

Concrete Funnel Solar Cooker: Experiences with Making and Cooking

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Objective: Demonstrate and document the procedure to make the concrete funnel solar cooker, Testing performance of the cooker, Demonstrate various types of cooking processes

Relevance: Hundreds of millions of people in world still depend upon firewood and bio-waste for their cooking needs. These methods are unhealthy and lead to drudgery particularly to women. Concrete Funnel Solar Cooker is a rugged, maintenance free and long life design with low to medium cooking rate.



Concrete Bottom Piece



Concrete Middle Piece



Concrete Funnel Piece

Fabrication of Concrete Funnel Solar Cooker: The mould is made from 3 mm thick mild steel sheets. The cooker has three main parts: funnel, middle and bottom piece, each made in different mould. Around 100 litres of concrete is needed. Concrete surface were smoothed by grinding and reflecting mirrors were pasted on them.



Mould Pieces for Funnel

Cooking: Diverse type of cooking like Indian tea (prepared with milk and sugar), Instant noodles, steaming of potato and rice and roasting of groundnut could be done. Most cooking can be done in 1 to 2 h.



Instant Noodles



Indian Solar Tea



Boiled Potato
Sweet Potato