



# IRON REMOVAL SYSTEMS



## IRON REMOVAL

Presence of Iron in drinking water leads to bad color, odour and appearance of water. It leads to corrosion of metal surfaces, and staining of Clothes and sanitary ware. Further presence of Iron in drinking water also leads to the growth of undesirable bacteria.

## IRON REMOVAL Media

Iron removal can be carried out by using a media called BIRM. This is a commonly used media for removal of Iron. It is an efficient and economical media for removal of dissolved Iron from raw water sources. This media acts as an insoluble catalyst to enhance the reaction between dissolved Oxygen and Iron compounds. Iron is usually present in the form of Ferrous bicarbonate in dissolved form. This is not filterable. Hence the media enhances the oxidation of  $Fe^{2+}$  to  $Fe^{3+}$  and this produces ferric hydroxide which precipitates and can be filtered.

## ADVANTAGES OF THIS SYSTEM

The Media used for Iron removal is not utilized in the filtration process. Thus due to long material life it makes the filtration system an economical process.

This system does not require regeneration, it requires only periodic back washing. Thus reducing labor costs. Further the media used is very durable and resistant to a wide range of temperatures.

