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RESEARCH PAPER

Small scale sea water treatment plant

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Abstract : The sea water treatment plant consisted of filtering media like sand, gravel, grit, charcoal, broken brick, gypsum, sponge and sawdust. The effective depths for sand, gravel, grit, charcoal, gypsum, broken bricks and sawdust were found to be 45 cm, 30 cm, 15 cm, 15 cm, 7.5 cm, 15 cm and 30 cm, respectively. It was observed that EC and pH of untreated sea water was reduced after filtration. The EC of sea water was 51.9 dS/m which was reduced to 44.9 dS/m with a per cent reduction of 13.48 per cent; while pH was 8.29 which was further reduced to 7.60 with per cent reduction of 8.32. The total cost of newly developed sea water treatment plant was found to be Rs. 623. Thus, it can be predicted that the designed treatment plant can be used for irrigation of salt tolerant crops.

Key Words: Sea water, Plant, EC, pH, Irrigation

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