



Cooking for Change:



Where Health Meets Responsibility.

GHG tackles a critical issue in India, where 55% of the population relies on inefficient chulhas. The introduction of 'GHG Oorja,' an affordable and fuel-efficient cook stove, is a game-changer. This innovative solution reduces carbon monoxide emissions by over 80%, accommodating various fuels such as wood, coal, and biomass pellets.

GHG envisions widespread adoption through a well-established distribution network covering rural India. Collaborations with NGOs, organizations with CSR funds, and local entrepreneurs, including tea stall holders, facilitate live demonstrations and direct promotion of 'GHG Oorja.' The company also extends its impact by manufacturing pellet-based commercial biomass stoves for use in canteens, hotels, and midday meal facilities.

The urgency for change is evident in the prevalent use of traditional mud stoves in nearly 80 million homes. The resulting indoor air pollution poses severe threats to both the environment and the health of women and children, consuming a staggering 4,800,00,000 kg of wood daily.

GHG recognizes the profound impact on health, with women facing increased susceptibility to lung diseases, a shortened lifespan of almost 10 years, and the development of cataracts. The 'GHG Oorja' cook stove emerges as a crucial intervention, providing access to cleaner cooking technologies.

The stove's advanced technology ensures a 90% reduction in smoke, saving 50-70% of firewood and significantly cutting carbon monoxide emissions. Developed over eight years, 'GHG Oorja' demonstrates efficient combustion, reduced cooking time, and a structure that saves 1000 kgs of firewood per year, preventing the emission of 1700 kg of carbon dioxide.

Imagine the transformative impact if even a fraction of the 80 million homes currently using traditional mud stoves could switch to 'GHG Oorja.' This shift could save millions of kilograms of firewood from burning, preventing significant CO2 emissions. GHG invites support for 'GHG Oorja,' aiming to bring smiles to one crore families and provide a cleaner, healthier environment for rural women and their children. Your assistance in this mission can make a substantial and meaningful difference.



What is GHG Oorja Stove?


GHG Oorja is a biomass stove developed using scientific principles and the latest technology. It accommodates various fuels such as wood, agro waste, cow dung cakes, corn stalks, coal and coconut shells.

BENEFITS:

- **Low Smoke:** Minimal smoke compared to traditional mud chulhas.
- **Wood Savings:** 50% reduction compared to mud chulhas.
- **No Continuous Air Blowing:** Eliminates the need for continuous air blowing, unlike mud chulhas.
- **Portability:** Portable design allows flexibility in placement.
- **Front Loading:** Similar to mud chulhas, no need to cut wood into small pieces like other biomass stoves.



Comparison between Traditional Stove and GHG Oorja:

 Traditional Stove	GHG Oorja Stove	Minimum criteria of a improved cook stove	
High power Thermal efficiency (%)	10% To 12%	46.18%	25%
High Power CO (g/MJd)	15% To 20%	4.01	≤ 10
High Power PM 2.5(mg/MJd)	700 To 1200	41	≤513
Safety	—	95	≥753

KEY FEATURES:



Attractive Design:
Aesthetically pleasing design.



Strong & Durable:
Built for durability and longevity.



Low Smoke Emission:
Utilizes scientific principles & technology for minimal smoke.



Smoke-Free Environment:
Creates a fresh, smoke-free environment at home.



Safety Guard:
Prevents burn hazards with a safety guard.



High Power Thermal Efficiency: This has been measured scientifically to achieve an efficiency of 46.18%



Taste Preservation: Maintains the same taste as traditional three-stone chulha.



Cost & Space Saving: 50% reduction in burning wood translates to savings in money, time & space.



Efficient Cooking: Guided flame ensures less time consumption during cooking.



Comfortable in Summers: Unlike clay stoves, GHG Oorja remains comfortable even in summers.

Manufactured by: GHG Reduction Technologies Private Limited

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