



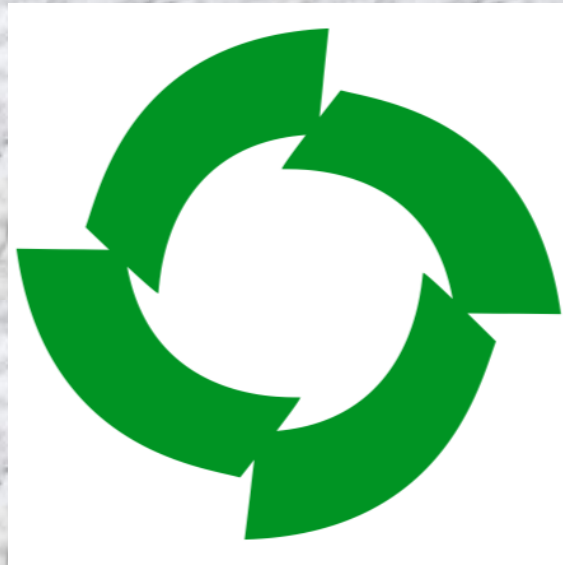
**SANDIP FOUNDATION'S**

**Sandip Institute of  
Engineering & Management**

*Department of Electrical Engineering*

# INDUSTRIAL VISIT REPORT

**: COMPANY VISITED :**



**BIOGASS PLANT  
ASHOKA BIOGREEN PVT.  
LTD.**

**:Address:  
Vill. Talwade, Tehsil- Trimbak  
District- Nashik  
Maharashtra**

# **: DETAILS OF VISIT :**

***DATE:***

***17 March, 2015***

***ORGANISED FOR:***

***S.E (Div A & Div B) Electrical Engineering***

***STAFFS VISITED:***

***Prof. Vikram Patil***

***Prof. Joydeep Sarkar***

***OBJECTIVE OF VISIT:***

***The objective of this visit is to educate the students with the information about generation of Biogas and its consecutive use in power generation***

***KNOWLEDGE CONCERNED WITH:***

***Renewable Energy***

***Power Generation Technology***

***Power System***

# :BRIEF INFORMATION:

The Biogas Bottling Plant is developed by Ashoka Biogreen Private Limited as a Research and Development unit, under technology demonstration of new RDD&D Policy of MNRE during the year 2009-10, to showcase the Integrated Technology-package in entrepreneurial mode on medium size mixed feed biogas-fertilizer plants (BGFP) for generation, purification, bottling and piped distribution of biogas.

The Cost of Project: Approximately 100 Lakhs

MNRE funding: Approximately 55 Lakhs

Net Capacity: 500 cm<sup>3</sup> per of biogas generation

The Biogas Plant basically consisted of four sections:

1. The Mixer - used to mix input feed with water
2. The Pre-Digester
3. The Main Digester where Anaerobic generation of biogas takes place
4. A Solar Heating unit to provide hot water to be used with input

The Power Generation Unit consists of:

1. A Biogas Storage Tank
2. Equipment to dry the biogas
3. Biogas operated Motor (Kirlosker Built)
4. Alternator coupled with motor for generation

The Alternator is rated at:

25kVA at 0.8 power factor supplying a voltage of 415kV (Line to Line)

Biogas supply pressure is maintained for proper operation of biogas fuelled motor to facilitate proper operation.



