

Status of pH, Hexavalent Chromium & Total Chromium in water bodies of Sukinda Area during January, 2025 to December, 2025

Sl. No.	Location	Parameters	Prescribed Standard	Month											
				Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
1	Upstream of Kamarda mines at village Kansa	pH	6.5-8.5	7.9	8	7.4	7.5	7.6	6.3	7.6	7.7	6.7	7.2	7.7	7.6
		Cr ⁺⁶ (µg/l)	0.05	0.005	0.003	0.005	0.005	0.003	0.068	0.005	0.008	0.007	0.005	0.014	0.031
		Total Cr (µg/l)	--	0.009	0.007	0.007	0.009	0.005	0.089	0.011	0.011	0.012	0.009	0.019	0.042
2	Damsala at Tailangi (D/s of confluence) with nallah from Daitari hill range)	pH	6.5-8.5	8	8.1	7.6	7.7	8.4	6.2	7.9	7.5	6.8	7.5	7.5	7.4
		Cr ⁺⁶ (µg/l)	0.05	0.13	0.01	0.009	0.007	0.007	0.09	0.116	0.007	0.015	0.037	0.05	0.163
		Total Cr (µg/l)	--	0.174	0.014	0.012	0.012	0.012	0.11	0.137	0.012	0.019	0.049	0.06	0.218
3	Near water intake well of Tata Steel	pH	6.5-8.5	7.7	7.8	8.2	8.2	8	6.8	7.9	7.5	6.9	7.8	7.5	7.5
		Cr ⁺⁶ (µg/l)	0.05	0.193	0.019	0.024	0.016	0.014	0.064	0.021	0.022	0.097	0.158	0.071	0.097
		Total Cr (µg/l)	--	0.263	0.032	0.031	0.028	0.019	0.092	0.029	0.034	0.116	0.221	0.091	0.116
4	Near MIP (Downstream of mining activity)	pH	6.5-8.5	8.2	8.1	8.1	8	8.3	6.8	7.7	7.3	7	7.9	7.5	7.7
		Cr ⁺⁶ (µg/l)	0.05	0.046	0.012	0.022	0.012	0.017	0.134	0.005	0.017	0.032	0.061	0.074	0.109
		Total Cr (µg/l)	--	0.067	0.017	0.031	0.014	0.024	0.167	0.009	0.023	0.039	0.149	0.079	0.279
5	Damsala at Dayanabili (before confluence with river Ramiala)	pH	6.5-8.5	7.8	7.7	7.9	7.6	7.8	6.9	7.8	8.4	7.1	7.8	7.6	8.2
		Cr ⁺⁶ (µg/l)	0.05	0.032	0.003	0.005	0.005	0.007	0.005	0.005	0.003	0.039	0.003	0.031	0.093
		Total Cr (µg/l)	--	0.046	0.009	0.009	0.007	0.012	0.009	0.011	0.005	0.053	0.006	0.039	0.124
6	Upstream of	pH	6.5-8.5	8	8.1	7.9	7.8	8.3	6.7	8.1	7.5	6.8	7.8	7.6	7.2

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	JSL and Balasore Alloys	Cr ⁺⁶ (µg/l)	0.05	0.193	0.014	0.017	0.009	0.01	0.071	0.037	0.008	0.029	0.14	0.048	0.171
		Total Cr (µg/l)	--	0.257	0.022	0.024	0.014	0.014	0.099	0.047	0.015	0.035	0.199	0.059	0.223
7	Back side of OMC Labour Colony	pH	6.5-8.5	7.8	7.9	8.2	8.1	8.3	6.8	8.2	7.4	7.1	7.9	7.6	7.4
		Cr ⁺⁶ (µg/l)	0.05	0.135	0.012	0.021	0.014	0.012	0.094	0.023	0.027	0.085	0.172	0.081	0.282
		Total Cr (µg/l)	--	0.192	0.019	0.027	0.023	0.017	0.129	0.059	0.038	0.103	0.233	0.097	0.361
8	Upstream of MIP Reservoir	pH	6.5-8.5	7.7	7.8	8.2	8.1	7.9	6.7	7.8	7.6	7	7.9	7.5	7.5
		Cr ⁺⁶ (µg/l)	0.05	0.086	0.017	0.021	0.014	0.026	0.037	0.029	0.019	0.024	0.129	0.064	0.312
		Total Cr (µg/l)	--	0.115	0.027	0.029	0.019	0.034	0.172	0.036	0.025	0.036	0.183	0.082	0.419
9	Downstream of MIP Reservoir	pH	6.5-8.5	7.9	7.8	7.4	7.5	7.9	6.8	7.9	8.3	7	7.8	7.6	7.9
		Cr ⁺⁶ (µg/l)	0.05	0.055	0.007	0.007	0.01	0.01	0.042	0.048	0.007	0.056	0.111	0.066	0.198
		Total Cr (µg/l)	--	0.077	0.012	0.012	0.016	0.017	0.061	0.056	0.010	0.061	0.087	0.089	0.159