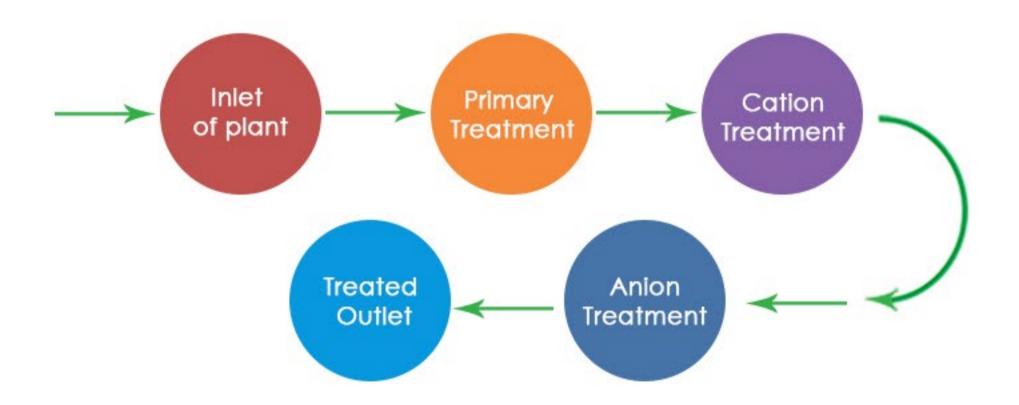


DE-MINERALIZATION PLANTS



Process Flow Diagram:



Process Description:

Demineralization is the process of removing mineral salts from water by using the ion exchange process. Deionization is a physical process which uses specially-manufactured ion exchange resins which provides ion exchange site for the replacement of the mineral salts in water with water forming H+ and OH- ions. Because the majority of water impurities are dissolved salts, deionization produces a high purity water that is generally similar to distilled water.

Water flows through the cation column, whereupon all the cations are exchanged for hydrogen ions. The same principle applies when considering anion-exchange. Water then flows through the anion column. This time, all the negatively charged ions are exchanged for hydroxide ions which then combine with the hydrogen ions to form water (H2O).

Application:

- 1) Textile Industry
- 4) Chemical Industry
- 7) Automobile Industry
- 10) Steel Industry
- 13) Hotel Industry
- 16) Builders and Developers
- 2) Food processing Industry
- 5) Solar cell Industry
- 8) Rubber Industry
- 11) Power Plant
- 14) Fertilizers
- 17) Agricultural Industry
- 3) Paper Industry
- 6) Pharmaceutical Industry
- 9) Sugar Industry
- 12) Leather Industry
- 15) Dairy product Industry
- 18) Beverage Industry