

Synergic India Pvt. Ltd.

WELCOME

PRESENTATION ON

**HARNESSING SOLAR POWER
FOR ENERGY CONSERVATION**

Power situation in Maharashtra

- **850 MW Power shortage in mid-monsoon**
- **Rs. 3200 Cr. : Cost of installation of a Power Station to make up the shortage**
- **Adverse impact of power shortage on industry and agriculture**
- **A 4-hour power cut in Rural areas required to cater to peak hours needs in Urban areas**

WHY SOLAR POWER ?

It Is Non-polluting - Environment Friendly

It Is Healthy

It Is Abundant

Simple & Inexpensive Technology

It Is Free !!

Solar Water Heating System

Consists of :

Solar Flat Plate Collector

Hot Water Tank

System Piping

Valves & Fittings

Appropriate Insulation

Solar Flat Plate Collector

Consists of :

Aluminium Casing,
Glasswool/ Rockwool Insulation

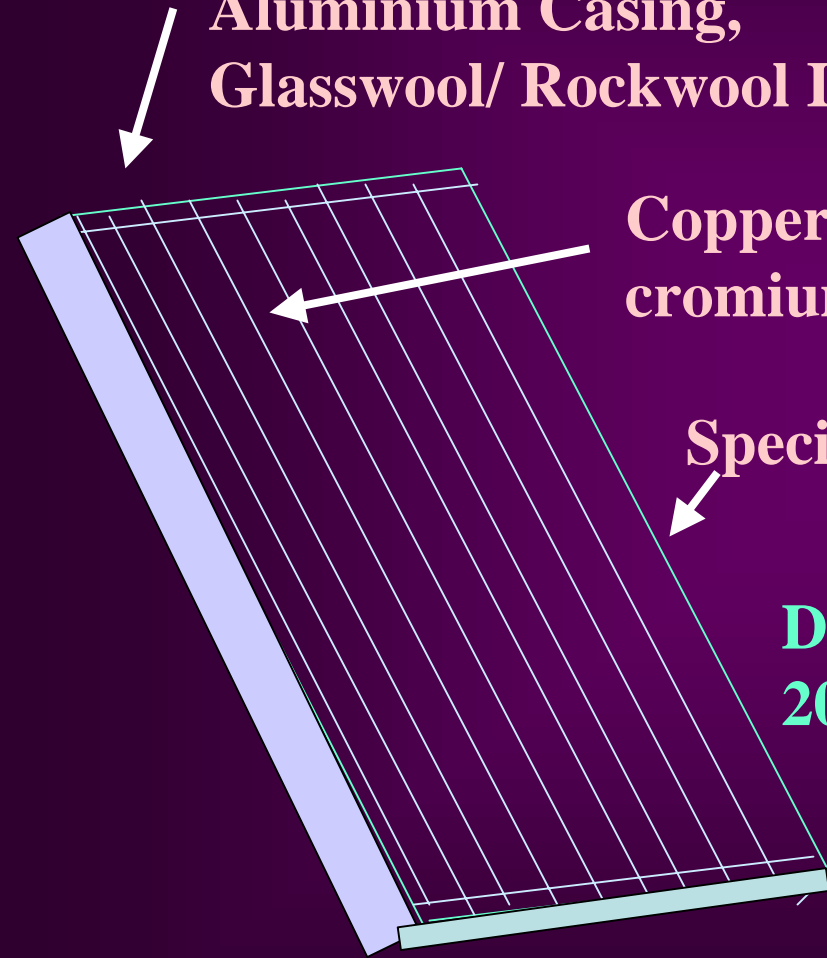
Copper Fins 9 Nos., (TIG Welded, & selectively
chromium coated)

Special Toughened Glass

Dimensions :

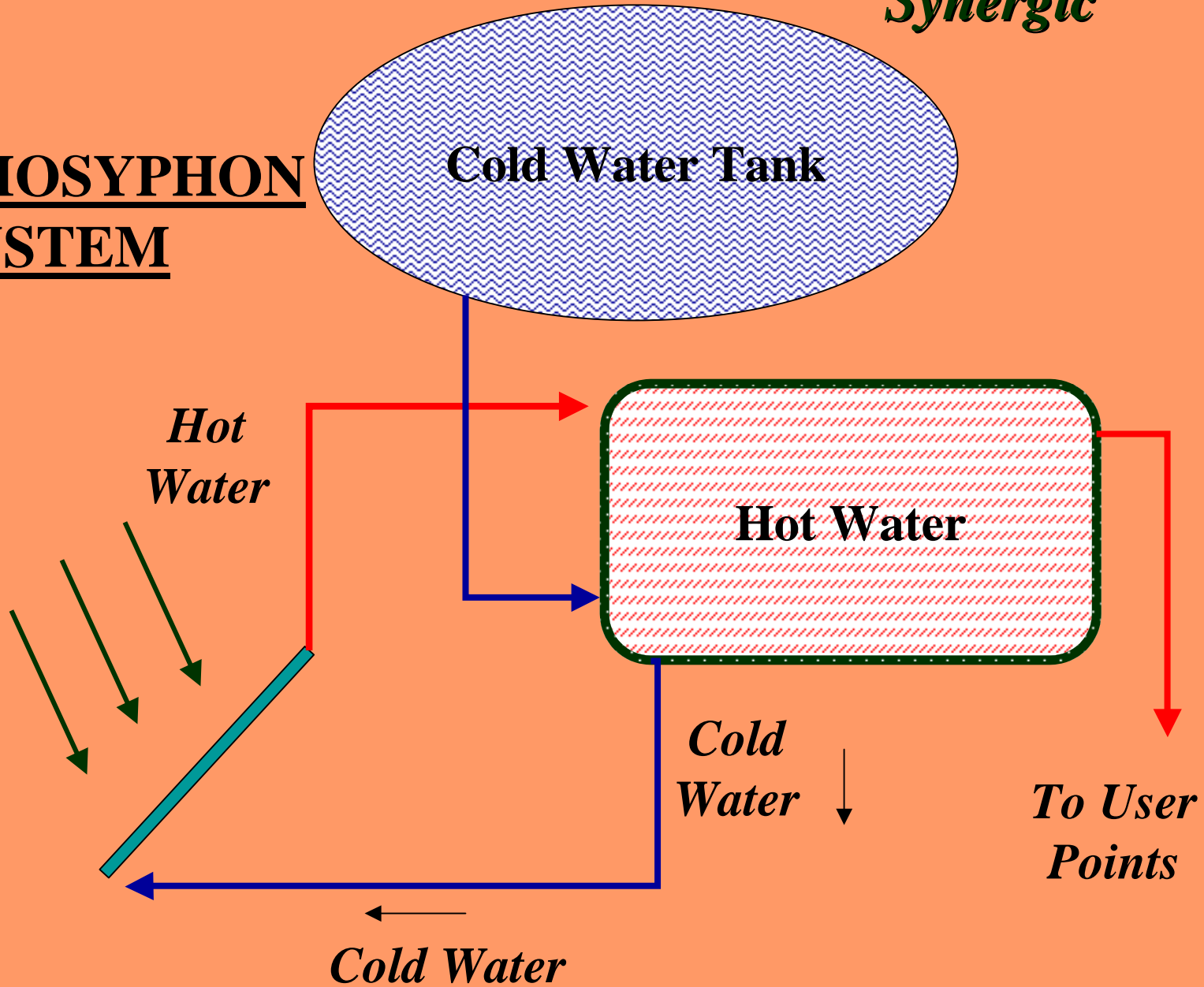
2040 mm X 1040 mm X 100 mm

Gross Weight : 65 Kg (With Water)



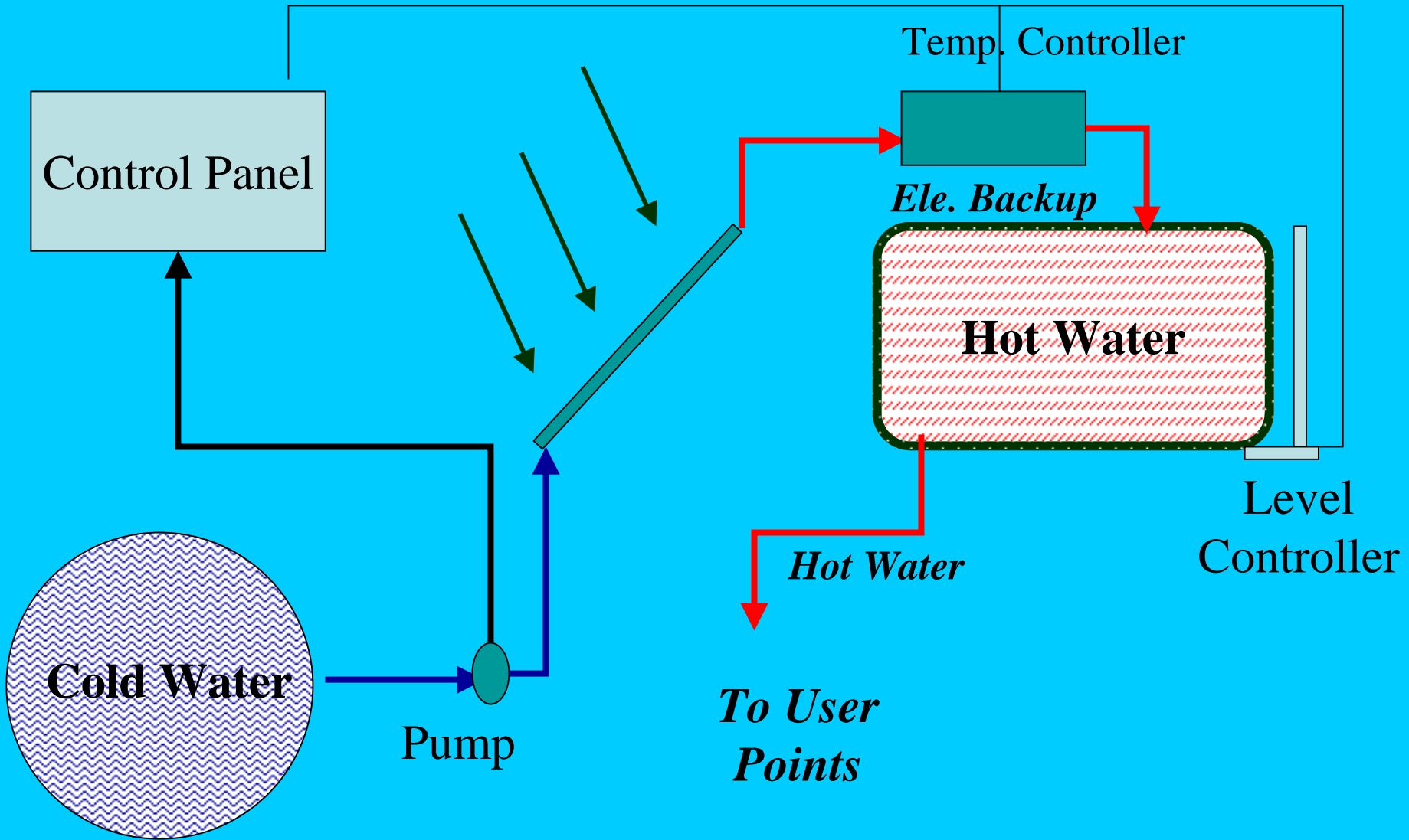
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THERMOSYPHON
SYSTEM



Forced Flow System

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Solar Water Heating Systems - Major Advantages

Maintenance Free

No Running Costs

Long Effective Life

No Emissions/ Residues

Fast Pay-Back

Solar Water Heating System

Applications

Water Heating - Bathing

Swimming Pool Heating

Industrial Pre-heating

Drying

Solar Water Heating System

Pay-Back Calculation

For 1000 LPD at 60° C

Heating Mode	Calorific Value	Thermal Eff (%)	Savings p.a	Units
Electricity	860	90	13565	Units
Diesel/ LDO	10200	75	1372	Litres
Wood	4708	17.3	12900	Kg.
LPG	10882	60	1608	Kg.
Coal	3302	75	4239	Kg.
Kerosene	9122	50	2302	Litres

SOLAR PHOTOVOLTAIC LIGHTING SYSTEM

Applications

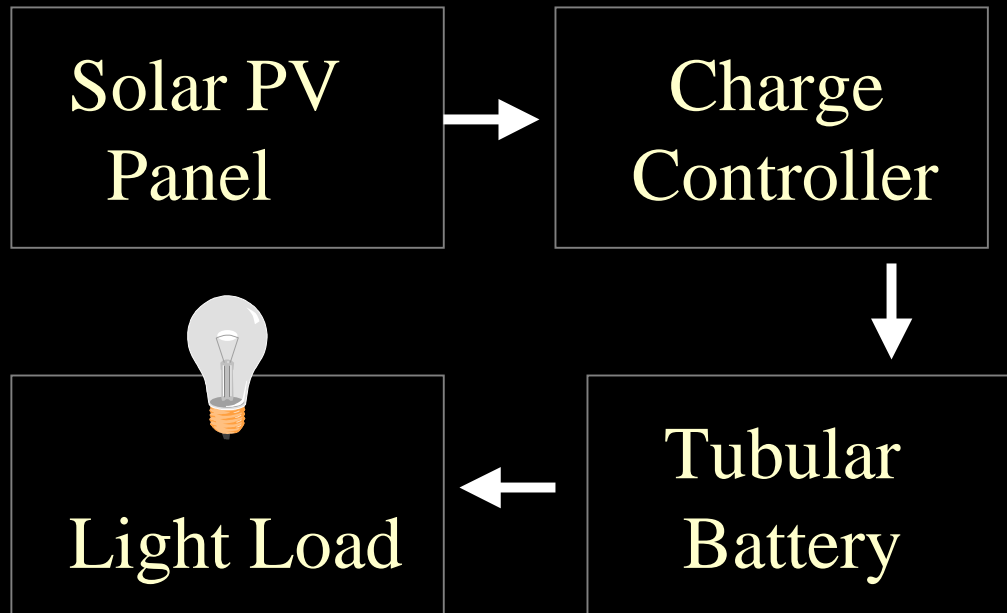
Street Lighting

Home Lighting

Pathway/ Boundary wall Lighting

Portable Solar Lantern (Emergency Light)

Architecture at Pure Solar PV System



- ▶ Eco-friendly
- ▶ One-time cost
- ▶ Two days autonomy

Full utilization of Solar Radiation

Seamless swithcover to MSEB whenever needed

No extra cost for autonomy

Economical pricing

Savings in energy costs upto 75% to 90%

Pay-back - around 5 years

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About the Company ...

- Established in the year 1993
- Promoted by NRIs with excellent track record in energy conservation.
- Professionally Managed
- Providing solutions for Energy Conservation in domestic as well as industrial applications.
- Thousands of installations in Maharashtra, Goa and Karnataka

Hybrid Solution

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Products

Thermal :

Solar Water Heating Systems

Industrial Pre-heating Systems

Swimming Pool Heating Systems

Solar Dryers

Photovoltaic :

Home Lighting Systems

Solar Street Lights

Solar Lantern/ Emergency Lamp

Custom-Built Applications

- **About Promoters**

Mr. Dilip Limaye, *Founder & President*

**B.Tech. IIT Powai, MS - Operations Research, Ph.D
dissertation in Energy Conservation & Alternative Energy
Systems, Drexel University, USA**

**Published books and papers on strategic marketing for
electrical utilities, load management, co-generation, energy
policy evaluation & electrical utility conservation programs.**

**Consultant to Various Projects in Energy Conservation under
the aegis of USAID, IIEC, and Government of India**

- **Mr. Vikram Limaye**

A Chartered Accountant with an MBA from Wharton School, University of Pennsylvania, majoring in Financing & Accounting.

President of Yuvis Inc. an international consulting company.

Operating in India & US. Formerly Vice-President & Controller of Parsons, Brinkerhoff, a US multinational engineering firm.

THANK YOU !

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