

# **SOLAR POWER ACTUATED DRIER**



## **PROJECT REPORT**

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**Under the Guidance of**

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## **ABSTRACT**

The traditional method of drying is to keep the food grains in sunlight in open environment, which is not so hygienic due to contamination by dust, insects, bacteria and birds. Hence to overcome these problems, we thought of introducing a new method of drying using SOLAR POWER ACTUATED DRIER, which derives the heat required for drying from the hot water stored inside the solar water heater. Hot water from the water heater is made to circulate through the metallic jackets in different stages inside the suitable insulated drier cabin. Thus available heat over the metal jackets is sufficient to utilize for drying many food grains for maximum duration. Since this unit indirectly utilizes the solar energy it can be used as an indoor appliance.

This project aims on utilizing the solar water heater as a multipurpose appliance along with better utilization of renewable source of energy. This can also emerge as a best solution for the present energy crisis.