

Study of Total Hardness of Different Water Samples

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Abstract: *The study is based on analysis of water samples of Savitri river chavdar talaav, and Sav river for this purpose water samples have been collected from three different water resources then total hardness, of those water samples have been carried out for this project aim is to find total hardness of three water samples.[1].*

Keywords: Total hardness

I. INTRODUCTION

Water includes pollutants like bacteria, Nitrogen and low levels of dissolved oxygen, which often cause by the decomposition of organic material; leading sources of pollutant include air deposition, agricultural runoff and hydrological modifications. This polluted water cause many disease and to control those disease it is necessary to check the quality of water which we are use in our day today life.

II. MATERIALS AND METHODS

Collection of water samples:

Water samples are collected in clean bottles free from impurities.

Analysis of water sample:

Total hardness of water samples can be analyse using following procedure.

Procedure followed is standard procedure taken from Beuro of indian standards(BIS).[16]

Procedure to find total hardness of given water samples

Prepare 0.01M EDTA solution.

Then pipette out 25ml water sample in a conical flask.

Add 5ml of buffer solution(pH=10)+3,4 drops of 2% Eriochrome black T indicator to it.

Shake well and titrate it against 0.01M EDTA solution from the burette end point will be from blue to colourless.

III. RESULT

Results obtained for all three water samples are as fallows:

Water samples	Total hardness(ppm)
Savitri river	
Chaudartalaav	
Sav river	

IV. CONCLUSION

From above results we can conclude that has high amount of total hardness .

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