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DESIGN OF A SEA WATER DESALINATION
PLANT FOR IRRIGATION

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DESIGN OF A SEA WATER DESALINATION
PLANT FOR IRRIGATION

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Dedicated to my PARENTS

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INDRODUCTION

Water is one of the most abundant resources on earth, covering three-quarters of the planet's surface. About 97% of the earth's water is salt water in the oceans; 3% of all fresh water, lakes and rivers which supply most of human and animal needs. Water is essential to life. The importance of supplying potable water can hardly be overstressed. Man has been depended on rivers, lakes and underground water reservoirs for fresh water requirements in domestic life, agriculture and industry. However, rapid industrial growth and the population explosion all over the world have resulted in a large escalation of demand for fresh water. Added to this the problem of pollution of rivers and lakes by industrial wastes and large amounts of sewage discharged. On a global scale, man-made pollution of natural sources of water is becoming the single largest cause for fresh water storage.

Under this situations the main solution is the desalination of salinity water.