



Ankur Scientific Energy Technologies Pvt Ltd

Ankur Biomass Gasifier for Boiler Application

CASE STUDY



Figure 1: Biomass Gasifier Plant, Madurai, Tamil Nadu

Summary

The system was installed to replace Furnace Oil being used in 6 TPH Boiler. Due to rapid increase in prices of fossil fuel, at that time, the client was inclined to reduce their process cost by replacing Fossil Fuel with Clean and Green Energy, which in turn resulted in a lot of savings.

Objective of Intervention

To replace approx. 4500 – 6000 Liters per day of FO in their existing 6 TPH Boiler

Type of Intervention and Location

Supply, Installation and Commissioning of Biomass Gasification System for Thermal Application at Madurai, Tamil Nadu



Description of Intervention

Ankur Scientific supplied, installed, and commissioned the Biomass Gasification System in Hot Gas Mode to replace Fossil Fuel and also provided training to client's operating personnel, for them to operate and maintain the plant smoothly

Intangible or Tangible Benefit

- Payback – 1 year
- Huge savings in fossil fuel consumption
- Recently received award QCI – D.L. SHAH NATIONAL QUALITY SILVER AWARD for this Biomass Gasification Project
- The energy is clean and green
- Reduces CO2 emissions, thus reducing global warming

About Ankur Scientific

Ankur Scientific Energy Technologies Pvt. Ltd, a company established in 1986, has been in the forefront of development activities in the area of non-conventional energy sources. Set up by Dr. B.C. Jain, an internationally acclaimed technocrat, the company has, since its inception, an enviable record of development both in the area of Biomass Gasification as well as Solar Water Heating Systems.

The company has successfully developed and commercialized a very wide range of biomass gasifiers ranging in size from as small as 5 kgs per hour of biomass consumption to 2000 kgs per hour of biomass consumption.