



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

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

Name & Address Of The Customer TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)	REPORT NO	UES/TR/21-22/08966	
	LAB REF NO	UES/21-22/AAQM/014685	
	DATE OF SAMPLING	02/03/2022 to 28/03/2022	
	DATE OF RECEIPT	03/03/2022 to 29/03/2022	
	DATE OF REPORT	01/04/2022	
	DATE OF ANALYSIS	START: 04/03/2022	END: 01/04/2022

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058, DATE: 30-SEP-2021
SAMPLING LOCATION	R & R COLONY, CHANDAN NAGAR (BUFFER ZONE)		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	80	26	16	29	0.5	N.D.
07.03.2022	76	24	12	20	0.8	N.D.
11.03.2022	68	20	08	24	1.2	N.D.
14.03.2022	82	34	10	28	0.4	N.D.
18.03.2022	64	28	16	22	0.8	N.D.
21.03.2022	84	24	14	24	0.2	N.D.
25.03.2022	72	28	18	22	0.8	N.D.
28.03.2022	76	22	12	26	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.

 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

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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08967	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014686	
		DATE OF SAMPLING	02/03/2022 to 28/03/2022	
		DATE OF RECEIPT	03/03/2022 to 29/03/2022	
		DATE OF REPORT	01/04/2022	
		DATE OF ANALYSIS	START: 04/03/2022	END: 01/04/2022
		SAMPLE DETAILS		
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 ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.			

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	74	22	14	22	0.9	N.D.
07.03.2022	70	28	18	28	0.7	N.D.
11.03.2022	72	24	16	22	0.5	N.D.
14.03.2022	64	36	12	26	0.2	N.D.
18.03.2022	76	32	18	24	0.8	N.D.
21.03.2022	72	34	12	28	0.6	N.D.
25.03.2022	68	20	14	22	0.2	N.D.
28.03.2022	64	24	16	34	0.8	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
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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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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08969	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014688	
		DATE OF SAMPLING	02/03/2022 to 28/03/2022	
		DATE OF RECEIPT	03/03/2022 to 29/03/2022	
		DATE OF REPORT	01/04/2022	
		DATE OF ANALYSIS	START: 04/03/2022	END: 01/04/2022
SAMPLE DETAILS				
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 ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.			

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	84	32	18	22	0.6	N.D.
07.03.2022	86	20	12	18	0.4	N.D.
11.03.2022	70	24	16	20	0.9	N.D.
14.03.2022	88	22	12	26	0.4	N.D.
18.03.2022	74	34	10	30	0.5	N.D.
21.03.2022	62	20	12	18	1.0	N.D.
25.03.2022	82	29	18	22	0.8	N.D.
28.03.2022	78	26	12	28	0.7	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 & Address of The Customer</i>		REPORT NO	UES/TR/21-22/08968
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014687
		DATE OF SAMPLING	02/03/2022 to 28/03/2022
		DATE OF RECEIPT	03/03/2022 to 29/03/2022
		DATE OF REPORT	01/04/2022
		DATE OF ANALYSIS	START: 04/03/2022 END: 01/04/2022
		SAMPLE DETAILS	
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 ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	78	22	12	26	1.2	N.D.
07.03.2022	76	28	10	24	1.4	N.D.
11.03.2022	60	32	18	20	0.9	N.D.
14.03.2022	74	26	12	28	0.5	N.D.
18.03.2022	68	22	09	223	0.2	N.D.
21.03.2022	52	38	06	26	0.7	N.D.
25.03.2022	66	24	12	20	0.6	N.D.
28.03.2022	74	32	10	28	0.2	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 & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08970
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014689
		DATE OF SAMPLING	02/03/2022 to 28/03/2022
		DATE OF RECEIPT	03/03/2022 to 29/03/2022
		DATE OF REPORT	01/04/2022
		DATE OF ANALYSIS	START: 04/03/2022 END: 01/04/2022
		SAMPLE DETAILS	
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 ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	84	38	14	20	0.8	N.D.
07.03.2022	82	25	12	28	0.5	N.D.
11.03.2022	78	42	08	22	1.6	N.D.
14.03.2022	86	26	10	26	1.2	N.D.
18.03.2022	62	32	16	20	0.9	N.D.
21.03.2022	88	22	10	24	1.2	N.D.
25.03.2022	64	30	18	28	0.7	N.D.
28.03.2022	72	20	12	22	1.0	N.D.

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

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

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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 & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08971	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014690	
		DATE OF SAMPLING	02/03/2022 to 28/03/2022	
		DATE OF RECEIPT	03/03/2022 to 29/03/2022	
		DATE OF REPORT	01/04/2022	
		DATE OF ANALYSIS	START: 04/03/2022	END: 01/04/2022
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	NEAR 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 ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.			

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	84	40	18	26	0.9	N.D.
07.03.2022	86	34	12	28	0.6	N.D.
11.03.2022	82	38	10	22	1.2	N.D.
14.03.2022	88	42	16	24	1.1	N.D.
18.03.2022	84	36	14	28	0.8	N.D.
21.03.2022	90	40	12	20	1.2	N.D.
25.03.2022	84	38	18	22	1.4	N.D.
28.03.2022	88	42	12	26	0.8	N.D.

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

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 01/04/22 REVIEWED BY	 For ULTIMATE ENVIROLYTICAL SOLUTIONS	 01/04/22 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

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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/08972
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014691
		DATE OF SAMPLING	02/03/2022 to 28/03/2022
		DATE OF RECEIPT	03/03/2022 to 29/03/2022
		DATE OF REPORT	01/04/2022
		DATE OF ANALYSIS	START: 04/03/2022 END: 01/04/2022
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021
SAMPLING LOCATION	NEAR DG STACK(CORE ZONE)		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, RUBBER BLADDER: 1X1 NO.		

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	88	47	16	22	1.1	N.D.
07.03.2022	78	42	14	30	0.8	N.D.
11.03.2022	82	30	18	28	1.2	N.D.
14.03.2022	56	48	12	22	0.6	N.D.
18.03.2022	80	32	10	24	1.2	N.D.
21.03.2022	78	36	18	28	0.4	N.D.
25.03.2022	64	40	14	32	0.8	N.D.
28.03.2022	88	38	12	36	0.2	N.D.

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

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[Signature]
01/04/22

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

[Signature]
01/04/22

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 & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08973	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/AAQM/014692	
		DATE OF SAMPLING	02/03/2022 to 28/03/2022	
		DATE OF RECEIPT	03/03/2022 to 29/03/2022	
		DATE OF REPORT	01/04/2022	
		DATE OF ANALYSIS	START: 04/03/2022	END: 01/04/2022
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	NEAR 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 ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 30MLX1 NO. PVC BOTTLE, NO ₂ : 30MLX1 NO. PVC BOTTLE, /RUBBER BLADDER: 1X1 NO.			

Test Method and NAAQM Standard for Ambient Air Quality Monitoring

Parameter	Method Reference	NAAQM Standard
Particulate Matter size less than 10 microns (PM ₁₀)	IS 5182 (Part 23): 2006 & CPCB Guidelines Vol.-I	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	IS 5182 (Part 24): 2019 & CPCB Guidelines Vol.-I	60
Sulphur Dioxide (SO ₂)	IS 5182 (Part 2): 2001, RA 2006 & CPCB Guidelines Vol.-I	80
Nitrogen Dioxide (NO ₂)	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 ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	CO* mg/m ³	Hg ng/m ³
02.03.2022	92	30	12	26	0.9	N.D.
07.03.2022	82	32	18	24	0.6	N.D.
11.03.2022	88	24	10	20	0.4	N.D.
14.03.2022	84	36	16	24	0.8	N.D.
18.03.2022	86	38	12	28	1.2	N.D.
21.03.2022	72	48	14	22	0.9	N.D.
25.03.2022	88	42	12	26	0.2	N.D.
28.03.2022	90	46	16	24	0.4	N.D.

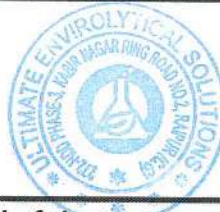
Remarks: * Duration of sampling for CO - 1 Hour, N.D. - Not Detected

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Phadp
01/04/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Chandrabh
01/04/22

AUTHORIZED SIGNATORY

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



HDD-272, Phase III - Near JP Chowk
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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08974	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014693	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
SAMPLE DETAILS				
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)	$\mu\text{g}/\text{m}^3$	374	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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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08975	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014694	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
SAMPLE DETAILS				
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)	$\mu\text{g}/\text{m}^3$	282	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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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/08976	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014695	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
SAMPLE DETAILS				
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)	$\mu\text{g}/\text{m}^3$	448	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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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08977	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014696	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
SAMPLE DETAILS				
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)	$\mu\text{g}/\text{m}^3$	428	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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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08978	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014697	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	COAL STOCK YARD			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH) : 1X1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	486	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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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08979	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014698	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
		SAMPLE DETAILS		
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)	$\mu\text{g}/\text{m}^3$	362	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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-----End of the test report-----



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08980	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014699	
		DATE OF SAMPLING	14/03/2022	
		DATE OF RECEIPT	15/03/2022	
		DATE OF REPORT	21/03/2022	
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022
SAMPLE DETAILS				
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)	$\mu\text{g}/\text{m}^3$	468	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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[Signature]
21/03/22

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[Signature]
21/03/22

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



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08981		
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FE/014700		
		DATE OF SAMPLING	14/03/2022		
		DATE OF RECEIPT	15/03/2022		
		DATE OF REPORT	21/03/2022		
		DATE OF ANALYSIS	START: 16/03/2022	END: 21/03/2022	
		SAMPLE DETAILS			
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)	$\mu\text{g}/\text{m}^3$	322	500	EPA Method IO-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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

Blue
21/03/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Tejendra
21/03/22

AUTHORIZED SIGNATORY

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



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08982
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/N/014701-014708
		DATE OF REPORT	21/03/2022
		DATE OF SAMPLING	14/03/2022 to 15/03/2022
		SAMPLE DETAILS	
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058, DATE:30-SEP-2021		
SAMPLING LOCATION	INSIDE COAL MINE & OUTSIDE COAL MINE (AS DESCRIBED BELOW)		
SAMPLE COLLECTED BY	LABORATORY CHEMIST		
SAMPLING PROCEDURE	MANUFACTURER'S INSTRUCTION		

TEST REPORT					
LOCATION	UNIT	RESULT		LIMIT (INDUSTRIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Inside Plant					
MINES OFFICE NEAR VTC	dB(A)	62.2	54.2	75	70
NEAR MAIN GATE	dB(A)	60.6	48.4		
NEAR DG STACK	dB(A)	70.8	52.6		
NEAR SUBSTATION	dB(A)	56.5	50.9		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
R & R COLONY, CHANDAN NAGAR	dB(A)	52.2	38.2	55	45
KATHAUTIYA VILLAGE	dB(A)	48.6	36.8		
BATSARA VILLAGE	dB(A)	46.7	32.4		
SIKKA VILLAGE	dB(A)	44.8	40.8		

REMARKS: RESULTS ARE AS ABOVE

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 21/03/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 21/03/22 AUTHORIZED SIGNATORY
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-----End of the test report-----



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<i>to Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/08983
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/W/014709-014710
		DATE OF SAMPLING	14/03/2022
		DATE OF RECEIPT	15/03/2022
		DATE OF REPORT	21/03/2022
		DATE OF ANALYSIS	START: 16/03/2022 END: 21/03/2022
		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.- 08983

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 nd Ed. 2012,2120-B,2-6	See 6 of Annexure-I	<1	<1
2	Odour	-	APHA 22 nd Ed. 2012,2120-B,2-6	See 6 of Annexure-I	Agreeable	Agreeable
3	Temperature	°C	APHA 22 nd Ed.2012,2130-B,2-13	Shall not exceed 5°C above the receiving water temperature	25.5	25.0
4	pH	-	APHA 22 nd Ed.2012,4500-H ⁺ -B,4-92	5.5 to 9.0	7.34	7.48
5	Total Residual Chlorine	mg/L	APHA 22 nd Ed.2012,4500-Cl-G,4-69	1.0	N.D.	N.D.
6	Total Suspended Solids	mg/L	APHA 22 nd Ed.2012,2540- D, 2-66	100	120.0	114.0
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	0.12	0.14
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	APHA 22 nd Ed.2012,3111-B, 3-18	5.0	0.12	0.18
11	Copper (as Cu)	mg/L	APHA 22 nd Ed.2012,3111-B, 3-18	3.0	N.D.	N.D.
12	Cadmium (as Cd)	mg/L	APHA 22 nd Ed.2012,3500-Cd, 3-105	2.0	N.D.	N.D.
13	Mercury (as Hg)	mg/L	APHA 22 nd Ed.2012,3112-B, 3-23	0.01	N.D.	N.D.



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REPORT NO.- 08983

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 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	134.0	64.0
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025(Part 44):1993, RA 2003	30	16.2	10.8
19	Oil & Grease	mg/L	IS 3025(Part 39):1991, RA 2003,	10.0	N.D.	N.D.
20	Phenolic Compounds (as C ₆ H ₅ OH)	mg/L	IS 3025(Part 43):1992, RA 2003	1.0	N.D.	N.D.
21	Total Dissolved Solids (as TDS)	mg/L	IS 3025(part-16):1984, RA 2006	-	252.2	348.6

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

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.

 21/03/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 21/03/22 AUTHORIZED SIGNATORY
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-----End of the test report-----