**Improved Cook Stove (Banglar Unan)**

**Basic Principal:** CCDB has partnered with the Institute of Fuel Research and Development (IFRD) of Bangladesh Council for Scientific and Industrial Research (BCSIR) for developing a double burner named Banglar Unan in accordance with the requirement of rural households.

The unique features of the Banglar Unan improved cookstove are:

1. Ultra-high thermal efficiency of 40.40%, resulting in up to 75% fuelwood savings
2. Two burner design (ease of use for all cooking tasks)
3. Hybrid use: indoors with chimney (during rainy season), outdoors (during dry season)
4. Burns all fuels (not limited to fuelwood, supports the common use of leaves and twigs during dry season)
5. High durability and long life (cast iron burning chamber, stainless steel cover, refractory wool insulation)
6. Designed in Bangladesh, made in Bangladesh

**Benefit for the User:**

* Higher efficiency (Tested thermal efficiency is 40.4%, almost 4 times higher than traditional cookstove)
* Approximately 70-80% fuel wood savings
* Weekly monetary savings around BDT. 300
* Time savings
* Increased household income (as an indirect impact of time savings, reported by users during focus group discussions)
* Reduced Indoor Pollution
* Social Upliftment
  + Empowerment of women
* Advantages compared to other existing ICS models in Bangladesh:
  + Higher usage/adoption rate
  + Unique and attractive product design
  + User friendliness: Fully compatible with traditional cookstove Durability (compared with other ICS technologies)
  + Very high built quality

**Contribution to Climate Change Mitigation:** The emission of small particles, carbon monoxide and other noxious fumes from traditional cook stoves or open fire cooking is quantified up to 100 times higher than the recommended limits. Banglar Unan reduces emission of greenhouse gases (carbon di-oxide and methane) and black carbon discharge. Secondly, if we compare Banglar Unan combustion with traditional stoves, it can use a wider variety of fuels more effectively; in this way it saves fuel. Which means prevention of deforestation process in the rural areas in Bangladesh.

**Regional Feasibility:** All areas.

**How to purchase**

Contact with CCDB.

**Cost:** Cost range around BDT 8000 – 8500 including manufacturing, assembling and transportation cost.