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Treatment of Water	عنوان المحاضرة باللغة الانجليزية
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Treatment of Water

The available raw water has to be treated to make it fit, i.e. potable, means safe for human consumption. It should satisfy the physical, chemical and bacteriological standards as specified above. The various methods of purification of water are

Screening :Screens are provided before the intake works so as to prevent the entry of big objects like debris, branches of trees, part of animals etc. Screens may be of two types, coarse screen and fine screens. Coarse screens are parallel iron rods placed vertically or at a small slope at about 2.5 cm to 10 cm apart. The fine screens are made up of fine wire or perforated metal with small openings less than 1 cm size.

Sedimentation Aided with Coagulation

The fine suspended particles like mud particles and the colloidal matter present in water cannot settle down by plain sedimentation with ordinary (lesser) detention periods.

Filtration : Filtration is a physical and chemical process for separating suspended and colloidal

Disinfection : The filtration of water removes the suspended impurities and removes a large percentage of bacteria but still some of the bacteria remain there in the filtered water

Aeration : Taste and odour, both are undesirable in water. Aeration is done to remove taste and odour.

Water Softening: The reduction or removal of hardness from water is called as water softening. For domestic water supplies the softening is done to reduce the soap consumption, to ensure longer life to washed fabric,