Department: Mechanical

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SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Group No: 11

Guided By

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Project Title

DEVLOPMENT OF SOLARSTILLWITH EVACCUM TUBE COLLECTOR FOR MULTIPURPOSE APPAPPLICATION

Abstract:

Solar distillation is one of the most promising technologies for supplying potable water. Simply due to its lower productivity, it has limited application. Only, when solar distillation is coupled with any mechanical source, then it increased productivity. Such, the device is called active solar still. The present reviews researches done on a solar distillation system for increment in distillate output. And the solar heating on of the processes is ahesting a water with use of a solar energy and solar cooking the all the combine processing with a single system to multi purpose application on the system.

Solar still is a simple device which can convert available waste or brackish water into portable fresh water by utilising solar energy. In present research work, an attempt has been made to store excess heat energy in solar stills during the day times for the continuation of the process at late evening and night hours for increment distillate output. To investigate the effect of energy storage on the productivity under the same climate conditions, three same size single basin single slope, solar still with the area of 1m2 made of galvanised sheet and tested with 0.10 m of layer of water level to investigate effects on solar still. A different energy storage materials like marble pieces and sandstones used for easy availability and lower price. It has found it day to day time duration on active solar still energy gain with etc tube and during night heat relies then all system produce a more out put..

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