



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/21-22/05231
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/09327-09334
		DATE OF SAMPLING	03/12/2021 to 27/12/2021
		DATE OF RECEIPT	04/12/2021 to 28/12/2021
		DATE OF REPORT	01/01/2022
		DATE OF ANALYSIS	START:05/12/2021 END:01/01/2022
		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})	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
03.12.2021	72	26	10	18	0.7	N.D.
07.12.2021	64	22	09	20	0.5	N.D.
10.12.2021	52	28	06	28	1.0	N.D.
14.12.2021	70	24	10	22	0.6	N.D.
17.12.2021	64	26	12	26	0.9	N.D.
21.12.2021	78	22	14	24	0.7	N.D.
24.12.2021	62	24	10	22	1.2	N.D.
27.12.2021	78	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. Validity: 30 days.

 01/01/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 01/01/2022 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
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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/05232	
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/09335-09342	
		DATE OF SAMPLING	03/12/2021 to 27/12/2021	
		DATE OF RECEIPT	04/12/2021 to 28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 05/12/2021	END: 01/01/2022
		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})	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
03.12.2021	68	26	10	24	0.8	N.D.
07.12.2021	60	20	09	28	0.2	N.D.
10.12.2021	66	24	06	20	0.6	N.D.
14.12.2021	62	28	12	26	0.5	N.D.
17.12.2021	68	20	14	22	0.4	N.D.
21.12.2021	70	26	10	28	0.2	N.D.
24.12.2021	66	22	16	24	0.9	N.D.
27.12.2021	65	24	18	22	0.7	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 details only.

 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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Name & Address of The Customer		REPORT NO	UES/TR/21-22/05233
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/09343-09350
		DATE OF SAMPLING	03/12/2021 to 27/12/2021
		DATE OF RECEIPT	04/12/2021 to 28/12/2021
		DATE OF REPORT	01/01/2022
		DATE OF ANALYSIS	START: 05/12/2021 END: 01/01/2022
		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})	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
03.12.2021	62	20	12	22	1.1	N.D.
07.12.2021	70	24	10	20	0.8	N.D.
10.12.2021	66	30	14	26	0.7	N.D.
14.12.2021	74	28	10	24	0.2	N.D.
17.12.2021	60	22	08	22	0.8	N.D.
21.12.2021	52	34	10	28	0.6	N.D.
24.12.2021	50	28	16	25	0.7	N.D.
27.12.2021	66	30	12	20	0.6	N.D.

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

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 01/01/22 REVIEWED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 01/01/2022 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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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/05234	
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/09351-0958	
		DATE OF SAMPLING	03/12/2021 to 27/12/2021	
		DATE OF RECEIPT	04/12/2021 to 28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 05/12/2021	END: 01/01/2022
		SAMPLE DETAILS		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	SIRKA 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})	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
03.12.2021	78	28	12	22	0.9	N.D.
07.12.2021	76	20	10	20	0.5	N.D.
10.12.2021	72	22	06	26	0.6	N.D.
14.12.2021	50	26	10	28	0.8	N.D.
17.12.2021	78	30	09	22	1.0	N.D.
21.12.2021	66	24	18	26	0.8	N.D.
24.12.2021	58	28	12	20	0.4	N.D.
27.12.2021	62	22	10	28	0.9	N.D.

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

Terms & conditions

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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
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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/05235	
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/09359-09366	
		DATE OF SAMPLING	03/12/2021 to 27/12/2021	
		DATE OF RECEIPT	04/12/2021 to 28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 05/12/2021	END: 01/01/2022
		SAMPLE DETAILS		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/005B 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})	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
03.12.2021	60	30	10	26	1.0	N.D.
07.12.2021	66	28	14	22	0.6	N.D.
10.12.2021	60	20	16	18	1.2	N.D.
14.12.2021	68	22	08	20	1.1	N.D.
17.12.2021	54	20	10	28	0.9	N.D.
21.12.2021	66	28	19	24	1.2	N.D.
24.12.2021	52	22	16	26	0.8	N.D.
27.12.2021	67	28	10	28	1.6	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 only.

REVIEWED BY

Phanish
01/01/22



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Phanish
01/01/2022
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/21-22/05236
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/09367-09374
		DATE OF SAMPLING	03/12/2021 to 27/12/2021
		DATE OF RECEIPT	04/12/2021 to 28/12/2021
		DATE OF REPORT	01/01/2022
		DATE OF ANALYSIS	START:05/12/2021 END:01/01/2022
		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})	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
03.12.2021	70	22	10	26	0.9	N.D.
07.12.2021	66	24	14	20	0.6	N.D.
10.12.2021	72	32	16	24	1.2	N.D.
14.12.2021	60	38	10	22	1.0	N.D.
17.12.2021	68	22	18	28	0.8	N.D.
21.12.2021	72	36	12	20	1.2	N.D.
24.12.2021	64	28	16	26	1.4	N.D.
27.12.2021	70	30	10	28	0.6	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.

Shreeff
01/01/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Shreeff
01/01/2022

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/21-22/05237	
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/09375-09382	
		DATE OF SAMPLING	03/12/2021 to 27/12/2021	
		DATE OF RECEIPT	04/12/2021 to 28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START:05/12/2021	END:01/01/2022
		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})	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 10-5	--

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
03.12.2021	70	22	10	26	0.7	N.D.
07.12.2021	58	28	18	22	0.9	N.D.
10.12.2021	66	22	10	28	1.0	N.D.
14.12.2021	74	28	16	20	0.9	N.D.
17.12.2021	58	22	12	28	1.2	N.D.
21.12.2021	52	26	08	26	0.7	N.D.
24.12.2021	56	20	12	20	0.4	N.D.
27.12.2021	60	28	10	28	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 report.

Plum
01/01/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Chauhan
01/01/2022

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/21-22/05238	
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/09383-09390	
		DATE OF SAMPLING	03/12/2021 to 27/12/2021	
		DATE OF RECEIPT	04/12/2021 to 28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 05/12/2021	END: 01/01/2022
		SAMPLE DETAILS		
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	R/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})	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
03.12.2021	66	22	10	26	0.7	N.D.
07.12.2021	52	28	16	24	0.9	N.D.
10.12.2021	58	26	10	28	0.5	N.D.
14.12.2021	54	18	08	22	0.4	N.D.
17.12.2021	66	24	10	28	1.2	N.D.
21.12.2021	52	20	18	20	0.9	N.D.
24.12.2021	58	26	14	26	0.7	N.D.
27.12.2021	50	20	10	28	0.5	N.D.

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

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Phuraf
01/01/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Phuraf
01/01/2022

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

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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/05239		
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/FR/09391		
		DATE OF SAMPLING	27/12/2021		
		DATE OF RECEIPT	28/12/2021		
		DATE OF REPORT	01/01/2022		
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022	
		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)	$\mu\text{g}/\text{m}^3$	324	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.

Plankh
01/01/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Chandana
01/01/2022

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/21-22/05240		
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/09392		
		DATE OF SAMPLING	27/12/2021		
		DATE OF RECEIPT	28/12/2021		
		DATE OF REPORT	01/01/2022		
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022	
		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)	$\mu\text{g}/\text{m}^3$	296	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/21-22/05241	
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/09393	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
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)	$\mu\text{g}/\text{m}^3$	396	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/21-22/05242	
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/09394	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
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): LXI 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.

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



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/21-22/05243	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		LAB REF NO	UES/21-22/EE/09395	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
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)	$\mu\text{g}/\text{m}^3$	312	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]
01/01/22

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[Signature]
01/01/2022

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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/21-22/05244	
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/09396	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
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) : 1XI NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	352	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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Plumoff
01/01/22

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For ULTIMATE ENVIROLYTICAL SOLUTIONS

Chakraborty
01/01/2022

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



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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/21-22/05245	
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/09397	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	N/PO/SRV/2122/0058 DATE: 30-SEP-2021	
SAMPLING LOCATION	RAJHARA RAILWAY SIDING			
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)	$\mu\text{g}/\text{m}^3$	402	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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Plindf
01/01/22
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For ULTIMATE ENVIROLYTICAL SOLUTIONS

Chauhan
01/01/2022
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-----End of the test report-----



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Ring Road No.-2, Kabir Nagar, Raipur (C.G.) - 492099
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To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT. - PALAMU (JH)		REPORT NO	UES/TR/21-22/05246	
		LAB REF NO	UES/21-22/FE/09398	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
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)	$\mu\text{g}/\text{m}^3$	346	500	EPA Method 10-2.1

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

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Name & Address Of The Customer		REPORT NO	UES/TR/21-22/05247
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/09399-09406
		DATE OF REPORT	01/01/2022
		DATE OF SAMPLING	27/12/2021 to 28/12/2021
		SAMPLE DETAILS	
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	K/PO/SRV/2122/0050, 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)	64.2	52.0	75	70
NEAR MAIN GATE	dB(A)	68.6	46.6		
NEAR DG STACK	dB(A)	60.5	54.4		
NEAR SUBSTATION	dB(A)	58.7	42.8		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
R & R COLONY, CHANDAN NAGAR	dB(A)	50.2	34.7	55	45
KATHAUTIYA VILLAGE	dB(A)	46.6	32.2		
BATSARA VILLAGE	dB(A)	42.5	36.9		
SIRKA VILLAGE	dB(A)	40.8	34.8		

REMARKS: RESULTS ARE AS ABOVE

Terms & conditions

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Phuadp
01/01/22

REVIEWED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Chandana
01/01/2022
AUTHORIZED SIGNATORY

-----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/21-22/05248	
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/09407-09408	
		DATE OF SAMPLING	27/12/2021	
		DATE OF RECEIPT	28/12/2021	
		DATE OF REPORT	01/01/2022	
		DATE OF ANALYSIS	START: 28/12/2021	END: 01/01/2022
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.- 05248

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
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, 2130-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	23.8	22.8
4	pH	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92	5.5 to 9.0	7.28	7.10
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	82.0	96.0
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	0.18	0.06
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	0.22	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.

REPORT NO.- 05248

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	SUMP WATER PIT-D	WORKSHO P ETP WATER
14	Arsenic (as As)	mg/L	APHA 22 nd Ed.2012, 3114-C, 3-38	0.2	N.D.	N.D.
15	Selenium (as Se)	mg/L	APHA 22 nd Ed.2012, 3114-C, 3-38	0.05	N.D.	N.D.
16	Total Chromium (as Cr)	mg/L	APHA 22 nd Ed.2012, 3500-Cr-B, 3-69	2.0	N.D.	N.D.
17	Chemical Oxygen Demand (COD)	mg/L	APHA 22 nd Ed.2012, 5520-B, 5-17	250	124.0	86.0
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025(Part 44):1993, RA 2003	30	10.2	4.8
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	-	246.0	312.8

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.

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