



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/21-22/07867
<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>		<b>LAB REF NO</b>	UES/21-22/AAQM/012820-012826
		<b>DATE OF SAMPLING</b>	01/02/2022 to 25/02/2022
		<b>DATE OF RECEIPT</b>	02/02/2022 to 26/02/2022
		<b>DATE OF REPORT</b>	03/03/2022
		<b>DATE OF ANALYSIS</b>	START: 03/02/2022      END: 03/03/2022
<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>
01.02.2022	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	N.D.
18.02.2022	82	22	18	26	0.8	N.D.
21.02.2022	78	26	12	22	1.4	N.D.
25.02.2022	70	28	16	28	0.6	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.

 03/03/22 <b>REVIEWED BY</b>		<b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>  03/03/22 <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

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/21-22/007868
<b>TO,</b>		<b>LAB REF NO</b>	UES/21-22/AAQM/012827-012834
<b>HINDALCO INDUSTRIES LIMITED,</b>		<b>DATE OF SAMPLING</b>	01/02/2022 to 25/02/2022
<b>KATHAUTIA OPEN CAST COAL MINES,</b>		<b>DATE OF RECEIPT</b>	02/02/2022 to 26/02/2022
<b>POST - NAUDIHA, P.S. PANDWA,</b>		<b>DATE OF REPORT</b>	03/03/2022
<b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		<b>DATE OF ANALYSIS</b>	START: 03/02/2022      END: 03/03/2022
<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>	KATHAUTIYA VILLAGE (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>
01.02.2022	72	20	16	20	0.7	N.D.
04.02.2022	68	24	12	24	0.6	N.D.
07.02.2022	70	28	10	26	0.2	N.D.
11.02.2022	68	30	18	28	0.8	N.D.
14.02.2022	72	36	10	20	0.4	N.D.
18.02.2022	78	32	18	26	0.8	N.D.
21.02.2022	64	26	16	28	0.6	N.D.
25.02.2022	60	28	12	30	0.2	N.D.

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

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 03/03/22 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 03/03/22 <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report-----





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Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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

<i>Name &amp; Address of The Customer</i>		<b>REPORT NO</b>	UES/TR/21-22/07869
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		<b>LAB REF NO</b>	UES/21-22/AAQM/012835-012842
		<b>DATE OF SAMPLING</b>	01/02/2022 to 25/02/2022
		<b>DATE OF RECEIPT</b>	02/02/2022 to 26/02/2022
		<b>DATE OF REPORT</b>	03/03/2022
		<b>DATE OF ANALYSIS</b>	START: 03/02/2022      END: 03/03/2022
<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>	BATSARA VILLAGE (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>
01.02.2022	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.

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

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 03/03/22 <b>REVIEWED BY</b>	 	For ULTIMATE ENVIROLYTICAL SOLUTIONS  03/03/22 <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>		<i>REPORT NO</i>	UES/TR/21-22/07870
<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>		<i>LAB REF NO</i>	UES/21-22/AAQM/012843-012850
		<i>DATE OF SAMPLING</i>	01/02/2022 to 25/02/2022
		<i>DATE OF RECEIPT</i>	02/02/2022 to 26/02/2022
		<i>DATE OF REPORT</i>	03/03/2022
		<i>DATE OF ANALYSIS</i>	START: 03/02/2022      END: 03/03/2022
		<b>SAMPLE DETAILS</b>	
<i>MONITORING FOR</i>	AMBIENT AIR QUALITY MONITORING	<i>CUSTOMER REF. NO. &amp; DATE</i>	K/PO/SRV/2122/0058 DATE: 30-SEP-2021
<i>SAMPLING LOCATION</i>	SIKKA VILLAGE (BUFFER ZONE)		
<i>DURATION OF SAMPLING</i>	24 HOURS	<i>SAMPLE COLLECTED BY</i>	LABORATORY CHEMIST
<i>SAMPLING PROCEDURE</i>	AS PER METHOD REFERENCE		
<i>SAMPLE QUANTITY/PACKING</i>	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>
01.02.2022	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	N.D.
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	1.4	N.D.
21.02.2022	54	28	12	24	0.6	N.D.
25.02.2022	68	22	16	28	0.9	N.D.

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

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 03/03/22 <b>REVIEWED BY</b>	 <b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>	 03/03/22 <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

<i>Name &amp; Address Of The Customer</i>		<b>REPORT NO</b>	UES/TR/21-22/07871
<b>TO,</b>		<b>LAB REF NO</b>	UES/21-22/AAQM/012859-012866
<b>HINDALCO INDUSTRIES LIMITED,</b>		<b>DATE OF SAMPLING</b>	01/02/2022 to 25/02/2022
<b>KATHAUTIA OPEN CAST COAL MINES,</b>		<b>DATE OF RECEIPT</b>	02/02/2022 to 26/02/2022
<b>POST - NAUDIHA, P.S. PANDWA,</b>		<b>DATE OF REPORT</b>	03/03/2022
<b>DALTONGANJ, DISTT. - PALAMU (JH)</b>		<b>DATE OF ANALYSIS</b>	START: 03/02/2022      END: 03/03/2022
<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>	NEAR MAIN GATE (CORE 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>
01.02.2022	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.

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

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REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

AUTHORIZED SIGNATORY

-----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>Name &amp; Address Of The Customer</i>		<b>REPORT NO</b>	UES/TR/21-22/07871
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)</b>		<b>LAB REF NO</b>	UES/21-22/AAQM/012851-012858
		<b>DATE OF SAMPLING</b>	01/02/2022 to 25/02/2022
		<b>DATE OF RECEIPT</b>	02/02/2022 to 26/02/2022
		<b>DATE OF REPORT</b>	03/03/2022
		<b>DATE OF ANALYSIS</b>	START: 03/02/2022      END: 03/03/2022
		<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>	MINES OFFICE NEAR VTC (CORE 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>
01.02.2022	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	N.D.
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.

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

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- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

*Phudh*  
03/03/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

*Phudh*  
03/03/22

AUTHORIZED SIGNATORY

-----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>Name &amp; Address Of The Customer</i>		<b>REPORT NO</b>	UES/TR/21-22/07873
<b>TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)</b>		<b>LAB REF NO</b>	UES/21-22/AAQM/012867-012874
		<b>DATE OF SAMPLING</b>	01/02/2022 to 25/02/2022
		<b>DATE OF RECEIPT</b>	02/02/2022 to 26/02/2022
		<b>DATE OF REPORT</b>	03/03/2022
		<b>DATE OF ANALYSIS</b>	START: 03/02/2022      END: 03/03/2022
<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>	NEAR DG STACK (CORE 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>
01.02.2022	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.

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

#### Terms & conditions

- > The report for publication, arbitration or as legal dispute is forbidden.
- > Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- > This is for information as the party has asked for above test(s) only.

*Phadke*  
03/03/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

*Chandhok*  
03/03/22

AUTHORIZED SIGNATORY

-----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/21-22/07874
<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/012875-012882
		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
<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>
01.02.2022	86	20	14	22	0.7	N.D.
04.02.2022	72	34	16	28	0.5	N.D.
07.02.2022	78	28	12	25	0.9	N.D.
11.02.2022	74	22	18	20	0.6	N.D.
14.02.2022	66	36	12	22	1.1	N.D.
18.02.2022	82	32	18	28	0.7	N.D.
21.02.2022	78	38	10	22	0.5	N.D.
25.02.2022	68	32	18	26	0.6	N.D.

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

#### Terms & conditions

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- Test sample will be retained for 15 days after issue of test report unless otherwise agreed with customer.
- This is for information as the party has asked for above test(s) only.

*[Signature]*  
03/03/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

*[Signature]*  
03/03/22

AUTHORIZED SIGNATORY

-----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>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/07875		
<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/012883		
		DATE OF SAMPLING	11/02/2022		
		DATE OF RECEIPT	12/02/2022		
		DATE OF REPORT	18/02/2022		
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022	
		<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)	$\mu\text{g}/\text{m}^3$	346	500	EPA Method IO-2.1

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

**REMARKS: RESULTS ARE AS ABOVE**

### 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.

 18/02/22 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> PHASE-3, KABIR NAGAR RING ROAD, RAIPUR (C.G.)	For ULTIMATE ENVIROLYTICAL SOLUTIONS  18/02/22 <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

<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/07876	
<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/012884	
		DATE OF SAMPLING	11/02/2022	
		DATE OF RECEIPT	12/02/2022	
		DATE OF REPORT	18/02/2022	
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022
<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)	$\mu\text{g}/\text{m}^3$	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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- > This is-for information as the party has asked for above test(s) only.

 18/02/22 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> PHASE 3, KABIR NAGAR RING ROAD, RAIPUR (C.G.)	For <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>  18/02/22 <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

<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/07877	
<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/012885	
		DATE OF SAMPLING	11/02/2022	
		DATE OF RECEIPT	12/02/2022	
		DATE OF REPORT	18/02/2022	
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022
		<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)	$\mu\text{g}/\text{m}^3$	436	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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- > This is for information as the party has asked for above test(s) only.

 18/02/22 <b>REVIEWED BY</b>	 22-02-2022 22-02-2022	For ULTIMATE ENVIROLYTICAL SOLUTIONS  18/02/22 <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/21-22/07878		
<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/012886		
		DATE OF SAMPLING	11/02/2022		
		DATE OF RECEIPT	12/02/2022		
		DATE OF REPORT	18/02/2022		
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022	
		<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)	$\mu\text{g}/\text{m}^3$	410	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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- > This is for information as the party has asked for above test(s) only.

 18/02/22 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> HDD PHASE-3, KABIR NAGAR RING ROAD, HDD-272	For ULTIMATE ENVIROLYTICAL SOLUTIONS  18/02/22 <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

<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/07879		
<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/012887		
		DATE OF SAMPLING	11/02/2022		
		DATE OF RECEIPT	12/02/2022		
		DATE OF REPORT	18/02/2022		
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022	
		<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)	$\mu\text{g}/\text{m}^3$	462	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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- > This is for information as the party has asked for above test(s) only.

 18/02/22 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> 272ND PHASE, KABIR NAGAR RING ROAD NO.2, RAIPUR (C.G.)	For ULTIMATE ENVIROLYTICAL SOLUTIONS  18/02/22 <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

<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/07880		
<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/012888		
		DATE OF SAMPLING	11/02/2022		
		DATE OF RECEIPT	12/02/2022		
		DATE OF REPORT	18/02/2022		
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022	
		<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)	µg/m <sup>3</sup>	384	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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- > This is for information as the party has asked for above test(s) only.

*[Signature]*  
18/02/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

*[Signature]*  
18/02/22

AUTHORIZED SIGNATORY

-----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

<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/21-22/07881	
		LAB REF NO	UES/21-22/FE/012889	
		DATE OF SAMPLING	11/02/2022	
		DATE OF RECEIPT	12/02/2022	
		DATE OF REPORT	18/02/2022	
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022
<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)	$\mu\text{g}/\text{m}^3$	462	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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- > This is for information as the party has asked for above test(s) only.

 18/02/22 <b>REVIEWED BY</b>	 ULTIMATE ENVIROLYTICAL SOLUTIONS 27-02-2005, KABIR NAGAR RING ROAD, RAIPUR (C.G.)	For ULTIMATE ENVIROLYTICAL SOLUTIONS  18/02/22 <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

<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/21-22/07882	
		LAB REF NO	UES/21-22/FE/012890	
		DATE OF SAMPLING	11/02/2022	
		DATE OF RECEIPT	12/02/2022	
		DATE OF REPORT	18/02/2022	
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022
<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)	$\mu\text{g}/\text{m}^3$	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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 18/02/22 <b>REVIEWED BY</b>	 <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b> HINDALCO PHASE-3, KABIR NAGAR RING ROAD, RAIPUR (C.G.)	<b>For ULTIMATE ENVIROLYTICAL SOLUTIONS</b>  18/02/22 <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

<i>Name &amp; Address Of The Customer</i>		REPORT NO	UES/TR/21-22/07883
<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/012891-012898
		DATE OF REPORT	18/02/2022
		DATE OF SAMPLING	11/02/2022 to 12/02/2022
		<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)	68.6	58.4	75	70
NEAR MAIN GATE	dB(A)	66.8	50.2		
NEAR DG STACK	dB(A)	72.2	56.8		
NEAR SUBSTATION	dB(A)	58.8	48.5		
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)	54.8	36.8	55	45
KATHAUTIYA VILLAGE	dB(A)	50.2	32.2		
BATSARA VILLAGE	dB(A)	48.5	38.6		
SIRKA VILLAGE	dB(A)	46.8	34.5		

**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-----





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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099  
Ph : 0771 - 4027777 | Email : ultimatenviro@gmail.com

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To Name & Address Of The Customer		REPORT NO	UES/TR/21-22/07884		
<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/W/012899-13000		
		DATE OF SAMPLING	11/02/2022		
		DATE OF RECEIPT	12/02/2022		
		DATE OF REPORT	18/02/2022		
		DATE OF ANALYSIS	START: 12/02/2022	END: 18/02/2022	
		SAMPLE DETAILS			
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.- 07884

### TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986	SUMP WATER PIT-D	WORKSHO P ETP WATER
				[SCHEDULE-VI] PART-A INLAND SURFACE 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	25.2	25.6
4	pH	-	APHA 22 <sup>nd</sup> Ed.2012,4500-H <sup>+</sup> -B,4-92	5.5 to 9.0	7.26	7.43
5	Total Residual Chlorine	mg/L	APHA 22 <sup>nd</sup> Ed.2012,4500-C1-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	112.0	134.0
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	0.16	0.11
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	0.16	0.12
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.



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 <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	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 <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

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