

---

## *Report on “SURYA-12” workshop*

A workshop on homemade SOLAR COOKER was held in **Department of Electronics and Telecommunication** of GHARDA INSTITUTE OF TECHNOLOGY, LAVEL in auditorium on Saturday 09/02/2013. It was conducted by PULSE-EXTC.

Solar cooker is device that allows us to cook, food using the sun's energy as fuel. It is possible to cook rice, daal, vegetables, potatoes, fish, meat & eggs easily on a solar cooker twice in a day. Also you can soups, noodles & make tea hot milk & water for home use which can be stored in thermos for hours.

The homemade solar cooker “SURYA-12” can be made in just rupees 100 in just one hour at our home.

Materials used are as follows-

1. Carton box, card board or a big size shoe box, depending upon the size of solar cooker you want.
2. 40mm Thermocol sheet.
3. Aluminium foil.
4. Plastic sheet used for book cover thick enough.
5. Fevicol, gum, cello tape, brown tape, thermocol-cutter & a scale.
6. Black board paint or ordinary oil paint & paint brush.
7. A stainless steel tiffin box.

How to make SURYA-12 a homemade solar cooker-

1. Make a box of '19 inch X 19 inch X 6 inch' using cardboard.
2. Make the insulation at the base & four side walls by thermocol.
3. On thermocol, make inner cardboard box using thick card board.
4. Stick aluminium foil on the walls of the inner card board box seal corners & edges by brown tape.

5. Paint aluminium foil by a black paint.
6. Now make lid by cardboard & make window for it.
7. Now fold outward the other part of lid & make a reflector using aluminium foil.
8. Take an appropriate stainless steel tiffin box & paint it black.

Thus, we have conducted workshop successfully by making 38 solar cookers.

**Convener**  
**Prof. S. S. Sawardekar**

**Student co-ordinator**  
**Viraj Shirkar**

**H.O.D.**  
**Prof. S. C. Munghate**