

### RAYAT SHIKSHAN SANSTHA'S

### D.P. BHOSALE COLLEGE, KOREGAON

Department of PHYSICS

"Industrial Training" 2018-19

Jointly Organized by Department of Physics and Electra Solar

Place to training : Electra Solar Pvt. Ltd.

M.I.D.C.Koregaon

Day: Monday Date: 26th February, 2019

Time: 10:30am-5:30pm

D. P. BIDEBE COLOF PIPESTOS

#### INDUSTRIAL TRAINING

#### Student attendence

Sr. No.	Name of Participant visited	Sign
2	Bhandekar Shubham Sunil	Blumdele-
3	Dafedar Junaid Ammin	Drot
4	Jadhav Akshay Chandrakant	Bull
5	Maner Arbaj Hamid	Menday
6	Nalawade Akash Ramesh	Malemale
7	Nalawade Mangesh Mahendra	Market
8	Nikam Amarjeet Shankar	Anton
9	Nikam Amruta Shivaji	N.A.Q
10	Phadtare Snehal Dipak	@hadfores.
11	Shedage Anirudha Ganesh	shedageAll
12	Shinde Sagar Sharad	chindre

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Depart print of Physics
D. P. Bhosare Loilege, Koregaon
Dept. of Physics

Date:26/02/2019

## Industrial visit: 'Suryottam' (Electro solar company)

#### Acknowledgement:-

It has remarkable experience of study tour .This acknowledgement is attempt to thanks to 'Suryottam' Solar Water Heater Company.

We are thankful to Dr. V. S. Jamdade (HOD) and Mr. S. L. Jadhav for offering us all facilities during tour. Completing this report would not have been possible without cardinal help and permission, extended to us by Honourable Principal Dr. V. S. Sawant.

#### Abstract:-

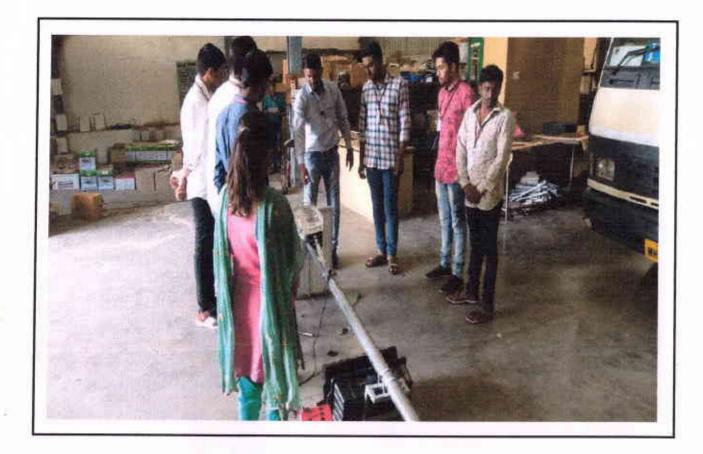
Solar water heating system for domestic use has been constructed using locally available materials. Lot of energy required for heating the water to good extent. Approximately 18% of domestic energy is used to heating the water in most homes and businesses this energy is generated from non-renewable sources i.e. oil, coal etc. But many people still heat their water using electricity which is the most expensive way to heat water. So by using Solar Water Heater we can save the energy.

#### **Tour Report:-**

Department of Physics of D. P. Bhosale College, Koregaon was organized one day study tour at Solar Company M.I.D.C. Koregaon Dist. Satara on 26<sup>th</sup> Feb 2019)

We are the student of T.Y. B.Sc. (Physics) has participated in this study tour to understand construction as well as the working of solar water heater and its uses. Technician officer Mr. Salunkhe V. S. Sir was informed us about all machines and their importance. Also use of solar water heater in daily life and how we can save the energy. The also talked & demonstrate how to fabricate solar water heater.





#### Solar water heater consists:-

The domestic solar water heater has been divided into two componants.

- 1) Storage Tank.
- 2) Absorber Plate.

#### 1] Storage Tank:-

The wide range of the storage tank ranging from low end capacities to high end capacities. The tanks can be used for small homes to large townships. The Storage Tank has to cylinder with drilled hole 20 i.e. inner and outer cylinder. These two cylinder separated by insulating material for avoiding the heat exchange with the environment.

#### 2| Absorber plate:-

Evaculated tube collector are way to reduce heat loss. Water piping in an ETC surrounded by two concentric tubes of glass separated by vaccum that admits heat from the sun. The inner tube is coated with thermal absorber. ETC can gather energy from the sun all day long at all angels due to their tabular shape. In ETC cold water comes from tank with lower level and hot



Water transfer from ETC to tank with upper layer. Thus, separation of the cold and hot water obtained in same time. When we pass the cold water from inlet then and only then we get hot water through outlet.





## Place to Training: Electra Solar Pvt. Ltd. M.I.D.C.Koregaon



Training for Fabrication of Solar pannel



Training for Installation training of Solar pannel



# Place to Training: Electra Solar Pvt. Ltd. "Suryottam"



Training for Fabrication of water heater



Training for Installation training of water heater

