



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/20-21/04979
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/04075
		DATE OF SAMPLING	01/03/2021 to 26/03/2021
		DATE OF RECEIPT	02/03/2021 to 27/03/2021
		DATE OF REPORT	01/04/2021
		DATE OF ANALYSIS	START: 03/03/2021 END: 31/03/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
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 : 30MLKI NO. PVC BOTTLE, NO ₂ : 30MLKI 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
01.03.2021	50	22	10	20	1.1	N.D.
05.03.2021	48	26	08	26	0.6	N.D.
08.03.2021	46	28	10	22	1.0	N.D.
12.03.2021	54	22	06	28	1.4	N.D.
15.03.2021	52	20	10	20	1.2	N.D.
19.03.2021	66	28	12	24	1.0	N.D.
22.03.2021	52	24	14	26	0.8	N.D.
26.03.2021	48	22	08	22	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 report unless otherwise agreed with customer.
- This is for information as the party has asked for.

 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
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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/20-21/04980	
	LAB REF NO	UES/20-21/AAQM/04076	
	DATE OF SAMPLING	01/03/2021 to 26/03/2021	
	DATE OF RECEIPT	02/03/2021 to 27/03/2021	
	DATE OF REPORT	01/04/2021	
	DATE OF ANALYSIS	START: 03/03/2021	END: 31/03/2021
SAMPLE DETAILS			
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/HRV/2021/0033 DATED: 16/07/2020
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): 1XI NO., FILTER PAPER (PM _{2.5}): 1XI NO. SO ₂ : 30MLXI NO. PVC BOTTLE, NO ₂ : 30MLXI NO. PVC BOTTLE RUBBER BLADDER: 1XI 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
01.03.2021	56	28	16	24	0.6	N.D.
05.03.2021	50	22	12	22	0.8	N.D.
08.03.2021	58	24	18	20	1.0	N.D.
12.03.2021	52	20	12	18	1.2	N.D.
15.03.2021	50	22	10	20	1.0	N.D.
19.03.2021	48	28	08	22	1.4	N.D.
22.03.2021	46	24	06	18	0.8	N.D.
26.03.2021	54	26	08	20	1.2	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.

 01/04/2021 PREPARED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS 01/04/2021 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
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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/20-21/04981	
	LAB REF NO	UES/20-21/AAQM/04077	
	DATE OF SAMPLING	01/03/2021 to 26/03/2021	
	DATE OF RECEIPT	02/03/2021 to 27/03/2021	
	DATE OF REPORT	01/04/2021	
	DATE OF ANALYSIS	START: 03/03/2021	END: 31/03/2021

SAMPLE DETAILS

MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
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): 1XI NO., FILTER PAPER (PM _{2.5}): 1XI NO. SO ₂ : 30MLXI NO. PVC BOTTLE, NO ₂ : 30MLXI NO. PVC BOTTLE RUBBER BLADDER: 1XI 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
01.03.2021	58	26	10	26	1.0	N.D.
05.03.2021	48	24	12	22	1.2	N.D.
08.03.2021	56	20	10	18	1.0	N.D.
12.03.2021	42	26	14	24	0.8	N.D.
15.03.2021	48	28	08	22	0.6	N.D.
19.03.2021	42	20	06	16	1.1	N.D.
22.03.2021	48	22	10	18	1.2	N.D.
26.03.2021	40	20	12	22	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 analysis.

 01/04/2021 PREPARED BY		For ULTIMATE ENVIROLYTICAL SOLUTIONS  01/04/2021 AUTHORIZED SIGNATORY
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End of the test report



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04982
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/04078
		DATE OF SAMPLING	01/03/2021 to 26/03/2021
		DATE OF RECEIPT	02/03/2021 to 27/03/2021
		DATE OF REPORT	01/04/2021
		DATE OF ANALYSIS	START: 03/03/2021 END: 31/03/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SKV/2021/0033 DATED: 16/07/2020
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 RUSSER 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
01.03.2021	66	22	12	26	1.2	N.D.
05.03.2021	62	18	10	28	1.6	N.D.
08.03.2021	50	22	08	24	1.0	N.D.
12.03.2021	58	24	06	20	1.8	N.D.
15.03.2021	48	25	10	26	1.2	N.D.
19.03.2021	56	20	12	22	1.0	N.D.
22.03.2021	42	28	18	18	1.6	N.D.
26.03.2021	44	22	16	22	1.4	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.

 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

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

TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		REPORT NO	UES/TR/20-21/04983	
		LAB REF NO	UES/20-21/AAQM/04079	
		DATE OF SAMPLING	01/03/2021 to 26/03/2021	
		DATE OF RECEIPT	02/03/2021 to 27/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 03/03/2021	END: 31/03/2021
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): 1XI NO., FILTER PAPER (PM _{2.5}): 1XI NO. SO ₂ : 30MLXI NO. PVC BOTTLE, NO ₂ : 30MLXI NO. PVC BOTTLE RUBBER BLADDER: 1XI 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
01.03.2021	68	28	08	28	1.2	N.D.
05.03.2021	72	20	12	22	1.0	N.D.
08.03.2021	62	24	14	18	1.6	N.D.
12.03.2021	64	20	10	22	1.2	N.D.
15.03.2021	66	26	18	20	1.0	N.D.
19.03.2021	60	28	12	26	1.4	N.D.
22.03.2021	74	24	10	22	0.8	N.D.
26.03.2021	62	24	14	20	0.6	N.D.

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

Terms & conditions

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

Prepared by
PREPARED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Authorized Signatory
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/20-21/04984
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/04080
		DATE OF SAMPLING	01/03/2021 to 26/03/2021
		DATE OF RECEIPT	02/03/2021 to 27/03/2021
		DATE OF REPORT	01/04/2021
		DATE OF ANALYSIS	START: 03/03/2021 END: 31/03/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
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): 1XI NO., FILTER PAPER (PM _{2.5}): 1XI NO. SO ₂ : 30MLXI NO. PVC BOTTLE, NO ₂ : 30MLXI NO. PVC BOTTLE RUBBER BLADDER: 1XI 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
01.03.2021	62	24	10	20	1.0	N.D.
05.03.2021	54	26	16	24	1.2	N.D.
08.03.2021	60	22	12	28	1.4	N.D.
12.03.2021	54	20	18	20	1.6	N.D.
15.03.2021	52	24	12	26	1.0	N.D.
19.03.2021	50	26	14	24	0.8	N.D.
22.03.2021	58	24	10	20	1.2	N.D.
26.03.2021	66	30	16	22	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 analysis only.

Thakurs
01/04/2021
PREPARED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Thakurs
01/04/2021
AUTHORIZED SIGNATORY

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

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

<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04985	
TO, HINDALCO INDUSTRIES LIMITED, KATHAUTIA OPEN CAST COAL MINES, POST - NAUDIHA, P.S. PANDWA, DALTONGANJ, DISTT.- PALAMU (JH)		LAB REF NO	URS/20-21/AAQM/04081	
		DATE OF SAMPLING	01/03/2021 to 26/03/2021	
		DATE OF RECEIPT	02/03/2021 to 27/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 03/03/2021	END: 31/03/2021
SAMPLE DETAILS				
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
SAMPLING LOCATION	NEAR DG STACK(CORE BONE)			
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
01.03.2021	56	26	08	22	1.0	N.D.
05.03.2021	52	20	10	24	1.2	N.D.
08.03.2021	60	22	16	18	1.4	N.D.
12.03.2021	54	28	10	22	1.0	N.D.
15.03.2021	68	20	18	24	1.6	N.D.
19.03.2021	62	26	12	28	1.0	N.D.
22.03.2021	50	24	14	20	1.2	N.D.
26.03.2021	56	20	16	26	0.8	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.

 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

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

<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04986
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/04082
		DATE OF SAMPLING	01/03/2021 to 26/03/2021
		DATE OF RECEIPT	02/03/2021 to 27/03/2021
		DATE OF REPORT	01/04/2021
		DATE OF ANALYSIS	START: 03/03/2021 END: 31/03/2021
		SAMPLE DETAILS	
MONITORING FOR	AMBIENT AIR QUALITY MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
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
01.03.2021	66	24	10	28	1.0	N.D.
05.03.2021	54	28	16	20	1.4	N.D.
08.03.2021	60	20	10	26	1.6	N.D.
12.03.2021	56	26	14	20	1.2	N.D.
15.03.2021	50	24	18	24	1.0	N.D.
19.03.2021	48	22	12	20	1.4	N.D.
22.03.2021	52	28	16	26	1.2	N.D.
26.03.2021	46	30	14	22	1.6	N.D.

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

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-----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/20-21/04987	
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/04083	
		DATE OF SAMPLING	19/03/2021	
		DATE OF RECEIPT	20/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021
		SAMPLE DETAILS		
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
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	GMF FILTER PAPER (8 X 10 INCH) : IX1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	334	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/20-21/04988
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/04084
		DATE OF SAMPLING	19/03/2021
		DATE OF RECEIPT	20/03/2021
		DATE OF REPORT	01/04/2021
		DATE OF ANALYSIS	START: 22/03/2021 END: 31/03/2021
		SAMPLE DETAILS	
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020
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)	$\mu\text{g}/\text{m}^3$	354	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/20-21/04989	
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/04085	
		DATE OF SAMPLING	19/03/2021	
		DATE OF RECEIPT	20/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021
SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
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): LKI NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notification (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	348	500	EPA Method IO-2.1

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

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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04990		
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/04086		
		DATE OF SAMPLING	19/03/2021		
		DATE OF RECEIPT	20/03/2021		
		DATE OF REPORT	01/04/2021		
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021	
		SAMPLE DETAILS			
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020		
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 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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-----End of the test report-----



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Name & Address Of The Customer		REPORT NO	UES/TR/20-21/04991	
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/04087	
		DATE OF SAMPLING	19/03/2021	
		DATE OF RECEIPT	20/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021
		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)	$\mu\text{g}/\text{m}^3$	348	500	EPA Method IO-2.1

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

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Thakur
01/04/2021
PREPARED BY



For ULTIMATE ENVIROLYTICAL SOLUTIONS

Thakur
01/04/2021
AUTHORIZED SIGNATORY

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



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04992	
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/04088	
		DATE OF SAMPLING	19/03/2021	
		DATE OF RECEIPT	20/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021
SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/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	GM ² FILTER PAPER (8 X 10 INCH): 1X1 NO.			

TEST REPORT

SR. NO.	PARAMETER	UNIT	RESULT	As per MOEF Notificat ion (350-1)	METHOD REFERENCE
1	Total Suspended Particulate Matter (as SPM)	$\mu\text{g}/\text{m}^3$	376	500	EPA Method IO-2.1

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

REMARKS: RESULTS ARE AS ABOVE

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Thakur
01/04/2021
PREPARED BY



For ULTIMATE ENVIRONMENTAL SOLUTIONS

Thakur
01/04/2021
AUTHORIZED SIGNATORY

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



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04993	
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/04089	
		DATE OF SAMPLING	19/03/2021	
		DATE OF RECEIPT	20/03/2021	
		DATE OF REPORT	01/04/2021	
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021
SAMPLE DETAILS				
MONITORING FOR	WORK ZONE MONITORING	CUSTOMER REF. NO. & DATE	K/PO/SRV/2021/0033 DATED: 16/07/2020	
SAMPLING LOCATION	RAJNARA RAILWAY STYEING			
DURATION OF SAMPLING	24 HOURS	SAMPLE COLLECTED BY	LABORATORY CHEMIST	
SAMPLING PROCEDURE	AS PER METHOD REFERENCE			
SAMPLE QUANTITY/PACKING	GMF FILTER PAPER (8 X 10 INCH) : 1X1 NO.			

TEST REPORT

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

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

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



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<i>Name & Address Of The Customer</i>		REPORT NO	UES/TR/20-21/04994		
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/04090		
		DATE OF SAMPLING	19/03/2021		
		DATE OF RECEIPT	20/03/2021		
		DATE OF REPORT	01/04/2021		
		DATE OF ANALYSIS	START: 22/03/2021	END: 31/03/2021	
		SAMPLE DETAILS			
MONITORING FOR	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	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)	$\mu\text{g}/\text{m}^3$	314	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/20-21/04995
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/04091
		DATE OF REPORT	01/04/2021
		DATE OF SAMPLING	19/03/2021 to 20/03/2021
SAMPLE DETAILS			
MONITORING FOR	NOISE LEVEL MONITORING		
CUSTOMER REF. NO. & DATE	K/PO/SRV/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)	58.4	48.2	75	70
NEAR MAIN GATE	dB(A)	60.2	56.4		
NEAR DG STACK	dB(A)	52.8	44.6		
NEAR SUBSTATION	dB(A)	58.4	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)	46.8	36.2	55	45
KATHAUTIYA VILLAGE	dB(A)	50.2	40.4		
BATSARA VILLAGE	dB(A)	44.4	36.8		
SIRKA VILLAGE	dB(A)	40.6	32.4		

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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/20-21/04996	
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/04092	
		Date of Sampling	19/03/2021	
		Date of Receipt	20/03/2021	
		Date of Report	01/04/2021	
		Date of Analysis	Start: 22/03/2021	End: 31/03/2021
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	Scaled	Quantity Received	Approx. 3.3 Ltr.	

REPORT NO.- 04996

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	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	25.8	25.6
4	pH	-	APHA 22 nd Ed. 2012, 4500-H ⁺ -B, 4-92	5.5 to 9.0	7.14	7.20
5	Total Residual Chlorine	ng/L	APHA 22 nd Ed. 2012, 4500-C1-G, 4-69	1.0	N.D.	N.D.
6	Total Suspended Solids	ng/L	APHA 22 nd Ed. 2012, 2540- D, 2-66	100	42.0	36.0
7	Dissolved Phosphate (as P)	ng/L	APHA 22 nd Ed. 2012, 4500-P-C, 4-153	5.0	N.D.	N.D.
8	Fluoride (as F)	ng/L	APHA 22 nd Ed. 2012, 4500-F-B&D, 4-84 & 87	2.0	0.06	0.10
9	Lead (as Pb)	ng/L	APHA 22 nd Ed. 2012, 3111-B, 3-18	0.1	N.D.	N.D.
10	Zinc (as Zn)	ng/L	APHA 22 nd Ed. 2012, 3111-B, 3-18	5.0	0.16	0.12
11	Copper (as Cu)	ng/L	APHA 22 nd Ed. 2012, 3111-B, 3-18	3.0	N.D.	N.D.
12	Cadmium (as Cd)	ng/L	APHA 22 nd Ed. 2012, 3500-Cd, 3-105	2.0	N.D.	N.D.
13	Mercury (as Hg)	ng/L	APHA 22 nd Ed. 2012, 3112-B, 3-23	0.01	N.D.	N.D.
14	Arsenic (as As)	ng/L	APHA 22 nd Ed. 2012, 3114-C, 3-38	0.2	N.D.	N.D.



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REPORT NO.- 04996

TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-V] 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, 3-38	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	64.0	52.0
18	Biochemical Oxygen Demand (BOD)	mg/L	IS 3025(Part 44):1993, RA 2003	30	16.8	13.6
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	-	274.0	328.0

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

REMARKS: RESULTS ARE AS ABOVE

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