

Rural Electrification

Site of Intervention

- Kandhal, Odisha. INDIA

Type of Intervention

- Supply, Installation and Commissioning of Biomass Gasification System for 100% Power Generation Application

Title of the Case Study

- ANKUR BIOMASS GASIFIER FOR RURAL ELECTRIFICATION

Objective of the Case Study

- To provide electricity to the remotely located Kandhal village people

Summary

- The systems were installed to meet the daily requirement of electricity of the village people

Choosing the Intervention – Motivation

- Locally available woody biomass was used in the Gasifier
- Access of electricity by rural people
- No fossil fuel required

Description of the Intervention (150 words)

- Village Energy Committees (VEC) had done test project in Kandhal, which is a remote village with majority of ST population and is surrounded with dense forest. In June, 2009 Ankur Scientific supplied, installed and commissioned two Gasifiers, each of 10 kW capacity to provide electricity to village people. Most of the families belongs to BPL. The biomass Gasifiers meet the daily requirement of domestic lighting in 150 families, community hall and primary school lighting, street lighting and other entertainment activities. Each household was provided with two light points and one power point for domestic lighting and entertainment. With the introduction of electricity in the village, the quality of life of the villagers was improved drastically and villagers were happy as now they had televisions entertainment and their children were able to study at night in proper light.

Intangible or Tangible Benefit (100 words)

- Energy access in the rural area
- Fear of wild animals has reduced
- Other applications started like flour mill, fodder cutter machines & water pumps
- The energy is clean and green

Some photographs of the project:

