

ONCE WE ARE ON
YOUR HOME,
WE'LL STAY IN
YOUR LIVES
FOREVER!

10
Years
Guarantee*



समझदारी की सोच!



Awarded as
**'India's Highest
Selling Company'**
by the Govt. of India



Awarded for
**'Best Service
Network'**
by the Govt. of India

MNRE
APPROVED

ISO
9001 : 2015



Sudarshan Saur[®]

A LITTLE BIT NOW, GOES A LONG WAY IN THE FUTURE.

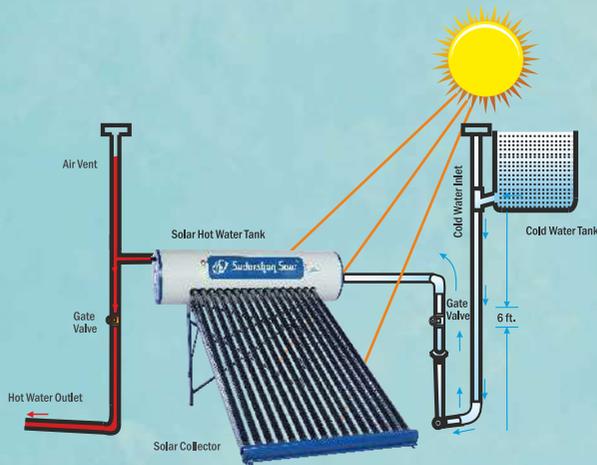
Solar water heaters use solar energy to heat water in your homes. This results saving on a great many things.

- Saving on expenditure due to electricity bills*.
- Saving of resources such as coal, LPG and firewood.
- A liter of water heated by this system reduces CO2 emission by 14 kg per year.

*The payback period is just around 2 to 3 years and life of the good system is around 15 to 20 years.



HOW DOES A SOLAR WATER HEATER WORK?



COLD WATER DOWN, HOT WATER UP!

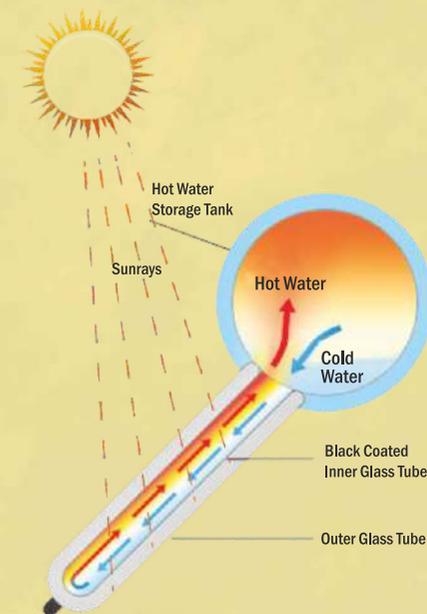
The working principle of solar water heaters can be classified into two parts:

a) Black Body Absorption Principle

- The colour black can absorb maximum heat from sunrays.
- Therefore, a special black coating present on the solar collector, helps absorb heat.

b) Natural Thermosyphon Circulation

- Water in the collector heats up and becomes lighter.
- This hot water moves upwards in the tank.
- Cold water which is now heavier, moves downward in the tubes.
- Natural thermosyphon circulation continues throughout the day and this heats up the water in the tank.



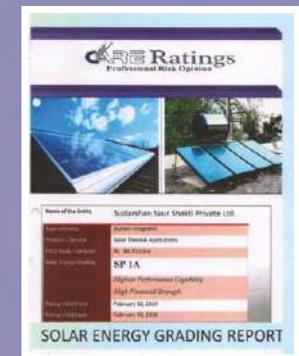
YOUR TRUSTWORTHY SOLAR COMPANION

Since 1989, Sudarshan Saur Shakti Pvt. Ltd. has been designing, manufacturing and marketing solar water heaters and has built a reputed name in the industry with our innovation & technology. Here is why our solar water heaters are perfect for your home:

- India's first 3 Star Rated Solar Water Heater manufacturing company.
- World-class manufacturing facilities.
- With 350+ dealers across India, we have been awarded for 'Highest Sales' and 'Best Service Network' by the Govt. of India.
- Technological expertise keeping us above and beyond the competition.
- A dedicated customer care unit for lifetime service and support.
- 33 years of vast experience with lakhs of satisfied customers across the country.



ISO CERTIFICATE



CARE SP-1A



As per
Bureau of Energy Efficiency
Ministry of Power, Government of India



Awarded as
'India's Highest Selling Company'
by the Govt. of India

The only Solar Water Heater Manufacturing Company to receive 3 Star Rating as well as 2 Awards from the Govt. of India.



Awarded for
'Best Service Network'
by the Govt. of India

EXTENSIVE RESEARCH APPLIED TO BRING OUT THE BEST!

A glimpse of our manufacturing units.



AUTOMATIC LEAKAGE TESTING SETUP



GLASS LINING FURNACE



AUTOMATIC FOAMING SETUP



AUTOMATIC PACKING LINE



AUTOMATIC PRE-TREATMENT SETUP

DIFFERENT TECHNOLOGIES, SIMILAR PURPOSES!

To meet all your hot water needs, we can broadly divide our range of solar water heaters into two kinds of technologies.

E.T.C.



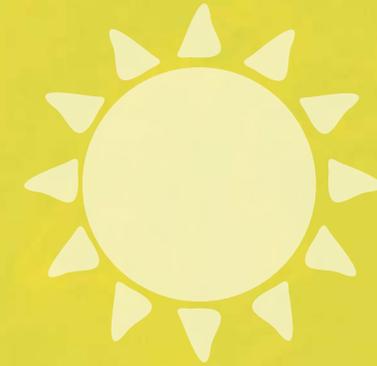
Evacuated Tube
Collector Technology

F.P.C.



Flat Plate
Collector Technology





E.T.C. PRODUCT RANGE



CRYSTAL BLUE GLASS LINING MODELS

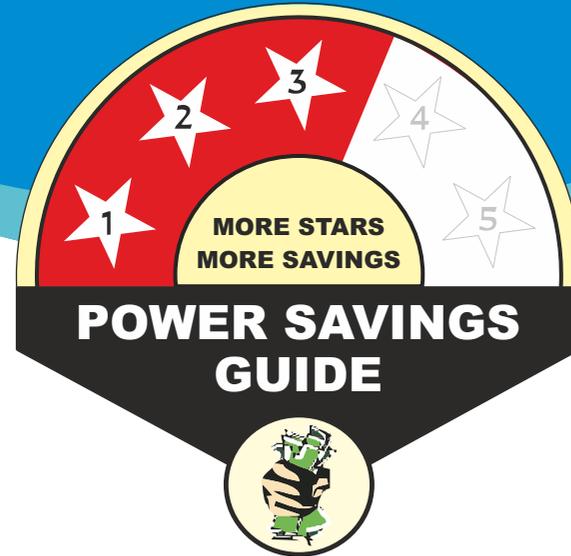
- NON PRESSURIZED MODEL
- PRESSURIZED MODEL
- COMMERCIAL MODEL



SUDARSHAN SAUR... THE FIRST SOLAR WATER HEATER MANUFACTURER TO RECEIVE 3 STAR RATING



As per
**Bureau of
Energy Efficiency**
Ministry of Power, Government of India



-  Lifetime Service
-  Millions of Happy Users
-  Wide Dealer Network

समझदारी की सोच!

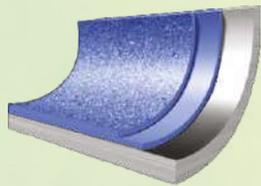


Sudarshan Saur[®]

GLASS LINING IN THE TANK. CLEAN WATER FOR LIFE!

The **Crystal Blue Glass Lining** series has a tank with a special porcelain enamel coating. This is a non-stick coating inside the tank that is essential to prevent corrosion and scaling. Thus, it helps provide clean hot water.

- The coating also makes the tank suitable for any type of water.
- We provide 10 years of guarantee* for our glass lining models



**Crystal Blue[™]
Glass Lining**

Manufactured with unique technology to ensure long life of solar water heater for any kind of water



INTERNATIONAL DESIGN, INDIAN ADAPTABILITY!

Double Access Doors

make it possible to clean the tank

Metallic Outer Cover

helps withstand all weather conditions

Special Profile Rolled Section Stand

provides stability and strength to the system

Crystal Blue Glass Lining

prevents any impurities from sticking to the tank

High-pressure High-density Cyclopentane PUF Insulation

is non-corrosive and environment friendly keeps water warm for longer

Capsule Dish-end-shaped Tank

withstands greater pressure

3 T Gold Standard Tubes+ 10% greater Absorption Area

give you more hot water



EASY TO CLEAN, GREAT TO MAINTAIN!

Our ETC solar water heaters have the unique provision of two access doors, called Double Access Doors, at both ends of the hot water storage tank.

- The doors provide easy access to the inside of the tank
- It becomes easier to clean the tank, by removing scales or dirt particles accumulated inside it.



AROUND YOUR TANK, TO KEEP HEAT INTACT!

Automated high-pressure high-density PUF insulation. Made With **International Standard Cyclopentane PUF Technology.**

- It provides uniform insulation density all around the tank.
- It keeps water heated, even during cold winter nights.
- Eco-friendly PUF insulation.



Fully automated temperature controlled PUF setup

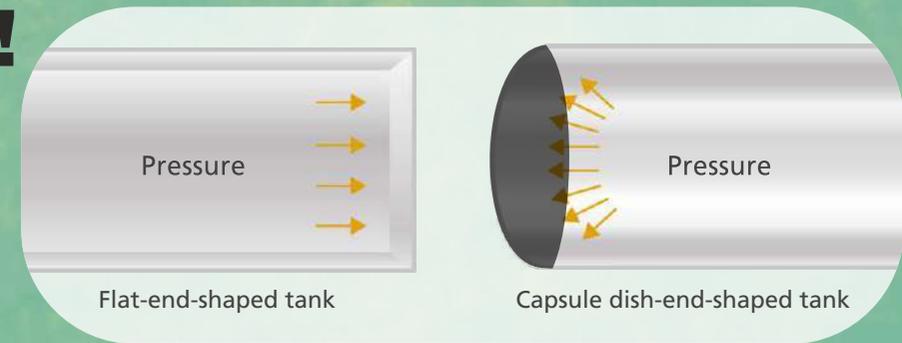


High-density PUF insulation

CAPSULE SHAPED, LONGEVITY MAINTAINED!

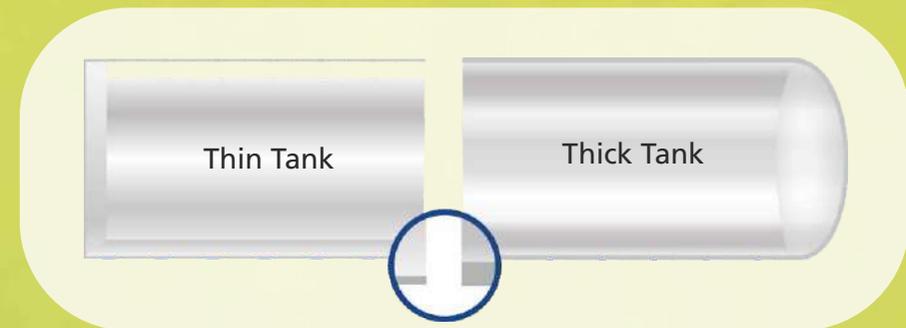
Sudarshan Saur's ETC solar water heaters have a capsule dish-end-shaped tank.

- Because of the capsule dish-end shape, the capacity to withstand pressure in the tank is increased, as compared to a flat-shaped tank.
- The dish-end joint is smooth and stress-resistant, therefore no corrosion occurs in the joint.



THICK AND STURDY TANK, FOR MAXIMUM IMPACT.

- They are able to withstand both positive and negative pressure of air vents
- Since they are sturdy and heavy, thick tanks don't require feeder tanks

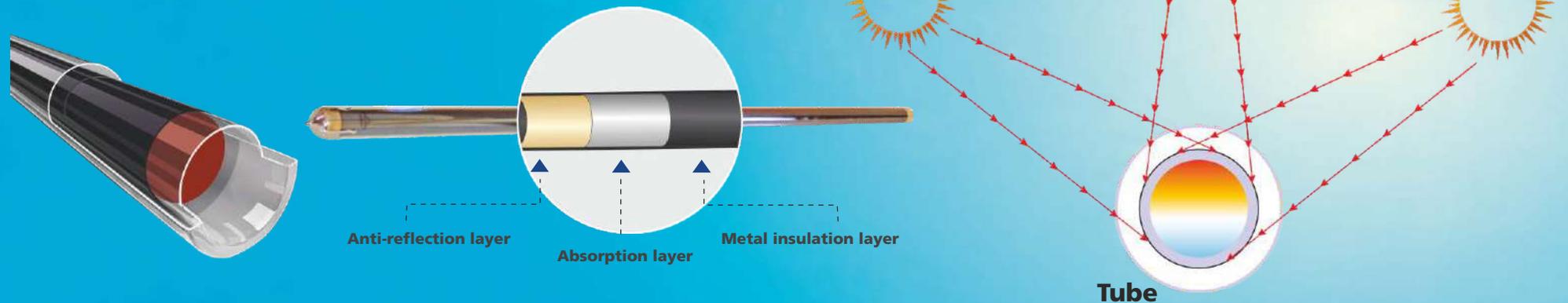


TUBES ABSORB EVERY RAY, TO GIVE YOU HOT WATER EVERY DAY.

- Solar evacuated tubes are designed to collect energy from the sun at every angle.
- 3 T Gold standard tubes and Magnatron sputtered coating maximize the absorption of solar energy, even in cold or cloudy weather.



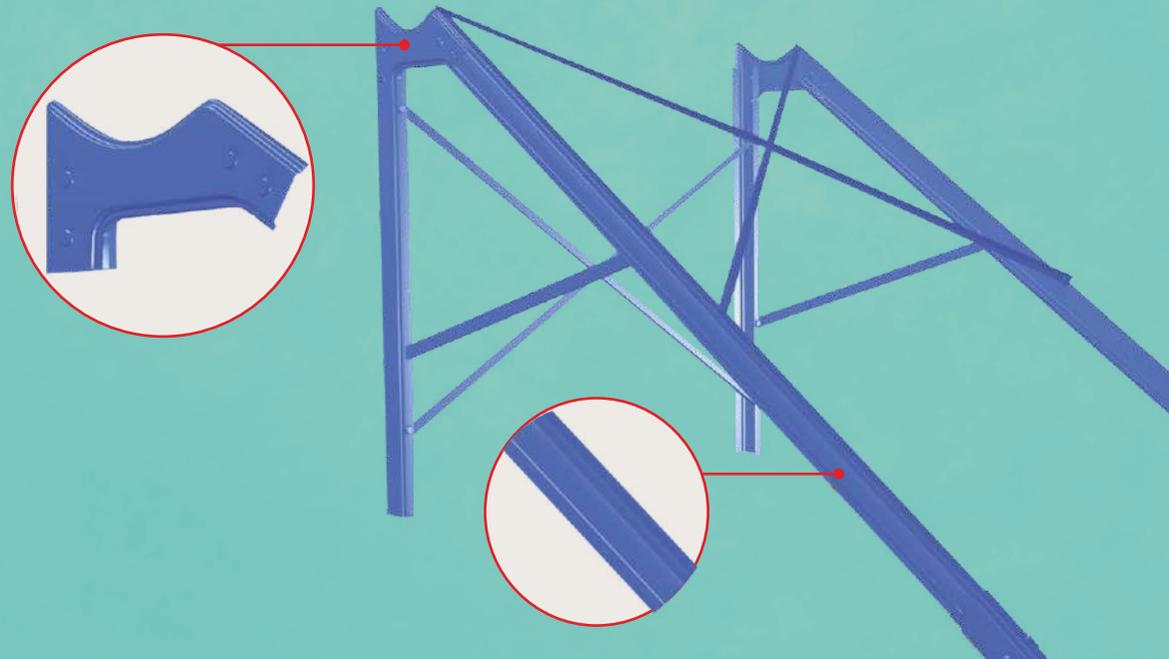
Gold Standard Certificate



SUPPORTING YOUR SYSTEM, ENHANCING ITS APPLICATION.

Sudarshan Saur solar water heaters have a stand made of special profile G.I. (Galvanized Iron) rolled sections.

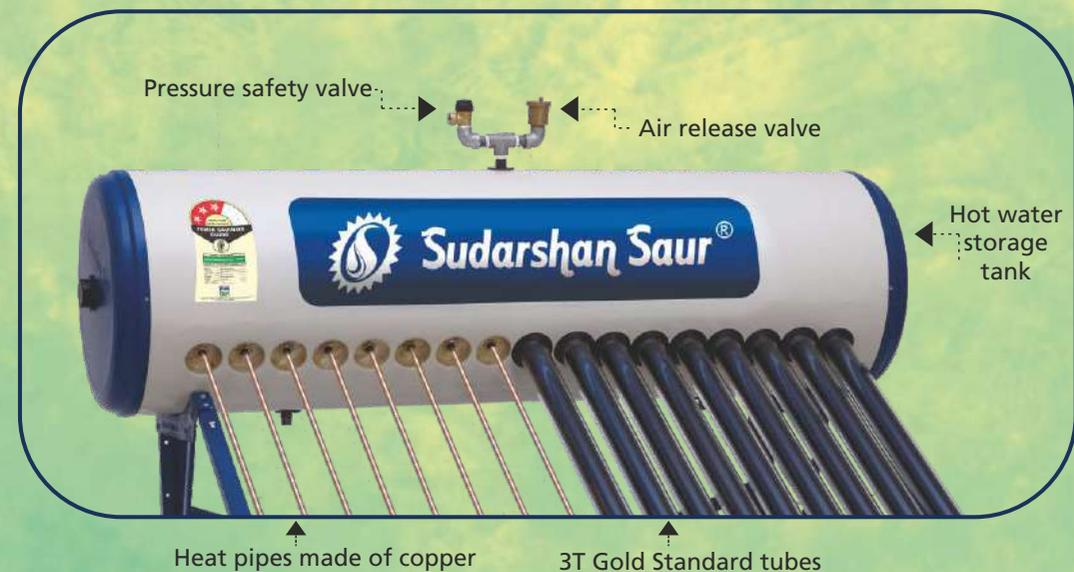
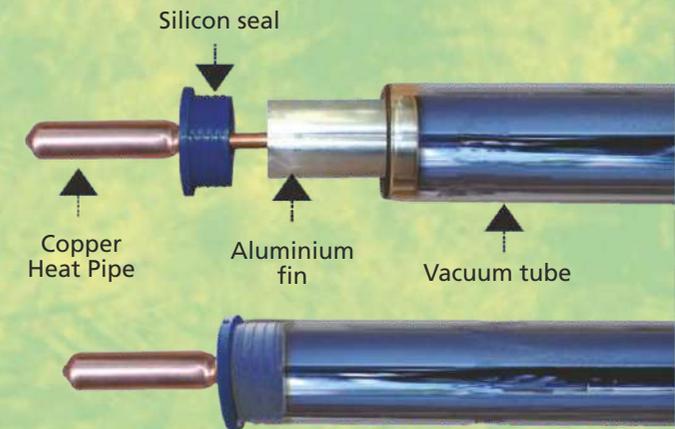
- The sturdy special profile rolled sections help withstand the weight of the system.
- The stand keeps the system sturdy during strong winds or storms.
- A special duplex powder coating helps avoid corrosion and ensures that the system works for longer



MULTI-JET SHOWERS CAN NOW GET POWERED.

The **Pressurized Glass Lining Model** series uses Copper Heat Pipe technology with thermic fluid to heat water efficiently. This system is designed for bungalows and homes that use pressure pumps for high water pressure requirements.

- Works with water pressure in homes with varied bathing applications.
- Heat energy is transferred by the copper pipes to the water.
- No scaling occurs in the tubes.
- The system can work in areas of hard or soft water.
- A safety valve helps in venting excessive pressure and air out of the tank.





ALWAYS BUY THE BEST DON'T TRY THE REST!

Before purchase, please check the type of inner tank coating used in our and other systems...



SUDARSHAN SAUR BRAND

Crystal Blue Glass Lining Technology

- Sudarshan Saur uses Crystal Blue Glass Lining or Porcelain Lining.
- We use high quality frit made in Germany which is used by all well-known brands.
- Fully automated coating done by latest technology covers all elements of the system from hot water storage tank to nozzle.
- Glass Lining technology is proven and accepted all over the world for hot water storage tanks and solar water heaters.
- Melting Point of glass lining material is very high and also it fuses with inner tank material which gives high adhesion and longer life too.
- Proper thickness of glass lining and full coverage ensure no corrosion and long life.
- Our Glass lining withstands upto 2000 ppm of TDS, 500 ppm of Chloride and 7pH of water.

OTHER BRANDS

Galvanized Iron (GI)

- GI coating has mainly Epoxy / Zinc Coat or Paint that does not withstand hot water and may not be suitable for drinking water.
- Coating on GI may not avoid rusting totally. Hence, not recommended for hot water storage tanks and heaters.
- This type of coating may not protect all elements of solar water heater like nozzle and access door. Corrosion occurs.
- Salts, bases and acids attack on zinc coating of GI that result in unclean water and also unhygienic for health.
- Zinc coating gets removed during welding and at high temperature thus, resulting into corrosion of inner tank. This results in red color water and solar water heater life decreases
- Use of Zinc Coating or Epoxy Paint is not recommended due to corrosion, red water output & incomplete coverage. Guarantee is also for short period.
- Galvanized iron (GI) can withstand upto 500 ppm TDS, 50 ppm of chloride and 7 pH of water



KNOW THE BEST, CHOOSE THE BEST, BE THE BEST

Inner tank



Inner tank is the heart at solar water heater. Sudarshan Saur uses glass lined technology for inner tank which is proven and accepted all over the world specially for hot water tank and solar water heater tank.

— But other systems in market —

mainly use -Galvanized Iron / Ceramic Coating / Paint, which is not proven method for hot water application and solar water heaters.



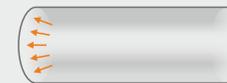
20% more hot water

Compared to assistant tank system Sudarshan Saur GL system gives 20% more hot water.

— But other systems in market have —

Tank capacity not equal to system capacity. 200 LPD system actually delivers 158 LPD hot water that means 20% less hot water.

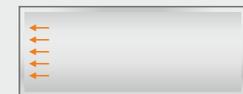
Withstands maximum pressure



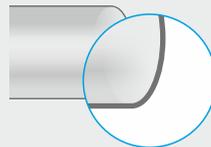
Sudarshan Saur has capsule dish-end shape to withstand pressure.

— But other systems in market have —

Embossed flat dish-end that cannot withstand pressure.



6 times thicker tank



Sudarshan Saur GL model has tank thickness is upto 2.5 mm. It enhances tank life.

— But other systems in market have —

tank thickness 0.40 mm



Access door



Sudarshan Saur has access door for easy cleaning of the tank.

— But other systems in market have —

No door for cleaning option.

KNOW THE BEST, CHOOSE THE BEST, BE THE BEST

Suitable water type

Sudarshan Saur GL model is suitable for any type of water.

— But other systems in market —

are not suitable for hard water. SS tank suitable only up to 50 ppm chloride water hardness.

Guarantee terms

Sudarshan Saur gives 10 years guarantee

— But other systems in market —

give only 1 year conditional guarantee for assistance tank & free servicing guarantee for 6 months.

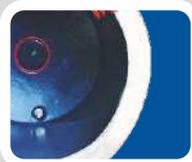
UV resistance outer cover

Sudarshan Saur use pure polyester, powder coated G.I. cover suitable for UV resistance. It is corrosion free.

— But other systems in market —

use color coated / SS 202 cover

Better PUF quality



Sudarshan Saur uses advanced European Technology with Cyclopentane foam, which keep water hot for longer duration of time. Due to single stroke PUF it results in uniform density hence less heat loss. It's also environment friendly.

— But other systems in market have —

Low density PUF giving low hot water



3T gold standard tube



Sudarshan Saur has 3T Gold Standard tubes with our own plant facility to test tubes by German make "Optosol Machine". The machine to be used by manufacturer of tubes only. It results in higher rate of heat absorption and very lower in emission.

— But other systems in market have —

no standard tubes for heat absorption. here we get less hot water temperature.

Maintenance



Sudarshan Saur has no feeder tank, for that no periodic maintenance and good water pressure delivered.

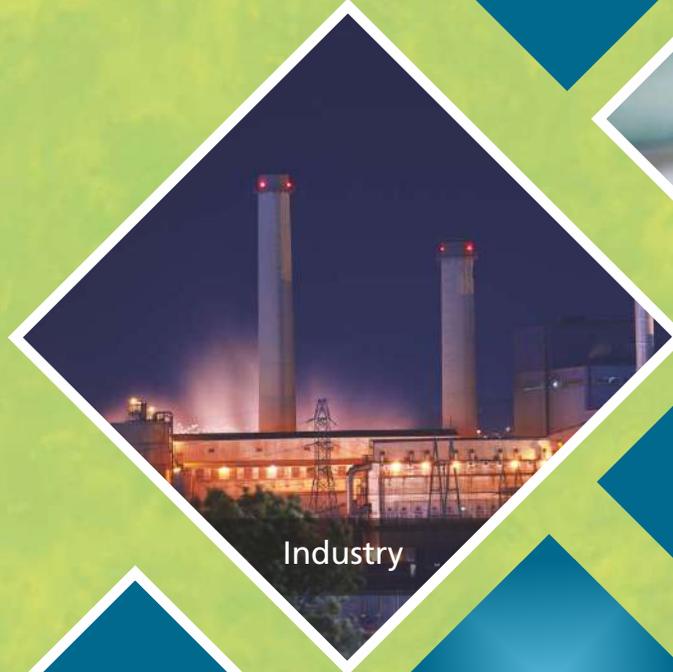
— But other systems in market have —

Feeder tank that always gets blocked due to dust particles in cold water. Hence continuous maintenance is required. Because of feeder tank low water pressure delivered. So, it takes time to fill bucket.



SUCCESSFUL COMMERCIAL MODEL

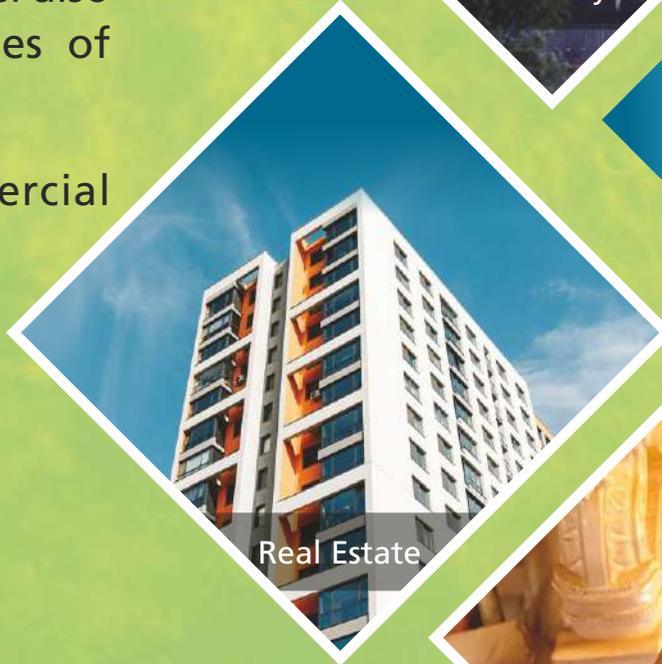
- This glass lining model also cater to the all types of commercial sectors
- Save big on commercial energy costs.



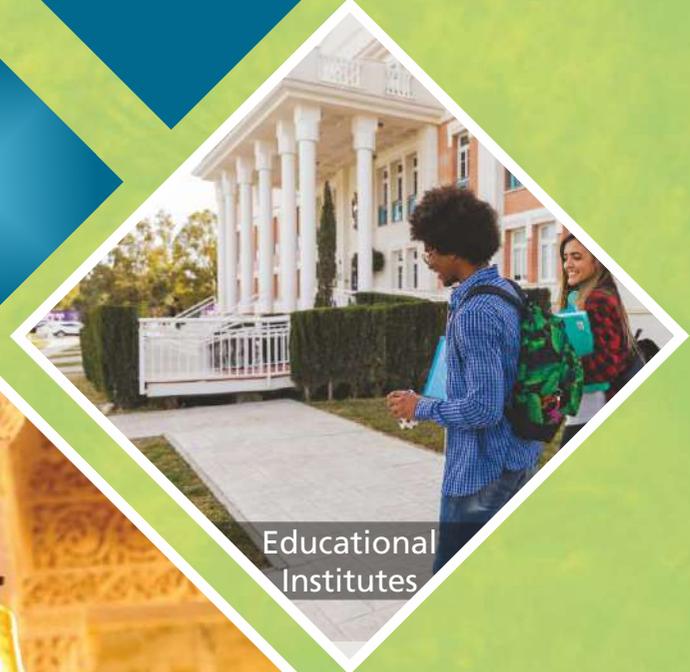
Industry



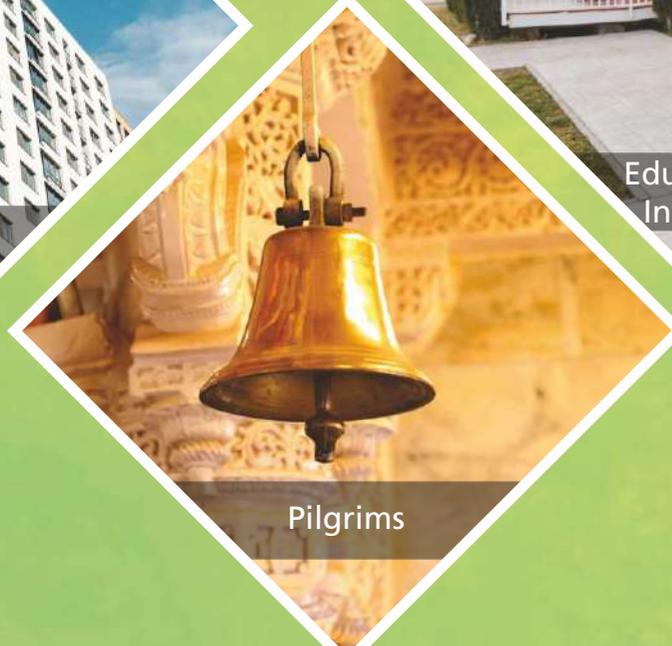
Hospitality



Real Estate



Educational
Institutes



Pilgrims

DOMESTIC SYSTEM INSTALLATION



SIMPLE CONNECTION



SIMPLE CONNECTION



SIMPLE CONNECTION



SERIES CONNECTION



SERIES CONNECTION



SERIES CONNECTION

COMMERCIAL SYSTEMS INSTALLATIONS



TAJ HOTEL, AURANGABAD



**SANT GAJANAN MAHARAJ SANSTHAN,
SHEGAON**



CONGO COLLEGE, COIMBATORE



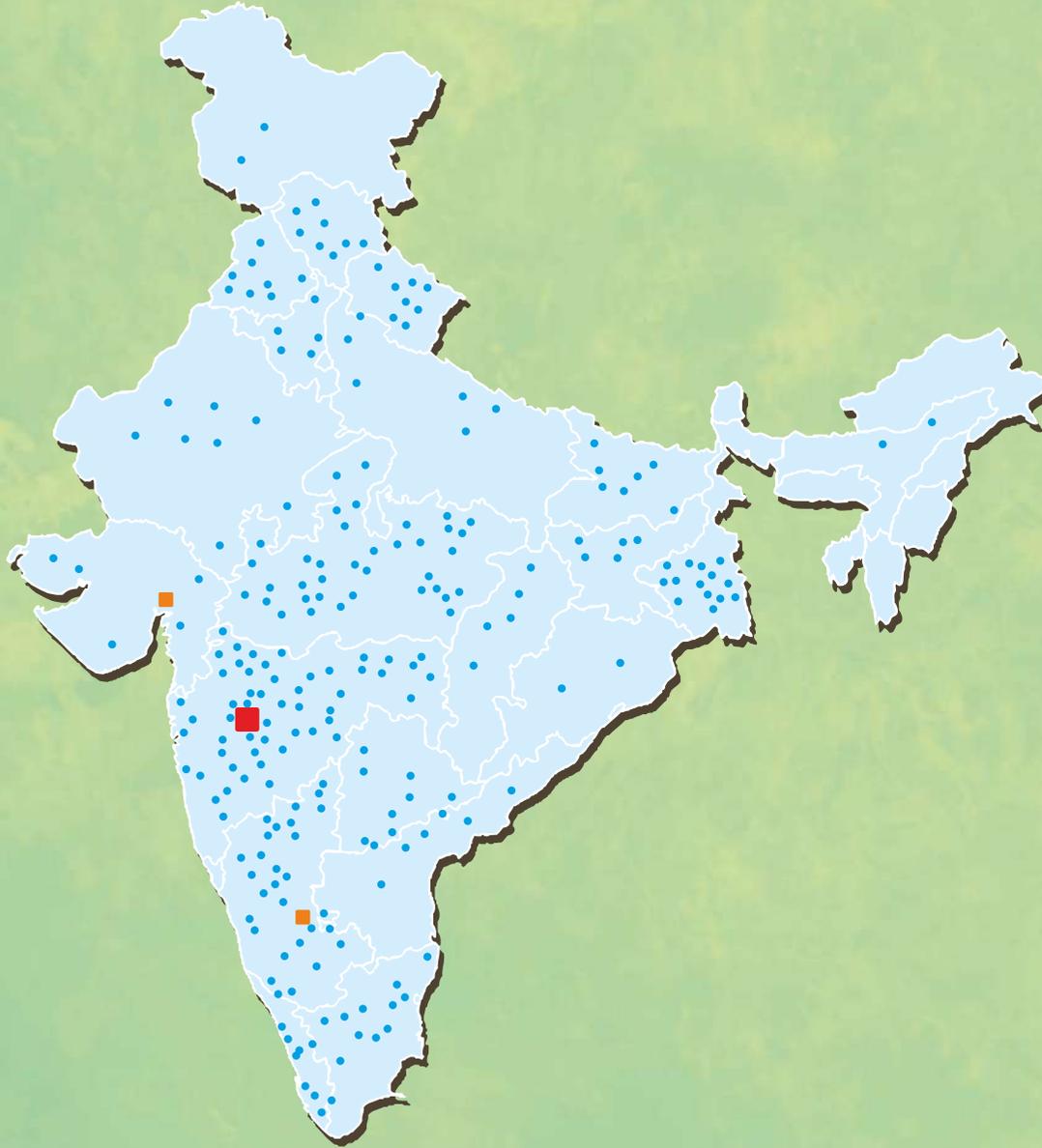
SPINNING MILL, BHOPAL



K. RAHEJA BUILDERS, PUNE



PIONEER GROUP, NAGPUR



- Head office & factory
- Branch office & warehouse
- Distributor

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