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Study of Heavy Metal contents of Kundalika River water at Roha, Dist. Raigad (M.S.) India

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Abstract: *A study was carried out to assess the water quality in terms of the heavy metal content of Kundalika River near Roha, Dist. Raigad (Maharashtra), India. Heavy metals are probably harmful and insidious pollutants because of their non biodegradable nature. Most of the heavy metals are toxic to many aquatic organisms and for human being. A study was therefore undertaken to assess the variation in some of the heavy metal contents of Kundalika river water near Roha. Samples were collected mainly from this area in the year 2019-20 and brought to the laboratory for the analysis purpose. Selected metals like Ni. As, Pb, Cd, Zn and Cr are estimated by using atomic absorption spectrometer, Perkin Elmer AA200. It was found that the concentration of few heavy metal of Kundalika river at Roha site exceeds the permissible limit slightly, whereas metal like Cd and Ni were below the permissible limits. The presence of heavy metal concentration in traces can be attributed to regular sand dredging activity in the river. Overall water quality of river at sampling location can be considered as supportive to the aquatic life. The quality of heavy metals in river water should be checked time to time; as heavy metal accumulation will cause numerous problems to living being. Therefore, passing awareness is needed for the betterment of water quality for the sake of its use.*

Keywords: Kundalika River Water, Heavy Metals, Roha Town, Spectrometer.

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