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G-BEL

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STOVE PERFORMANCE REPORT

3G STOVE

SNV – S16-003

JULY 2016



G-BEL Laboratory is part of the RTKC (Regional Testing and Knowledge Center) funded by the GACC (Global Alliance for Clean Cookstove).

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1-SAFETY TEST RESULTS

The safety tests results of 3G Stove in different criteria are shown in the table below.

Table 1: Safety evaluation of the 3G Stove

Safety Evaluation	Mimi Moto				
	Rating	Value	Weight	Total	Comments
Sharp Edges/Points	GOOD	3	1.5	4.5	The stove has good connections or joint but there is a shape edge located at the lower part of the stove.
Cookstove Tipping	BEST	4	3	12	The stove is stable to maintain an upright orientation during operation. But the cooking pot or its content may spill if the stove is tipped.
Containment of Fuel	BEST	4	2.5	10	The combustion chamber is flat, but everything is in the chamber including the burning process. So the wood fuel cannot move out from the chamber.
Obstructions Near Cooking Surface	BEST	4	2	8	There are no the obstruction near the cooking surface.
Surface Temperature	POOR	1	2	2	The temperature of stove surface is around 98 °C (especially at the top part) during operation.
Heat Transfer to Surroundings	BEST	4	2.5	10	The temperature of the floor and wall is around 37 °C.
Cookstove Handle Temperature	BEST	4	2	8	There is no handle to close the feed during operation, so there is no touch during operation.
Chimney Shielding	BEST	4	2.5	10	There is no chimney for regulating the burning process.
Flames/Heat Surrounding Cookpot	GOOD	3	3	9	More than half part of the surface, the flam covered the cooking pot.
Flames/Heat Exiting Fuel Chamber	BEST	4	4	16	No flam exiting fuel chamber.
Total Score /100	89.5				
Stove Rating	GOOD				
Stove Safety IWA Tier	TIER 3				

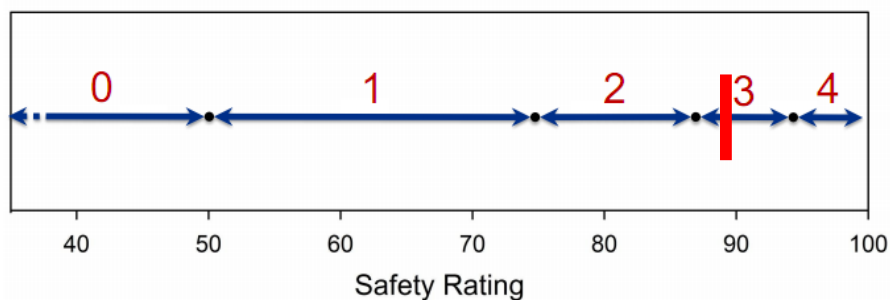


Figure 8: Safety Rating and Tiers