

Comparison of Steam Injected Stove Technology

Steam Injection Method	Flame color	Burning Rate (kg/hr-m ²)	Steam Consumption (lph)	Fuel to Steam Ratio	Thermal Efficiency (%)	Power Output (kW)
Without Steam	Yellow with red	52.17	-	-	7.8	0.93
Saturate Steam	Yellow to orange	54.0-71.9	1.23-1.35	2.8-3.4	7.8-9.0	0.97-1.49
Super Heated Steam	Pink to yellow	43.9-53.1	1.25-1.44	2.24-2.56	10-1-12.0	1.2-1.35




Without Steam



Saturated Steam

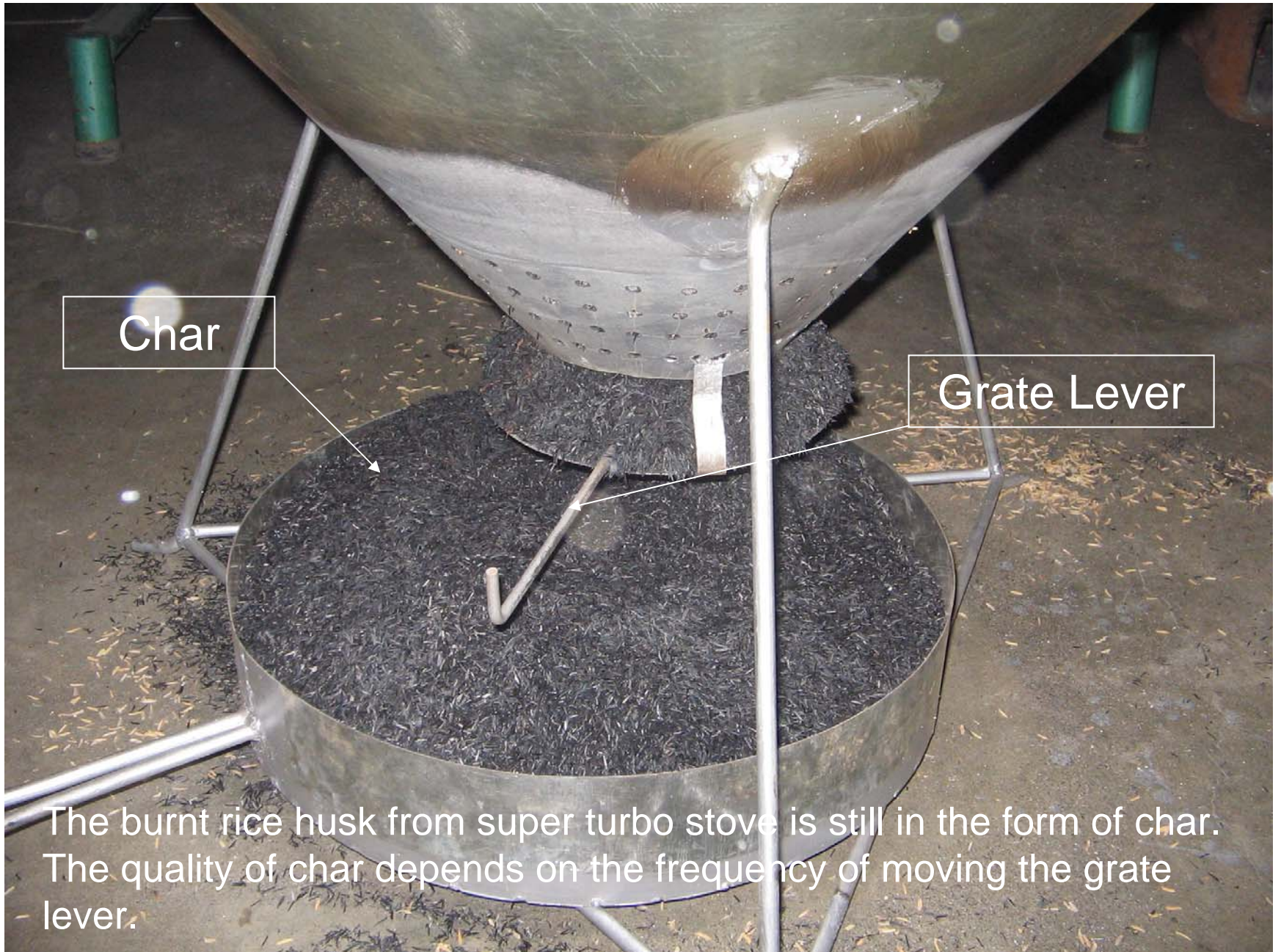


Superheated Steam



Super Turbo II
(superheated steam)

Quasi Gasifier Stove
(saturated steam)



Char

Grate Lever

The burnt rice husk from super turbo stove is still in the form of char. The quality of char depends on the frequency of moving the grate lever.