

Unit I

Water Technology

1.1 INTRODUCTION

Water is essential for the existence of human beings, animals and plants. Though 80% of the earth's surface is occupied by water, less than 1% of the water is available for ready use.

The main sources of water are

- Rain
- rivers and lakes (surface water)
- wells and springs (ground water)
- sea water

Among the above sources of water, rain water is the purest form of water but it is very difficult to collect whereas sea water is the most impure form.

Thus, surface and ground water are normally used for industrial and domestic purposes. Such water must be free from undesirable impurities.

"The process of removing all types of impurities from water and making it fit for domestic or industrial purposes are called water treatment." Before treating water one must know the nature as well as the amount of impurities.

1.2 HARD WATER AND SOFT WATER

- Hard Water**

"Water which does not produce lather with soap solution, but produces white precipitate is called hard water".

This is due to the presence of dissolved Ca and Mg salts.



- Soft Water**

"Water which produces lather readily with soap solution is called soft water."

This is due to the absence of Ca and Mg salts.

BOILER FEED WATER

In Industry, one of the chief uses of water is generation of steam by boilers. The water fed into the boiler for the production of steam is called boiler feed water.

Requirements of boiler feed water

- It should have zero hardness.
- It must be free from dissolved gases like O₂, CO₂, etc.
- It should be free from suspended impurities.
- It should be free from dissolved salts and alkalinity.

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