

# **Appendices**

## **List of the Appendices:**

**Appendix 1: Photo documentation from field observations**

**Appendix 2: Table supporting formulas for Producible Electricity**

**Appendix 1: Photo documentation from field observations**





## Appendix 2: Table supporting formulas for Producible Electricity

**Table 1: Formulas for Producible Electricity and Electricity Consumable in Edwenase.**

Converted the HHV from MJ/kg to kWh/kg	Using metric 1 kWh = 3.6 MJ HHV in MJ/kg ÷ 3.6 MJ/kWh
Total energy content of CPHs produced in a year	Using annual CPHs producible= 53 tons (53,000 kg) and gasifier efficiency as 30 % Total energy content = HHV × Annual CPHs produced.
Possible annual electricity generation from CPHs	Total energy content × Gasifier efficiency
Total annual electricity consumption	Using 150 households and electricity per household per month as 13.5 kWh Total electricity consumption= Households × consumption per month × 12