

# SARDAR PATEL RENEWABLE ENERGY RESEARCH INSTITUTE ANAND, GUJARAT-388 120

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## ANNEXURE I

Technical Specifications of SPRERITECH Improved Biomass Cookstove for domestic use (Model: NDSL-190):

SPRERI designed and developed Improved Biomass Cookstoves to provide maximum and efficient biomass fuel burning, emit less harmful emissions, and provide better safety for users by reducing the surface temperature. Performance evaluation of natural draft biomass cookstoves (enamel-coated side feeding) has been carried out as per Bureau of Indian Standards (BIS) guidelines at SPRERI.



SPRERITECH natural-draft biomass cookstoves (NDSL-190)

Performance of SPRERITECH IBCS (Model: NDSL-190)

Performance parameter	Values
Burning rate (kg/h)	2.5
Thermal efficiency (%)	28.4
Power rating (kW)	3.4
CO (g/MJ <sub>d</sub> )	1.92