

## Boiler Application

### Site of Intervention

- Madurai, Tamil Nadu. INDIA

### Type of Intervention

- Supply, Installation and Commissioning of Biomass Gasification System for Boiler Application

### Title of the Case Study

- ANKUR BIOMASS GASIFIER FOR BOILER APPLICATION

### Objective of the Case Study

- Use of alternative fuel in place of Furnace Oil for cost effective and pollution free operation

### Summary

- The system was installed for Boiler application of 6 TPH steam generation capacity

### Choosing the Intervention – Motivation

- Reduction in fuel, pollution and overall operating cost
- Woody biomass locally available
- Hassle free and clean operation

### Description of the Intervention (150 words)

- 'Ankur' Gasifier Model WBG -1500, was commissioned in Nov' 2014. The Gasifier is replacing between 3700 – 4900 LPD of FO in their Boiler. Woody biomass is being used as fuel in the Gasifier.

### Intangible or Tangible Benefit (100 words)

- Automation of the Gasifier is capable of handling a high fluctuating steam demand generation
- Approx. 40-45% reduction in fuel costs
- Pollution of black smoke from Chimney is eliminated
- Relieved from hassles of poor quality of fuel (LDO / FO)
- Operations become clean
- Semi-skilled labor can operate the gasifier
- By-products like charcoal become fuel for local labor and can also be sold in open market

Some photographs of the project:

