



ERA Cooking Kit (eCookK)

SGP The GEF
Small Grants
Programme

Energy Research Applications (ERA) is a science and technology (S & T) based organization registered under Registration Act, 1860.

ERA has been instrumental in working closely with the women groups to reduce drudgery and check the release of Green House Gases (GHG) and in reinforcing its commitment of energy conservation in traditional inefficient systems and technologies in the cottage industries and households in collaboration with GEF UNDP SGP. Two patents are in the credit of ERA in collaboration with Department of Science & Technology (DST), Govt. of India.



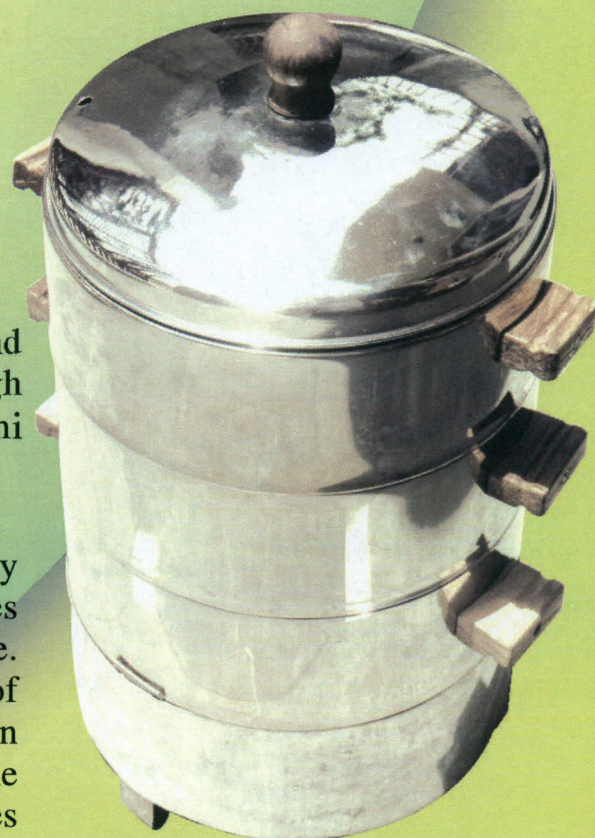
Forest-Mother Nature at Your Services :

Winning wastes either from bio or industrial for

- quality life of vulnerable women and children
- health of forest and nature
- mass entrepreneurship
- sustainable agriculture

through climate technology producing clean, low cost and efficient fuel source "Energy Cake" giving temperature as high as 600°C is an endeavour of IIT Kanpur and IIT Delhi Alumni

Oven : An oven, ERA Cooking Kit (eCookK) is especially designed to reduce energy, time & cost using Energy Cakes (EC). This provides two advantages first on efficient fuel (i.e. EC) and second on efficient utensil (eCook). It is made up of stainless steel/ aluminium with three different chambers in which three different items can be prepared at the same time i.e Indian popular food like rice, pulses(Dal) & vegetables can be cooked at one go. This oven is protected under IPR.



Cooking Time :

The cooking time of bottom chamber for pulses (400 gms) is 35 minutes and rest above second and third chambers for rice (each 1 kg) will finish cooking in another 40 minutes (total 75 minutes).

Uses and Users: This ERA Cooking Kit is specially designed keeping in view the requirements of the rural people where normal family size consist of six to seven people. A Family (of seven members) can cook two kilo rice and 400 gms of pulses (Dal) in three different chambers at one go. Besides this urban people can also use it to prepare dishes which are generally steam cooked like idli, dhokla, cake etc. The purpose is to use the heat efficiently and at the same time reduce the cooking time both on Energy Cake and LPG.



ERA Cooking Kit-Accessories & Fitting Steps

Energy Saving :

One set of ERA Cooking Kit (eCookK) will save 1200 kg (=2 kg per meal x 2 meal per day x 300 days cooking per year) of wood or 696 kg of coal per year or other sources of energy as given in table below. Accordingly this will mitigate 1.56 ton of CO₂ replacing fuel wood or 2.04 ton of CO₂ replacing coal in one year and so on.

Particulars	Wood	Coal	Kerosene	Dung Cake	LPG
Savings of Energy Sources	1200 kg/yr	696 kg/yr	273 litres/yr	2049 kg/yr	11 cylinders/yr
CO ₂ Mitigation	1.56 ton/yr	2.04 ton/yr	198.6 kg/yr	1.52 ton/yr	0.44 tons/yr

Partnership: Endeavour of ERA to design, develop and popularize S & T based systems for Energy Efficient Economy through Entrepreneurship is being strengthened in partnership with National Science and Technology Entrepreneurship Board (NSTEDB), Department of Science and Technology (DST), Government of India and GEF UNDP SGP. 12 GEF UNDP SGP NGO partners in twelve states in India have joined hands with ERA through Memorandum of Agreement for this purpose.

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