



Thermax process heating solutions reduced carbon footprint- the plant is equivalent to carbon capture by **3 LAKH TREES!**

## PROJECT BACKGROUND

AVT is a public limited company promoted by AV Thomas Group. AVT Natural Products Ltd (AVT NPL) is a venture promoted, as a strategic diversification from the traditional plantation business. Operating in line with its corporate signature, the company specializes in the extraction of colors and flavors from a natural source. The Group consists of diversified Business in Tea, Rubber, and Consumer Products viz. spices, food ingredients, and healthcare products.

AVT identified with Thermax on the shared belief towards dedication to the customer satisfaction and adherence to highest quality standards and gave us the contract for a Greenfield Boiler Project.



## SOLUTION PROVIDED

ComBlocUltra Biomass Boiler Model: CBRG100-Ultra with Reciprocating Grate using Lambion, GmbH Technology

**Boiler Capacity**  
10 TPH

**Design Pressure**  
14 kg/cm<sup>2</sup>(g)

**Fuel Biomass Briquettes**

**Estimated CO<sub>2</sub> Reduction**  
11,000 TPA



## THERMAX PROCESS HEATING SOLUTIONS

A strategic business unit offers packaged boilers, thermal oil heaters, waste heat recovery boilers, hot water, and air generators. These are available in modular construction as a standard package configuration or a custom design for specific requirements. Innovated by a strong R&D that focuses on customer applications, we offer a range of heating systems designed to combust a wide range of solid, oil & gas fuels including biomass and heavy liquid fuels.

## BUSINESS PROPOSITION

Thermax proposed a briquette-fired boiler of 10 TPH@14 kg/cm<sup>2</sup>(g) ensuring energy (steam) delivered at an optimum price leveraging high-end automated biomass boiler installation. Combloc - a compact, plug & play modular construction boiler with fully automatic operation ensuring high efficiency. Thermax has offered OPEX proposition with BOO (Build-own-operate) model ensuring highest uptime at all time.

### BOILER AT A GLANCE

- **Model: CB Ultra- 100/14**
- **Capacity: 10 TPH (F&A 100°C)**
- **Type: Hybrid Water & Smoke Tube design Boiler with automated, air-cooled reciprocating combustor system of Lambion (German Technology)**
- **Design Pressure: 14 kg/cm<sup>2</sup>**
- **Operating Pressure: 9.5 kg/cm<sup>2</sup>**



### POSITIVE IMPACT

- **Optimum Cost-Effective Steam Price**
- **Guaranteed Boiler Uptime & Efficiency throughout the Product Lifecycle**
- **A significant decrease in SPM emissions**
- **Dedicated biomass fuel supply chain**
- **Ensuring consistent quality at the right price**