021	76	24	16	24	0.9	N.D.
08.11.2021	70	28	12	19	1.1	N.D.
13.11.2021	68	24	08	22	1.0	N.D.
15.11.2021	64	26	12	26	0.8	N.D.
20.11.2021	76	38	14	28	1.1	N.D.
22.11.2021	62	25	16	22	0.9	N.D.
27.11.2021	57	22	12	24	1.1	N.D.

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

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 01/12/21 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 01/12/21 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk  
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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04317	
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07881-07888	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/11/2021
<b>SAMPLE DETAILS</b>				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	NEAR MAIN GATE (CORE ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	78	28	12	22	0.8	N.D.
06.11.2021	68	26	14	24	0.6	N.D.
08.11.2021	72	30	10	28	1.0	N.D.
13.11.2021	64	32	16	20	1.1	N.D.
15.11.2021	60	26	12	26	0.9	N.D.
20.11.2021	78	30	10	28	1.1	N.D.
22.11.2021	66	22	14	20	1.2	N.D.
27.11.2021	72	28	12	24	0.9	N.D.

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

#### Terms & conditions

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

 <b>REVIEWED BY</b>	 <b>AUTHORIZED SIGNATORY</b>	For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/04318	
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07889-07896	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/12/2021
		<b>SAMPLE DETAILS</b>		
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)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	68	26	09	20	0.6	N.D.
06.11.2021	56	22	12	24	0.7	N.D.
08.11.2021	62	24	10	22	1.0	N.D.
13.11.2021	72	20	12	26	0.8	N.D.
15.11.2021	54	26	12	18	1.1	N.D.
20.11.2021	50	20	09	20	0.7	N.D.
22.11.2021	48	26	14	22	0.9	N.D.
27.11.2021	52	22	12	24	0.7	N.D.

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

#### Terms & conditions

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 01/12/21 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> 27, KANHAIYA NAGAR, RING ROAD, RAIPUR (C.G.) 192009 (C.G.)	<b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>  01/12/21 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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

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

Name & Address Of The Customer		REPORT NO	UES/TR/21-22/04319	
<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/AAQM/07897-07904	
		DATE OF SAMPLING	01/11/2021 to 27/11/2021	
		DATE OF RECEIPT	02/11/2021 to 29/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 02/11/2021	END: 01/11/2021
<b>SAMPLE DETAILS</b>				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	NEAR SUBSTATION(CORE ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM <sub>10</sub> ): 1X1 NO., FILTER PAPER (PM <sub>2.5</sub> ): 1X1 NO. SO <sub>2</sub> : 30MLX1 NO. PVC BOTTLE, NO <sub>2</sub> : 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 <sub>10</sub> )	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM <sub>2.5</sub> )	CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO <sub>2</sub> )	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol.-I	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 <sub>10</sub> µg/m <sup>3</sup>	PM <sub>2.5</sub> µg/m <sup>3</sup>	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>2</sub> µg/m <sup>3</sup>	CO* mg/m <sup>3</sup>	Hg ng/m <sup>3</sup>
01.11.2021	68	26	12	24	0.9	N.D.
06.11.2021	56	24	16	22	0.8	N.D.
08.11.2021	52	22	12	20	0.7	N.D.
13.11.2021	58	28	11	26	0.4	N.D.
15.11.2021	62	24	12	20	1.0	N.D.
20.11.2021	58	22	10	28	0.8	N.D.
22.11.2021	52	28	14	22	0.4	N.D.
27.11.2021	56	26	12	26	0.7	N.D.

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

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 01/12/21		For ULTIMATE ENVIROLYTICAL SOLUTIONS  01/12/21
<b>REVIEWED BY</b>		<b>AUTHORIZED SIGNATORY</b>

-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04320		
<b>To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/FE/07905		
		DATE OF SAMPLING	27/11/2021		
		DATE OF RECEIPT	28/11/2021		
		DATE OF REPORT	01/12/2021		
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021	
		<b>SAMPLE DETAILS</b>			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021		
SAMPLING LOCATION	MINING PHASE PIT "A"				
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)	$\mu\text{g}/\text{m}^3$	342	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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 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk  
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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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<b>Name &amp; Address Of The Customer</b>  <b>To,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		REPORT NO	UES/TR/21-22/04321	
		LAB REF NO	UES/21-22/FE/07906	
		DATE OF SAMPLING	27/11/2021	
		DATE OF RECEIPT	28/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021
<b>SAMPLE DETAILS</b>				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 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 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)	$\mu\text{g}/\text{m}^3$	328	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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 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04322
<b>To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/FE/07907
		DATE OF SAMPLING	27/11/2021
		DATE OF RECEIPT	28/11/2021
		DATE OF REPORT	01/12/2021
		DATE OF ANALYSIS	START: 28/11/2021      END: 01/12/2021
		<b>SAMPLE DETAILS</b>	
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021
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 10 INCH): 1X1 NO.		

## TEST REPORT

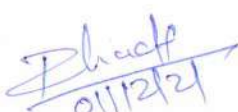


SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	412	500	EPA Method IO-2.1

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

**REMARKS: RESULTS ARE AS ABOVE**

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 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04323		
<b>To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/FE/07908		
		DATE OF SAMPLING	27/11/2021		
		DATE OF RECEIPT	28/11/2021		
		DATE OF REPORT	01/12/2021		
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021	
		<b>SAMPLE DETAILS</b>			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021		
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 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)	$\mu\text{g}/\text{m}^3$	368	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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 01/12/21		For ULTIMATE ENVIROLYTICAL SOLUTIONS  01/12/21
<b>REVIEWED BY</b>		<b>AUTHORIZED SIGNATORY</b>

-----End of the test report-----



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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04325	
<b>To,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/FE/07910	
		DATE OF SAMPLING	27/11/2021	
		DATE OF RECEIPT	28/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021
<b>SAMPLE DETAILS</b>				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	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			
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)	$\mu\text{g}/\text{m}^3$	376	500	EPA Method IO-2.1

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

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 01/12/21 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  01/12/21 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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

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<b>To,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		REPORT NO	UES/TR/21-22/04324	
		LAB REF NO	UES/21-22/FE/07909	
		DATE OF SAMPLING	27/11/2021	
		DATE OF RECEIPT	28/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021
<b>SAMPLE DETAILS</b>				
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/m <sup>3</sup>	355	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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 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



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

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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04326	
<b>To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/FE/07911	
		DATE OF SAMPLING	27/11/2021	
		DATE OF RECEIPT	28/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021
<b>SAMPLE DETAILS</b>				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
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 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/m <sup>3</sup>	408	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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 <b>REVIEWED BY</b>		For ULTIMATE ENVIROLYTICAL SOLUTIONS  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----



HDD-272, Phase III - Near JP Chowk  
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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04327	
<b>To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/FE/07912	
		DATE OF SAMPLING	27/11/2021	
		DATE OF RECEIPT	28/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021
<b>SAMPLE DETAILS</b>				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	TRUCK PARKING ZONE			
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/m <sup>3</sup>	328	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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 <b>REVIEWED BY</b>		<b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>  <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----





HDD-272, Phase III - Near JP Chowk  
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<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/04328
<b>To,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		LAB REF NO	UES/21-22/N/07914-07920
		DATE OF REPORT	01/12/2021
		DATE OF SAMPLING	27/11/2021 to 28/11/2021
		<b>SAMPLE DETAILS</b>	
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058, DATE:30-SEP-2021		
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		

<b>TEST REPORT</b>					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Inside Plant</b>					
MINES OFFICE NEAR VTC	dB(A)	60.2	50.7	75	70
NEAR MAIN GATE	dB(A)	64.6	48.4		
NEAR DG STACK	dB(A)	62.2	56.2		
NEAR SUBSTATION	dB(A)	56.8	44.9		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
<b>Outside Plant</b>					
R & R COLONY, CHANDAN NAGAR	dB(A)	52.5	36.0	55	45
KATHAUTIYA VILLAGE	dB(A)	48.7	34.6		
BATSARA VILLAGE	dB(A)	46.2	38.8		
SIKKA VILLAGE	dB(A)	43.8	40.5		

**REMARKS: RESULTS ARE AS ABOVE**

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 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  AUTHORIZED SIGNATORY
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-----End of the test report-----



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

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

<i>to Name &amp; Address Of The Customer</i> <b>To,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>KATHAUTIA OPEN CAST COAL MINES,</b> <b>POST - NAUDIHA, P.S. PANDWA,</b> <b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		REPORT NO	UES/TR/21-22/04329	
		LAB REF NO	UES/21-22/W/07921-07922	
		DATE OF SAMPLING	27/11/2021	
		DATE OF RECEIPT	28/11/2021	
		DATE OF REPORT	01/12/2021	
		DATE OF ANALYSIS	START: 28/11/2021	END: 01/12/2021
<b>SAMPLE DETAILS</b>				
Customer Sample ID	1. Sump Water Pit-D 2. Workshop ETP Water	Customer Ref. No. & Date	K/PO/SRV/2122/0058, Date:30-Sep-2021	
Sample Type	Effluent Water	Sample Condition At Receipt	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.- 04329

### 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
1	Colour	Hazen	APHA 22 <sup>nd</sup> Ed. 2012,2120-B,2-6	See 6 of Annexure-I	<1	<1
2	Odour	-	APHA 22 <sup>nd</sup> Ed. 2012,2120-B,2-6	See 6 of Annexure-I	Agreeable	Agreeable
3	Temperature	°C	APHA 22 <sup>nd</sup> Ed.2012,2130-B,2-13	Shall not exceed 5°C above the receiving water temperature	24.8	26.4
4	pH	-	APHA 22 <sup>nd</sup> Ed.2012,4500-H <sup>+</sup> -B,4-92	5.5 to 9.0	7.46	7.18
5	Total Residual Chlorine	mg/L	APHA 22 <sup>nd</sup> Ed.2012,4500-Cl-G,4-69	1.0	N.D.	N.D.
6	Total Suspended Solids	mg/L	APHA 22 <sup>nd</sup> Ed.2012,2540- D, 2-66	100	74.0	82.0
7	Dissolved Phosphate (as P)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,4500-P-C, 4-153	5.0	N.D.	N.D.
8	Fluoride (as F)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,4500-F-B&D,4-84 & 87	2.0	0.11	0.08
9	Lead (as Pb)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	0.1	N.D.	N.D.
10	Zinc (as Zn)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	5.0	0.26	0.11
11	Copper (as Cu)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	3.0	N.D.	N.D.
12	Cadmium (as Cd)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3500-Cd, 3-105	2.0	N.D.	N.D.
13	Mercury (as Hg)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3112-B, 3-23	0.01	N.D.	N.D.



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### 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	WORKSHOP ETP WATER
14	Arsenic (as As)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3114-C, 3-38	0.2	N.D.	N.D.
15	Selenium (as Se)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3114-C, 3-38	0.05	N.D.	N.D.
16	Total Chromium (as Cr)	mg/L	APHA 22 <sup>nd</sup> Ed.2012,3500-Cr-B,3-69	2.0	N.D.	N.D.
17	Chemical Oxygen Demand (COD)	mg/L	APHA 22 <sup>nd</sup> Ed.2012; 5520-B,5-17	250	154.0	98.0
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025 (Part 44):1993, RA 2003	30	12.6	6.8
19	Oil & Grease	mg/L	IS 3025 (Part 39):1991, RA 2003,	10.0	N.D.	N.D.
20	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> 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

#### REMARKS: RESULTS ARE AS ABOVE

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-----End of the test report-----