

Hydroponics is the sustainability for the food requirement of the world in future.

The population of the world is increasing and it will reach 9 billion in 2050. It is a big challenge to feed the world population. On one side, population is increasing, and on the other side, agriculture land is diminishing due to urbanisation. Lack of agriculture labour availability.

To win this challenge, it is necessary to increase per acre productivity. Hydroponics is the only solution to meet out the food requirement in future.

What is Hydroponics?

Hydroponics is the technique of growing plants without soil, by using nutrients. The roots grow either in air, which is kept very humid; in water, which is well aerated; or in some solid, non-soil medium, like coco peat and rock wool which are kept moist. The water around the roots contains a carefully balanced mixture of nutrients which provides food for the plant.

History.

Hydroponics is an ancient technique, for example, Hanging Gardens in Babilon. The word hydroponics comes from two Greek words: hydro meaning water and ponos meaning labour. Classical experiments conducted by German plant scientists, and having conducted trials which inspired the development of a commercial industry in the following decades, knowledge of hydroponic growing.

Merits in Hydroponics

Good Quality Fruits, vegetables and Herbs, Longer shelf life,

Uniform size produce, Superior Taste and Nutrients,

Maximum yields,

Less use pesticides. Therefore less toxicity,
Judicial use of fertilizer, No waste of plant nutrients,
Water conservation,
Earth friendly Gardening,
Labour saving method.

Source: SSK Ventures (P) Ltd. By MRG Reddi, 03/12/2015