

# Evaluation of Toxic Heavy Metal Contamination in the Drinking Water of Ulhasnagar City, Maharashtra, India

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**Abstract:** *The water quality in Ulhasnagar city is significantly affected by the presence of numerous industries, as observed data reveals contamination of drinking water with toxic heavy metals such as chromium, copper, cadmium, lead, and nickel. Among these, chromium is found in particularly high concentrations due to the widespread use of the chrome tanning process in local leather industries for dehairing and dehidring. The elevated levels of chromium and other heavy metals in drinking water pose serious health risks to humans, highlighting the urgent need to implement advanced technological solutions to maintain these toxic substances within permissible limits..*

**Keywords:** Chrome tanning, Water contamination, Industrial pollution, Heavy metals, Health risks

