

Solar cooker for Balconies

The solar cooker which is available in the market is a box type solar cooker. Last thirty years' same design of cooker is being used, which consumes approximately 4 feet x 4 feet shadow free space. In metro cities this space is not available in every house. In multi storied buildings space is limitations and availability of shadow free space is again more difficult. This box type cooker requires attention and required to adjust after each 1 .5 hours.

Because of this reasons use of solar cooker is very limited. You cannot see a solar cooker in a shop which is selling kitchen equipment like mixers, microwave ovens, refrigerators etc. because the demand is very less.

Shri Milind Kulkarni has developed a design of a Wall mountable common axis, single step tracking, concentrating solar cooker.

This cooker is specially designed so as to benefit the residents of multi storied buildings. This cooker can be mounted on the parapet wall of the balcony or below the window This wall mounted solar cooker has cylindrical pipe which is made up of glass in which the cooking utensils are being placed and it is surrounded by the special shape reflector which helps to concentrate solar energy.

All utensils could be lifted by single metal clip which makes loading and unloading very easy. Once the reflector of 'wall mounted cooker is adjusted according to the position of the sun, it does not require any personal attention. After 2 – 2.5 hours' food becomes ready. For the people living in the multi storied building, wall mounted solar cooker becomes beneficial due to its advantages like wall mounted structure, safe, efficient, eco-friendly and no need of personal attention once positioned properly. Grilling of vegetables also possible. This solar cooker also can be placed on the ground level.

Potential of wall mountable solar cooker -

- Approximate sales potential in Pune
- Population of Pune - Approximate. 30,000,00
- Considering 5 people per home so number of homes = $30,00,000 / 5 = 6,00,000$ no.
- If we consider only 25 % of homes are in condition to purchase 25 % of 6,00,000 = 1,50,000 units
- Price tag of this cooker would be 5,500.00 to 6000.00 which is one-time investment for solar cooking affordable to any middle class and even lower middleclass family.
- This cooker will play great role in preparing healthy food and at the same time conventional fuel saving and pollution control.

