

Format No.: UES/FORM/09

 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS <small>NAME &amp; ADDRESS OF THE CUSTOMER</small>	HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ultimatenviro@gmail.com		 

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/5, MILUPARA U/G COAL</b> <b>MINE,VILLAGE - MILUPARA,</b> <b>BLOCK-TAMNAR,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/18-19/0780	
	LAB REF NO	UES/18-19/W/780	
	DATE OF SAMPLING	12/07/2018	
	DATE OF RECEIPT	13/07/2018	
	DATE OF REPORT	26/07/2018	
	DATE OF ANALYSIS	START:14/07/2018	END:19/07/2018

SAMPLE DETAILS			
SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	M:PO/SEV/1718/0123, dttd. 02.09.2017
CUSTOMER SAMPLE ID	ETP OUTLET-I (KONKREL)	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN 1 L X 1 NO. GLASS BOTTLE	SEALED	SAMPLE COLLECTED BY CHEMIST
SAMPLING PROCEDURE	IS:3025(PART 1):1987 RA 2003; APHA 22ND ED. 2012, 1060-B, 1-39	QUANTITY RECEIVED	5 LTR

REPORT NO. - 0780

### TEST REPORT

Sr. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Hazen	APHA 22 <sup>nd</sup> Ed. 2012,2120-B,2-6	See 6 of Annexure-I	Absent
2	Temperature	°C	APHA 22 <sup>nd</sup> Ed.2012,2130-B,2-13	Shall not exceed 5°C above the receiving water temperature	26.5
3	pH*	-	APHA 22 <sup>nd</sup> Ed.2012,4500-H <sup>+</sup> -B, 4-92	5.5 to 9.0	7.44
4	Total Residual Chlorine	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500-Cl-G, 4 - 69	1.0	N.D.
5	Total Suspended Solids*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,2540-D, 2-66	100	15.4
6	Dissolved Phosphate (as P)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500-F-B & D, 4-84 & 87	2.0	0.67
8	Lead (as Pb)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	3.0	0.03
11	Cadmium (as Cd)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3500-Cd, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3114-C, 3-38	0.2	N.D.

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 <b>Ultimate</b> ENVIROLYTICAL SOLUTIONS <small>ANALYSIS, TESTING &amp; CONSULTANCY SERVICES</small>	HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ultimatenviro@gmail.com	 
	REPORT NO. - 0780	

TEST REPORT					
SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
14	Selenium (as Se)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012, 5520-B, 5-17	250	40.0
17	Biochemical Oxygen Demand (BOD)	mg/Lit	IS 3025 (Part 44):1993, RA 2003	30	9.9
18	Oil & Grease	mg/Lit	IS 3025 (Part 39):1991, RA 2003, Ed 2.1	10	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/Lit	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

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

\*. These parameters are in scope

**REMARKS: RESULTS ARE AS ABOVE**

**Terms & conditions**

- The above analysis report refers to the particular sample received at our end and the use of the report for publication, arbitration or as legal dispute is forbidden.
- Test sample will be retained for 07 days after issue of test report unless otherwise agreed with customer.

	For <b>ULTIMATE ENVIROLYTICAL SOLUTIONS</b>    <b>AUTHORIZED SIGNATORY</b>
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-----End of the test report.....

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 <b>Ultimate</b> ENVIRONMENTAL SOLUTIONS <small>NAME AS REGISTERED &amp; CO. IN INDIA AND NEPAL</small>	HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ultimatenviro@gmail.com	 
		

<b>TO,</b> <b>HINDALCO INDUSTRIES LIMITED,</b> <b>GARE PALMA - IV/5, MILUPARA U/G</b> <b>COAL MINE,VILLAGE - MILUPARA,</b> <b>BLOCK-TAMNAR,</b> <b>DISTT. - RAIGARH (C.G.) 496107</b>	REPORT NO	UES/TR/II/18-19/0781	
	LAB REF NO	UES/18-19/W/781	
	DATE OF SAMPLING	12/07/2018	
	DATE OF RECEIPT	13/07/2018	
	DATE OF REPORT	26/07/2018	
	DATE OF ANALYSIS	START:14/07/2018	END:19/07/2018

SAMPLE DETAILS			
SAMPLE TYPE	EFFLUENT WATER	ORDER /REFERENCE:	M/PO/SRV/1718/0125, dt. 02.08.2017
CUSTOMER SAMPLE ID	ETP OUTLET-II (KONDKEL)	SAMPLE CONDITION AT RECEIPT	OK
PACKING OF SAMPLE	3 L X 1 NO. PVC CAN 1 L X 1 NO. PVC CAN 1 L X 1 NO. GLASS BOTTLE	SEALED	SAMPLE COLLECTED BY CHEMIST
SAMPLING PROCEDURE	IS:3025(PART 1):1987 RA 2003; APHA 22ND ED. 2012, 1060-B, 1-39	QUANTITY RECEIVED	5 LTR

REPORT NO. = 0781

### TEST REPORT

SR. NO.	PARAMETER	UNIT	METHOD OF TEST	THE ENVIRONMENT (PROTECTION) RULES, 1986 [SCHEDULE-VI] PART-A INLAND SURFACE WATER	RESULT
1	Colour and Odour	Hazen	APHA 22 <sup>nd</sup> Ed. 2012,2120-B,2-6	See 6 of Annexure-I	Absent
2	Temperature	°C	APHA 22 <sup>nd</sup> Ed.2012,2130-B,2-13	Shall not exceed 5°C above the receiving water temperature	26.5
3	pH*	-	APHA 22 <sup>nd</sup> Ed.2012,4500-H <sup>+</sup> -B, 4-92	5.5 to 9.0	7.46
4	Total Residual Chlorine	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500-Cl-G, 4 - 69	1.0	N.D.
5	Total Suspended Solids*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,2540-D, 2-66	100	32
6	Dissolved Phosphate (as P)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500-P-C, 4-153	5.0	N.D.
7	Fluoride (as F)*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,4500-F-B &D, 4-84 & 87	2.0	0.86
8	Lead (as Pb)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	0.1	N.D.
9	Zinc (as Zn)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	5.0	N.D.
10	Copper (as Cu)*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3111-B, 3-18	3.0	0.04
11	Cadmium (as Cd)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3500-Cd, 3-105	2.0	N.D.
12	Mercury (as Hg)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3112-B, 3-23	0.01	N.D.
13	Arsenic (as As)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3114-C, 3-38	0.2	N.D.



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 <b>Ultimate</b> ENVIROLYTICAL SOLUTIONS <small>AN ISO 9001:2015 &amp; ISO 14001:2015 CERTIFIED LABORATORY</small>	HDD-272, PHASE III- NEAR JP CHOWK, RING ROAD NO -2, KABIR NAGAR, RAIPUR, C.G. -99 PH - 0771-2972364   EMAIL-ultimatenviro@gmail.com	 
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### TEST REPORT

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14	Selenium (as Se)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3114-C, 3-38	0.05	N.D.
15	Total Chromium (as Cr)	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012,3500-Cr-B, 3-69	2.0	N.D.
16	Chemical Oxygen Demand (COD)*	mg/Lit	APHA 22 <sup>nd</sup> Ed.2012, 5520-B, 5-17	250	88.0
17	Biochemical Oxygen Demand (BOD)	mg/Lit	IS 3025 (Part 44):1993, RA 2003	30	22.2
18	Oil & Grease	mg/Lit	IS 3025 (Part 39):1991, RA 2003, Ed 2.1	10	N.D.
19	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/Lit	IS 3025 (Part 43):1992, RA 2003	1.0	N.D.

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

\*- These parameters are in scope

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