

Rotary Dryer Application

Site of Intervention

- Tuticorin, Tamil Nadu. INDIA

Type of Intervention

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

Title of the Case Study

- ANKUR BIOMASS GASIFIER FOR DRYING APPLICATION IN ROTARY DRYER

Objective of the Case Study

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

Summary

- Our client is one of the leading Mineral processing and manufacturers in the country and is having 11 plants. Ankur Scientific has supplied and installed Gasifier model WBG 1100 in Scrubbed Gas Mode for drying application in their Rotary Dryers. This installation has boost-up their profit and resulted in repeated orders of Gasifiers to us.

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)

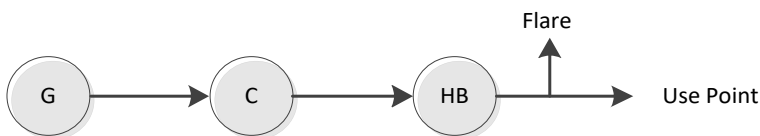
- Ankur Scientific has installed 4 plants for drying application in their Rotary Dryers

Gasifier Ratings

- 1) WBG 1100 SGM – 2.72 MKcal/hr
- 2) WBG 850 HGM – 2.10 MKcal/hr
- 3) WBG 400 HGM – 0.9 MKCal/hr
- 4) PG 1250 HGM – 3.10 MKCal/hr

All the systems are No Condensate System and using wood as biomass fuel.

Gasifier Schematic



Legends

G – Gasifier

C – Cyclone

HB – Hot blower

Intangible or Tangible Benefit (100 words)

- F.O. Consumption – Nil
- 100% Furnace Oil saving
- Pollution of black smoke from Chimney is eliminated.
- Relieved from hassles of poor quality of fuel (LDO / FO)
- Operations become clean.