**Technology category**: Energy, lighting and fuel

**Title:** Tava stove designed for commercial and institutional kitchens

**Year of development: 2011 - 12**

**Introduction: PYRO Tava stove**

The value of the food vendor market in India is estimated to be Rs 816 billion. This dense and competitive market, requires fuel efficient technologies to save fuel costs, improve the working atmosphere for the cooks and extend their productive life span. There are three typical types of cooking practices in India – boiling, roasting and frying. The PYRO tava stove is designed to cook on a flat plate and is specifically designed for roasting rotis, kerala parottas, dosas, omelettes etc.

TIDE has developed biomass fired tava stoves for street food vendors that save 40% fuel over conventional stoves in three different sizes

Tava size 2 ft x3ft

Tava size 3ft x 4 ft

Tava size 2.5 ft x4 ft

**Fuel used:** Firewood at a burning rate of about 3 kgs/ / hr

**Image:**





**Developed by:** Svati Bhogle and Velu forTIDE

**Advantages:**

* Fuel saving of 40% over conventional stoves and so reduces cooking cost.
* Durable life of stove-more than 5 years.
* Presence of air-vents to regulate fuel burning rate
* Lined with cold face insulation bricks to prevent heat loss
* \*Available with chimney to expel release of smoke away from the cook and diners

**Features:**

* Designed for cooking on a flat plate
* Ideal for food items like dosa, parotta, omelette, pan cakes etc.
* Available in 3 different cooking capacities
* Long sticks of firewood, briquettes, coconut fronds or any woody biomass can be used as a fuel.
* Time taken for plate to reach cooking temperature 15-20min

Weight :110kgs

**Current status:** In active use by street food vendors in Karnataka, Kerala and Tamil Nadu, for making dosas and parottas. More than 1000 tavas purchased by street food vendors in the unsubsidized mode.

**Links:** <https://www.youtube.com/watch?v=UqzHfSN9J2s>

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