

The Best of German & Swiss Technology at Indian Prices

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SHARADA INVENTIONS

SOLAR HOT AIR / OIL / STEAM GENERATION SYSTEM

Outcome of intensive research at SHARADA INVENTIONS offer unique Solar Hot Air @ high Temperature, High-Therm oil circulating system even @ 350°C & Solar Steam system @ 2 to 16 bar pressure for various applications. Controlled temperature even upto 600°C and desired pressure, are some of the excellent features of the system.

We can design, Solar systems to suit the user's specific requirement. The system performance is practically maintenance free, and it does not involve any running cost.

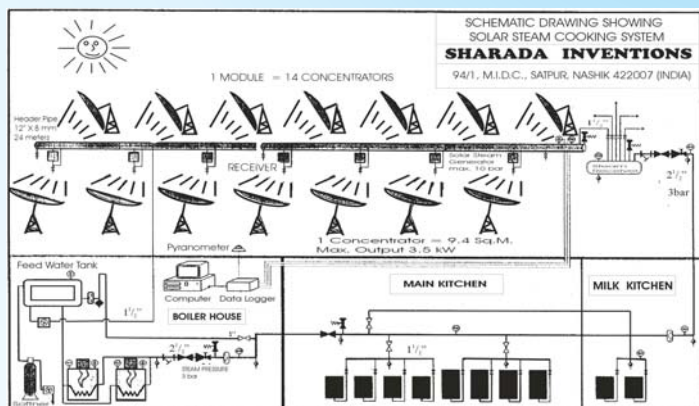
Features:

- ❖ 100% Eco friendly.
- ❖ No generation of hazardous gases such as Carbon dioxide, carbon monoxide etc.
- ❖ Large parabolic solar concentrator offers most efficient output.
- ❖ Steam generation of very large quantity possible.
- ❖ Steam pressure upto 16 bar possible.
- ❖ Hot air at very high temperature possible.
- ❖ Thermal oil temperature upto 350°C possible.
- ❖ Centrally controlled automatic Sun tracking mechanism.
- ❖ Extended period of operations possible even after Sunny hours.

Benefits:

- ❖ Saves drastically on ever increasing fuel cost.
- ❖ Elimination of CO₂, avoids stringent law implications.
- ❖ 100% depreciation in 1st year itself under section 32 of income tax Act 1956.
- ❖ Subsidy to the tune of 50% from MNES.
- ❖ Fast payback.
- ❖ Revenue / income can starts from 2nd year itself by way of saving the fuel cost.
- ❖ User can be eligible for getting World recognized Eco-friendly awards.
- ❖ Can easily be configured to existing system with quick change over mode.

Schematic of Steam Generation system



Photograph of Steam Generation System



**YOUR GESTURE OF CONSIDERING SOLAR SYSTEM IS A MATTER OF PRIDE AND
COULD BE REMARKABLE EXAMPLE TOWARDS POLLUTION FREE INDIA !!!**

Brief description:

The conventional method to generate Steam, Hot Oil or Hot Air is by using boilers fired on LDO / Diesel / LPG / Coal / Firewood or Agricultural waste / Electricity etc. The prices of these sources are increasing prohibitively. It is needless to state that the natural resources of above Fossil Fuel are fast depleting and use of Wood as fuel leads severe Deforestation causing Ecological unbalance. In addition to above, burning of these fuels leads to generation of CO₂, which is main cause of Global Warming. Days are not far off, when very rigorous restrictions will be imposed by international standards on generation of CO₂. Moreover processing of CO₂ will be highly expensive by way of Capital investment and running cost.

Solar Energy is the best solution to avoid all these problems.

* **BHASKAR*** Solar Parabolic Concentrators are manufactured in collaboration with Mr. Wolfgang Scheffler, the world renowned German Scientist. These are used to generate Hot Air, Steam, and High Temperature Thermal Oil. These Solar Concentrators of 12.6 sq. mtr in size are fitted with set of acrylic mirrors. The temperature at focal point concentrated on heat receivers can reach up to 930°C.

Principle of Operation:

Solar Parabolic Concentrators are arranged in pairs (North South oriented) to form an array. Each pair has common heat receiver (specially designed) at focal point. Such number of heat receivers connected through header line, generate Steam or Hot Oil or Hot Air. This generated Steam or Hot Oil or Hot Air is then transported to the point of utility through suitable insulated pipeline or duct.

This Solar Heat Generating System can easily be configured to existing system with quick change over mode without any major changes in the present production setup or methods.

In this system, Steam can be generated at 2 to 16-bar pressure, Oil can be heated even above 350°C or Air can be heated directly above 750°C or indirect heating of Air can be achieved using Heated Oil up to temperature of 250°C.

AREAS OF APPLICATION:

Pharmaceutical Industries.

Chemical Industries

Wineries

Extrusion Plants.

Coating & Lamination Industries

Soap Industry

Paper Industry

Paint Shops

Food Processing

Wood Seasoning

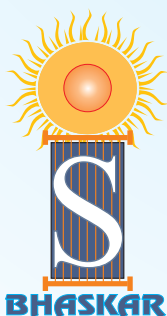
Accelerated Curing of Cement products

Incinerating

Cashew Processing

Packaging Industries

SOLAR ENERGY FREE ENERGY CLEAN ENERGY FOR EVER



(SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE)

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