

## Prime Square Fuelwood Cookstove Water Boiling and Safety Test Results

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Stove Manufacturer</b> | Prime Cookstoves                |
| <b>Stove Model</b>        | Prime Square Fuelwood Cookstove |

### Water Boiling Test

|                       |   |
|-----------------------|---|
| <b>Testing Center</b> | GERES Biomass Energy Laboratory (G-BEL), Phnom Penh, Cambodia |
| <b>Test Protocol</b>  | Water Boiling Test - Version 4.2.3                            |
| <b>Fuel Used</b>      | Average Cambodian Hardwood                                    |
| <b>Pot Used</b>       | 5 Liter - Aluminum  |
| <b>Test Dates</b>     | August 2014   |

| IWA PERFORMANCE TIERS               | units      | Average | St Dev | COV   | Tier |
|-------------------------------------|------------|---------|--------|-------|------|
| High Power Thermal Efficiency       | %          | 34      | n/a    | 3.0%  | 2    |
| Low Power Specific Fuel Consumption | MJ/(min·L) | 0.028   | n/a    | 2.9%  | 3    |
| High Power CO                       | g/MJ       | 5.2     | n/a    | 13.0% | 4    |
| Low Power CO                        | g/(min·L)  | 0.032   | n/a    | 18.6% | 4    |
| High Power PM                       | mg/MJ      | 242     | n/a    | 14.5% | 2    |
| Low Power PM                        | mg/(min·L) | 1.4     | n/a    | 34.6% | 3    |
| Indoor CO Emissions                 | g/min      | 0.31    | n/a    | 15.5% | 4    |
| Indoor PM Emissions                 | mg/min     | 14      | n/a    | 15.5% | 2    |

*n/a = not available from the reports assessed by The Stove Auction*

### Safety Test

|                       |   |
|-----------------------|---|
| <b>Testing Center</b> | GERES Biomass Energy Laboratory (G-BEL), Phnom Penh, Cambodia |
| <b>Test Protocol</b>  | Biomass Stove Safety Protocol (BSSP) v1.1                     |
| <b>Fuel Used</b>      | Average Cambodian Hardwood                                    |
| <b>Test Dates</b>     | August 2014   |

|             |                            |                       |
|-------------|----------------------------|-----------------------|
| <b>Test</b> | <b>Overall Point Score</b> | <b>Overall Rating</b> |
| Safety      | 85                         | Good                  |