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# Hydro-chemical monitoring of Sakkardara lake at Nagpur (M.S.)

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**ABSTRACT :** The present paper includes an assessment of the quality of water reservoir situated near Chota Taj Bagh, Sakkardara Square, Nagpur, dist. Nagpur (M.S.). Since 'good' water quality will produce healthier humans than one with poor water quality, an analysis on the hydro-chemical parameters of Sakkardara lake water was made. The lake is situated near Raghuji Nagar in old city area and is beneficial to recreation in present days and fulfill scarcity of water in future. The use of water is mostly for recreation, idol immersion and fishing purpose. The findings of the analysis will prove to be quite informative, to the daily consumers of the water. The water samples were analyzed from June, 2008 to May, 2009. Water samples from this site were analyzed for pH, Conductivity, TDS, Chloride, Alkalinity, Hardness, DO and Sulphate. The results revealed the range of variation in different parameters viz., pH 8.0 to 8.2, TDS 789 to 992mg/l, hardness 210 to 299 mg/l, DO 5.7 to 7.2 mg/l, alkalinity 123 to 148 ppm, chloride 136 to 193 mg/l and sulphate 82 to 130 mg/l. All the hydro-chemical parameters of Sakkardara lake water are within the highest desirable limit or maximum permissible limit set by WHO.

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