

Test Report for Drinking Water Quality

ULR- TC824125000002129

Report No. PCS/DWQ/03/2025	Reference No. PCS/RPD/01/2025	Issue Date 16/07/2025
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1. Name & address of Industry:	M/s Hindalco Industries Ltd., Renuagar Power Division, Renuagar, U.P		
2. Type of industry:	Power Plant	8. Method of Sampling:	PCS/WI/SAMP/21
3. Sample collected by:	Mr. Shubham & Mr. Umakant	9. Date of sampling:	03/07/2025-04/07/2025
4. Weather Condition:	Clear Sky	10. Sample receipt in lab:	05/07/2025
5. Sampling Location:	Canteen	11. Date of Analysis:	05/07/2025-09/07/2025
6. Lab Code:	PCS25/177/1313	12. Sample Analyzed By:	Ms. Alka & Ms. Mohini
7. Quantity of Sample:	2 Litre		

Sl. No.	Parameters	Unit	Reference Method	Result	BIS Standard IS 10500:2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.25	6.5 - 8.5	NR*
2.	Colour	Hazen	IS-3025(Part-4)	5.0	5	15
3.	Odour	-	IS-3025(Part-5)	Agreeable	Agreeable	Agreeable
4.	Turbidity	NTU	APHA-2130-B	0.25	1	5
5.	Conductivity	µmhos/cm	APHA 2510-B	232	---	---
6.	Total Dissolved Solid	mg/l	APHA 2540-C	135	500	2000
7.	Hardness as CaCO ₃	mg/l	APHA 2340-C	42.4	200	600
8.	Alkalinity	mg/l	APHA 2320-B	60.0	200	600
9.	Chloride as Cl	mg/l	APHA 4500-Cl,B	15.2	250	1000
10.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄	20.8	200	400
11.	Fluoride as F	mg/l	APHA 4500-F,C	0.21	1.0	1.5
12.	Calcium as CaCO ₃	mg/l	APHA 3500-Ca	39.7	75	200
13.	Magnesium as CaCO ₃	mg/l	APHA 3500-Mg,E	12.7	30	100
14.	Sodium as Na	mg/l	APHA 3500-Na,D	27.0	---	---
15.	Potassium as K	mg/l	APHA 3500-K,D	1.80	---	---
16.	Copper as Cu	mg/l	APHA 3111-Cu, B	BDL	0.05	1.5
17.	Chromium as Cr	mg/l	APHA 3111-Cr, B	BDL	0.05	NR*
18.	Cadmium as Cd	mg/l	APHA 3111-Cd, B	BDL	0.003	NR*
19.	Iron as Fe	mg/l	APHA 3111-Fe,B	0.073	0.3	NR*
20.	Nickel as Ni	mg/l	APHA 3111-Ni,B	BDL	0.02	NR*
21.	Lead as Pb	mg/l	APHA 3111-Pb,B	BDL	0.01	NR*
22.	Zinc as Zn	mg/l	APHA 3111-Zn, B	0.046	5	15
23.	Manganese (as Mn)	mg/l	APHA 3111-Mn,B	BDL	0.1	0.3
24.	Mercury as Hg	mg/l	APHA 3112-Hg,B	BDL	0.001	NR*
25.	Arsenic as As	mg/l	APHA 3114-As,B	BDL	0.01	0.05
26.	Phosphate as P	mg/l	APHA-4500-P-D	BDL	---	---
27.	Ammonia as Total Nitrogen	mg/l	IS-3025 (Part-34)	BDL	---	---
28.	Total coliforms	MPN/100ml	APHA 9221-A, B, C	BDL	Should be absent in any 100 ml sample	
29.	Fecal coliforms	MPN/100ml	APHA 9221-E	BDL		

BDL-Below Detection Limit: Cu-<0.04, Cr-<0.03, Fe-<0.06, Ni-<0.02, Pb-<0.01, Mn-<0.02, Hg-<0.0006, As-<0.004, Cd-<0.002, PO₄-<0.1, T.N-<0.25, Total Coliform -<1.8, Fecal coliform-<1.8

*NR-No Relaxation
Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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(Dr. Divya Misra)
Authorized Signatory

"End of this Test Report"