



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555

Vol.10 No.11,pp54-61,2017

Defluoridation of Water- A Comprehensive Review in Dharmapuri District

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Abstract:At present, lack of safe drinking water and contagion of water bodies are major problem in India. Fluoride contamination in potable water occurs in many states of India. According to Indian standards, the acceptable amount of fluoride ions in drinking water is less than 1mg/l. hence defluoridation must be carried out to remove excessive fluoride ions. In this paper various techniques for defluoridation of water such as adsorption technique, precipitation technique, ion-exchange process, membrane separation technique are reviewed with its pros and cons. Electrodialysis is one such process which does not involve any chemical to remove excessive fluoride with higher efficiency which is also dealt in this paper .

Keywords :Defluoridation, fluoride ions, electrodialysis, membrane, ion-exchange, precipitation.

Kavisri.M *et al*/International Journal of ChemTech Research, 2017,10(11): 54-61.
