Department : **Mechanical**

Year : **2017-2018**

Group No: **15**

Guided By

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Project Title

IMOVEMENTIN DESIGN OF SOLAR AIR DRYER

Abstract:

In many countries of the world, the use of solar thermal systems in the agricultural area to conserve vegetables, fruits, coffee and other crops has shown to be practical, economical and the responsible approach environmentally. Solar heating systems to dry food and
other crops can improve the quality of the product, while reducing wasted produce.

Under the module of Advance topics in mechanical engineering projects, we were assigned to design the low cost vegetable dryer. The design of dryer consists of several steps and sequence procedure.

This report consists of back ground about project and the first chapter covers the introduction about drying and our project. Second chapter covers the over view, applications of solar dryer and benefits of solar drying foods. The third chapter consist with literature review and description of dryers. The forth chapter is written on materials and methods and fifth chapter gives cost estimation for the dryer. sixth chapter covers conclusions and recommendations and final chapter consist with references.

This project report gives a great guideline about designing of low cost vegetable dryer compare with the other competitive industrial food processing technique.

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