



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/20-21/03924
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAR REF NO	UES/20-21/AAQM/03609
		DATE OF SAMPLING	04/01/2021 to 29/01/2021
		DATE OF RECEIPT	05/01/2021 to 30/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 05/01/2021 END: 02/02/2021
SAMPLER DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 15/07/2020
SAMPLING LOCATION	R & R COLONY, CHANDAN NAGAR (INDIPER SCHEM)		
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 BUBBLER READER: 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, SA 2008 & 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, SA 2003	4.0
Mercury (Hg)	FRS Method 10-E	-

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
04.01.2021	49	18	10	20	0.8	N.D.
08.01.2021	45	26	05	18	0.6	N.D.
11.01.2021	42	20	12	26	1.0	N.D.
15.01.2021	56	19	10	20	1.1	N.D.
18.01.2021	40	26	16	24	1.3	N.D.
22.01.2021	54	24	08	25	1.0	N.D.
25.01.2021	40	20	14	18	0.8	N.D.
29.01.2021	56	22	10	22	1.0	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 only.

 PREPARED BY	 ULTIMATE ENVIRONMENTAL 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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Name & Address of The Customer		REPORT NO	UES/TR/20-21/03925
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/AAQM/03610
		DATE OF SAMPLING	04/01/2021 to 29/01/2021
		DATE OF RECEIPT	05/01/2021 to 30/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 05/01/2021 END: 02/02/2021
SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SKV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	KATHAUTIA VILLAGE (PUPUR BOWE)		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	SLACKER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : JOMEXI NO. PVC BOTTLE, NO ₂ : JOMEXI NO. PVC BOTTLE RUBBER BALLON: 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 5): 2006 & CPCB Guidelines Vol.-I	80
Carbon Monoxide (CO)*	IS 5182 (Part 10): 1999, RA 2003	4.0
Mercury (Hg)	EPA Method 10-3	---

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
04.01.2021	52	20	08	16	0.8	N.D.
08.01.2021	46	16	10	22	0.6	N.D.
11.01.2021	54	18	08	18	1.0	N.D.
15.01.2021	48	26	10	24	0.9	N.D.
18.01.2021	50	24	14	20	1.2	N.D.
22.01.2021	42	22	12	26	1.1	N.D.
25.01.2021	46	20	16	18	1.0	N.D.
29.01.2021	50	22	14	22	1.4	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.

Thakur
02/02/2021
PREPARED BY



For ULTIMATE ENVIRONMENTAL SOLUTIONS
Chandrabir
02/02/2021
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/20-21/03926	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAD REF NO	UES/20-21/AAQM/03611	
		DATE OF SAMPLING	04/01/2021 to 29/01/2021	
		DATE OF RECEIPT	05/01/2021 to 30/01/2021	
		DATE OF REPORT	02/02/2021	
		DATE OF ANALYSIS	START: 05/01/2021	END: 02/02/2021
SAMPLER DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
SAMPLING LOCATION	BATSARA VILLAGE (SUFFER 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 BLOWER: 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 5): 2006 & CPCB Guidelines Vol.-I	80
Carbon Monoxide (CO)*	IS 5182 (Part 10): 1999, RA 2003	4.0
Mercury (Hg)	EPA Method 10-3	--

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
04.01.2021	54	26	16	18	1.0	N.D.
08.01.2021	42	18	12	26	1.1	N.D.
11.01.2021	50	24	10	20	0.8	N.D.
15.01.2021	42	20	14	24	1.4	N.D.
18.01.2021	48	18	10	18	1.2	N.D.
22.01.2021	56	26	12	26	1.0	N.D.
25.01.2021	50	24	16	10	1.1	N.D.
29.01.2021	42	20	12	22	1.4	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 prohibited.
- Test sample will be retained for 15 days after issue of report, unless otherwise agreed with customer.
- This is for information as the party has asked for at the time of sampling.

 PREPARED 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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Name & Address of The Customer		REPORT NO	UES/TR/20-21/03927	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/AAQM/03612	
		DATE OF SAMPLING	04/01/2021 to 29/01/2021	
		DATE OF RECEIPT	05/01/2021 to 30/01/2021	
		DATE OF REPORT	02/02/2021	
		DATE OF ANALYSIS	START: 05/01/2021	END: 02/02/2021
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	X/00/SRV/2021/5033 DATED: 16/07/2020	
SAMPLING LOCATION	SINGA VILLAGE (BUFFER ZONE)			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURES	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/RACKING	FILTER PAPER (PM ₁₀): 1KI NO., FILTER PAPER (PM _{2.5}): 1KI NO. SO ₂ : 30MLKI NO. PVC BOTTLE, NO ₂ : 30MLKI NO. PVC BOTTLE MERCURY MANAGER: 1KI 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. 1	80
Nitrogen Dioxide (NO ₂)	IS 5182 (Part 6): 2006 & CPCB Guidelines Vol. 1	80
Carbon Monoxide (CO)*	IS 5182 (Part 10): 1999, RA 2003	4.0
Mercury (Hg)	EPA Method 16-5	--

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
04.01.2021	62	20	08	26	1.1	N.D.
08.01.2021	58	22	10	18	1.0	N.D.
11.01.2021	46	18	12	26	1.2	N.D.
15.01.2021	54	24	14	20	1.1	N.D.
18.01.2021	46	20	12	26	1.4	N.D.
22.01.2021	52	26	14	22	1.1	N.D.
25.01.2021	42	18	10	20	1.6	N.D.
29.01.2021	40	22	08	26	1.0	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.

 02/02/2021 PREPARED BY		For ULTIMATE ENVIRONMENTAL SOLUTIONS 02/02/2021 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

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

Name & Address Of The Customer		REPORT NO	UES/TR/20-21/03928
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/AACM/03613
		DATE OF SAMPLING	04/01/2021 to 29/01/2021
		DATE OF RECEIPT	05/01/2021 to 30/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 05/01/2021 END: 02/02/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
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 BLAUNDER: 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.-1	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines Vol. 1	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 70-b	--

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
04.01.2021	64	22	08	24	0.8	N.D.
06.01.2021	68	20	12	22	1.1	N.D.
11.01.2021	56	24	14	22	1.2	N.D.
15.01.2021	64	22	12	26	1.6	N.D.
18.01.2021	66	26	14	18	1.1	N.D.
22.01.2021	62	30	08	20	1.4	N.D.
25.01.2021	72	28	16	24	0.8	N.D.
29.01.2021	58	26	14	28	0.6	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 only.

PREPARED BY
[Signature]
02/02/2021



For ULTIMATE ENVIRONMENTAL SOLUTIONS

AUTHORIZED SIGNATORY
[Signature]
02/02/2021

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/20-21/03929
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/AAQM/03614
		DATE OF SAMPLING	04/01/2021 to 29/01/2021
		DATE OF RECEIPT	05/01/2021 to 30/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 05/01/2021 END: 02/02/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	R/PO/ERV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	NEAR MAIN GATE (CORN KONG)		
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.-7	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
04.01.2021	62	28	12	26	1.0	N.D.
08.01.2021	56	26	14	20	1.2	N.D.
11.01.2021	62	18	12	24	1.1	N.D.
15.01.2021	52	24	10	23	1.4	N.D.
18.01.2021	56	20	08	26	1.2	N.D.
22.01.2021	52	26	14	18	1.0	N.D.
25.01.2021	54	28	10	26	0.8	N.D.
29.01.2021	58	30	12	22	1.1	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 observation.

 02/02/2021 PREPARED BY	 ULTIMATE ENVIRONMENTAL SOLUTIONS	For ULTIMATE ENVIRONMENTAL SOLUTIONS 02/02/2021 AUTHORIZED SIGNATORY
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End of the test report



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

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

Name & Address of the Customer		REPORT NO	UES/TR/20-21/03930
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDINA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/AAQM/03615
		DATE OF SAMPLING	04/01/2021 to 29/01/2021
		DATE OF RECEIPT	05/01/2021 to 30/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 05/01/2021 END: 02/02/2021
SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/5033 DATED: 16/07/2020
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.-1	100
Particulate Matter size less than 2.5 microns (PM _{2.5})	CPCB Guidelines Vol.-1	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	00
Carbon Monoxide (CO)*	IS 5182 (Part 10): 1999, RA 2003	4.0
Mercury (Hg)	MPA 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
04.01.2021	56	20	09	22	0.8	N.D.
08.01.2021	54	26	12	24	1.0	N.D.
11.01.2021	62	22	10	18	1.4	N.D.
15.01.2021	58	20	14	26	1.1	N.D.
18.01.2021	62	26	10	20	1.2	N.D.
22.01.2021	60	20	12	18	1.0	N.D.
25.01.2021	54	26	10	26	1.6	N.D.
29.01.2021	56	20	16	22	1.1	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 a copy of the report.

 PREPARED BY 02/02/2021		For ULTIMATE ENVIRONMENTAL SOLUTIONS AUTHORIZED SIGNATORY 02/02/2021
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End of the test report



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

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

Name & Address Of The Customer		REPORT NO	UES/TR/20-21/03931
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/AAQM/03616
		DATE OF SAMPLING	04/01/2021 to 29/01/2021
		DATE OF RECEIPT	05/01/2021 to 30/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 05/01/2021 RND: 02/02/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/ERV/2021/0023 DATED: 16/07/2020
SAMPLING LOCATION	NEAR SUBSTATION(CORE ZONE)		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURES	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	FILTER PAPER (PM ₁₀): 1X1 NO., FILTER PAPER (PM _{2.5}): 1X1 NO. SO ₂ : 50MLX1 NO. PVC BOTTLE, NO ₂ : 50MLX1 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. 1	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
04.01.2021	62	24	16	20	1.1	N.D.
08.01.2021	50	30	12	26	1.2	N.D.
11.01.2021	56	26	14	20	0.8	N.D.
15.01.2021	52	28	10	22	1.4	N.D.
18.01.2021	46	30	12	24	0.8	N.D.
22.01.2021	44	24	16	22	1.4	N.D.
25.01.2021	48	28	08	26	1.2	N.D.
29.01.2021	42	26	14	28	1.0	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 about.

Prepared by
02/02/2021



For ULTIMATE ENVIRONMENTAL SOLUTIONS
02/02/2021
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/20-21/03932
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/FE/03617
		DATE OF SAMPLING	27/01/2021
		DATE OF RECEIPT	28/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	STARTY: 28/01/2021 END: 02/02/2021
SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/EO/SRV/2021/0033 DATED: 16/01/2020
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	ONE FILTER PAPER (9 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)	$\mu\text{g}/\text{m}^3$	340	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 (Request) only.

Prepared by
02/02/2021
PREPARED BY



For ULTIMATE ENVIRONMENTAL SOLUTIONS
Authorized Signatory
02/02/2021
AUTHORIZED SIGNATORY

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



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Name & Address of The Customer		REPORT NO	UES/TR/20-21/03933
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/FE/03618
		DATE OF SAMPLING	27/01/2021
		DATE OF RECEIPT	28/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 28/01/2021 END: 02/02/2021
SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/GRV/2021/0033 DATED: 14/07/2020
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)	$\mu\text{g}/\text{m}^3$	362	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/20-21/03934	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/FE/03619	
		DATE OF SAMPLING	27/01/2021	
		DATE OF RECEIPT	28/01/2021	
		DATE OF REPORT	02/02/2021	
		DATE OF ANALYSIS	START: 28/01/2021	END: 02/02/2021
SAMPLE DETAILS				
MONITORING PLAN	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	R/PO/SRV/2021/0033 DATED: 16/01/2020	
SAMPLING LOCATION	PIT "C"			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH) : 7X1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	384	500	EPA Method 10-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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Name & Address Of The Customer		REPORT NO	UES/TR/20-21/03935
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/FR/03620
		DATE OF SAMPLING	27/01/2021
		DATE OF RECEIPT	28/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 28/01/2021 END: 02/02/2021
SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/DO/SRV/2021/0033 DATED: 15/07/2020
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 TSP)	$\mu\text{g}/\text{m}^3$	356	500	EPA Method IO-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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Name & Address of the Customer		REPORT NO	UES/TR/20-21/03936
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/FE/03621
		DATE OF SAMPLING	27/01/2021
		DATE OF RECEIPT	28/01/2021
		DATE OF REPORT	02/02/2021
		DATE OF ANALYSIS	START: 28/01/2021 END: 02/02/2021
SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	COAL STOCK YARD		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH) : 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	342	500	EPA Method IO-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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PREPARED BY

Deepanshu
02/02/2021



For ULTIMATE ENVIROLYTICAL SOLUTIONS

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Deepanshu
02/02/2021

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



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Name & Address of Test Customer To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)	REPORT NO	UES/TR/20-21/03937	
	LAB REF NO	UES/20-21/FE/03622	
	DATE OF SAMPLING	27/01/2021	
	DATE OF RECEIPT	28/01/2021	
	DATE OF REPORT	02/02/2021	
	DATE OF ANALYSIS	START: 28/01/2021	END: 02/02/2021

SAMPLE DETAILS

MONITORING FOR	WORK SITE MONITORING	CUSTOMER REF. NO. & DATE	F/PO/SRV/2021/0033 DATED: 16/07/2020
SAMPLING LOCATION	HAUL ROAD		
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST
SAMPLING PROCEDURE	AS PER METHOD REFERENCE		
SAMPLE QUANTITY/PACKING	GMP FILTER PAPER (8 X 10 INCH) : 1X1 NO.		

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	368	500	EPA Method IO-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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End of the test report



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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/20-21/03938	
	LAB REF NO	UES/20-21/FE/03623	
	DATE OF SAMPLING	27/01/2021	
	DATE OF RECEIPT	28/01/2021	
	DATE OF REPORT	02/02/2021	
	DATE OF ANALYSIS	START: 28/01/2021	END: 02/02/2021

SAMPLE DETAILS

MONITORING FOR	WEEK WORK MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/01/2020
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 (9 X 10 INCH): 1X7 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 ³	356	500	EPA Method 10-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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Name & Address of The Customer		REPORT NO	UES/TR/20-21/03939	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAD REF NO	UES/20-21/FE/03624	
		DATE OF SAMPLING	27/01/2021	
		DATE OF RECEIPT	28/01/2021	
		DATE OF REPORT	02/02/2021	
		DATE OF ANALYSIS	START: 28/01/2021	END: 02/02/2021
SAMPLE DETAILS				
MONITORING FUN	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
SAMPLING LOCATION	TRUCK PARKING ZONE			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMS FILTER PAPER (9 X 10 INCH): 1X7 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as TSP)	$\mu\text{g}/\text{m}^3$	338	500	EPA Method IO-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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02/02/2021



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02/02/2021

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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/03940
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	UES/20-21/N/03625
		DATE OF REPORT	02/02/2021
		DATE OF SAMPLING	27/01/2021 to 28/01/2021
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	K/20/SR/2021/0033, DATED: 16/07/2020		
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)	54.2	46.4	75	70
NEAR MAIN GATE	dB(A)	62.4	50.4		
NEAR DG SPACE	dB(A)	66.2	40.8		
NEAR SUBSTATION	dB(A)	60.8	52.2		
LOCATION	UNIT	RESULT		LIMIT (RESIDENTIAL ZONE)	
		DAY TIME	NIGHT TIME	DAY TIME	NIGHT TIME
Outside Plant					
R & R COLONY, CHANDAN NAGAR	dB(A)	46.2	36.8	55	45
KATHAUTIYA VILLAGE	dB(A)	50.8	40.2		
BATSARA VILLAGE	dB(A)	44.6	36.4		
SIRKA VILLAGE	dB(A)	52.4	32.8		

REMARKS: RESULTS ARE AS ABOVE

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

 PREPARED BY 02/02/2021		For ULTIMATE ENVIROLYTICAL SOLUTIONS AUTHORIZED SIGNATORY 02/02/2021
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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/20-21/03941	
To, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		Lab Ref No	UES/20-21/W/03626	
		Date of Sampling	27/01/2021	
		Date of Receipt	29/01/2021	
		Date of Report	02/02/2021	
		Date of Analysis	Start:29/01/2021	End:02/02/2021
SAMPLE DETAILS				
Customer Sample ID	1. Near Workshop 2. Sump Water Pit-D	Customer Ref. No. & Date	K/PO/SRV/2021/0033 DATED: 16/07/2020	
Sample Type	Effluent Water	Sample Condition At Receipt	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.- 03941

TEST REPORT						
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	NEAR WORK SHOP	SUMP WATER PIT-D
1	Colour	Hzon	APHA 22 nd Ed. 2012, 2120-B, 3-6	See 6 of Annexure-I	<1	<1
2	Odour		APHA 22 nd Ed. 2012, 2120-B, 4-6	See 6 of Annexure-I	Agreeable	Agreeable
3	Temperature	°C	APHA 22 nd Ed. 2012, 2130-B, 2-13	Shall not exceed 3°C above the receiving water temperature	25.3	25.2
4	pH	-	APHA 22 nd Ed. 2012, 4500-H ⁺ B, 4-92	5.5 to 9.0	7.30	7.52
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	24.0	26.0
7	Dissolved Phosphate (as P)	mg/l	APHA 22 nd Ed. 2012, 4500-P-C, 4-103	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	0.06	0.11
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, 3-16	5.0	0.10	0.14
11	Copper (as Cu)	mg/L	APHA 22 nd Ed. 2012, 3111-B, 3-18	2.0	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, 3117-B, 3-23	0.01	N.D.	N.D.
14	Arsenic (as As)	mg/l	APHA 22 nd Ed. 2012, 3116-C, 3-36	0.2	N.D.	N.D.

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REPORT NO.- 03941

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 (SCHEDULE-VI) PART-A INLAND SURFACE WATER	NEAR WORK SHOP	SUMP WATER PIT-D
15	Selenium (as Se)	mg/l	APHA 22 nd Ed.2012, 3114-C, 3-30	0.05	N.D.	N.D.
16	Total Chromium (as Cr)	mg/l	APHA 22 nd Ed.2012, 3500-Cr-R, 3-69	2.0	N.D.	N.D.
17	Chemical Oxygen Demand (COD)	mg/l	APHA 22 nd Ed.2012, 1920-B, 5-17	250	60.0	56.0
18	Biochemical Oxygen Demand (BOD)	mg/l	IS 3025 (Part 4):1983, RA 2003	30	14.5	12.9
19	Oil & Grease	mg/l	IS 3025 (Part 59):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):1994, RA 2003	-	284	374

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

REMARKS: RESULTS ARE AS ABOVE

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