ACKNOWLEDGEMENT

It's my great pleasure to present project report entitled "**Performance of square pyramid solar still,Wagholi,Pune.**". This project is an outcome of various efforts by us in collating and identifying the sources of information and knowledge. I use this occasion to thank my guide with whose guidance this effort would not have borne fruits. I find no words to express my gratitude to **Dr.Borse S.L**. who not only advised and guided me during the report writing but also answered all my queries concerning collection of data, proper structuring of the report, and its improvement. I would also thankful of my friends which gave me a proper guide line about my subject. I am virtually indebted to the Head of the Department **Prof. S.H.Sarje** from Imperial College of Engineering and Research who have bestowed all their blessings in the form of guidance which was the leading light to complete this seminar report. I would also like to thank our principal, **Dr.S.N.Deshpande** who provided me valuable support in completion of seminar by providing me different facilities in college and by giving permission for working out of college.

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CONTENT

LIST OF FIGURES

ABSTRACT

The purpose of this paper is to design a water distillation system that can purify water from nearly any source, a system that is relatively cheap, portable, and depends only on renewable solar energy. The motivation for this paper is the limited availability of clean water resources and the abundance of impure water available for potential conversion into potable water, In addition, there are many coastal locations where seawater is abundant but potable water is not available. Our main goal is to efficiently produce clean drinkable water from solar energy conversion. Distillation is one of many processes that can be used for water purification. This requires an energy input as heat, electricity and solar radiation can be the source of energy When Solar energy is used for this purpose, it is known as Solar water Distillation. Solar Distillation is an attractive process to produce portable water using free of cost solar energy. This energy is used directly for evaporating water inside a device usually termed a “Solar Still”. Solar stills are used in cases where rain, piped, or well water is impractical, such as in remote homes or during power outages. Different versions of a still are used to desalinate seawater, in desert survival kits and for home water Purification. Solar Distillation is an attractive alternative because of its simple technology, non-requirement of highly skilled labour for maintenance work and low energy consumption.

Keywords:- Solar, Pyramid Type