

# Technical Visit to Modipalm Engineering Sdn. Bhd.

AGRICULTURAL AND FOOD ENGINEERING TECHNICAL DIVISION



reported by  
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Group photograph with the management team of Modipalm Engineering Sdn. Bhd.

The Agricultural and Food Technical Division (AFTD) organised a visit to Modipalm Engineering Sdn. Bhd. (Modipalm) in Kawasan Perusahaan Telok Panglima Garang, Selangor, in July 2016, for 31 IEM members as well as non-members.

On arrival the group was received by Modipalm marketing manager Mr. Lim Zee Ping. Modipalm, formerly known as CBIP, has a 30-year history. From fabricating spare parts and servicing of palm oil mills, CBIP has grown to be one of the largest palm oil mill contractors in the world that is capable of producing 12 mills a year from 10 ton/hour to 120 ton/hour processing capacity. Currently it has 150 employees.

The management team has an average 30 years of hands-on experience in design, fabrication, retrofitting, maintaining and servicing various types of machinery and system in palm oil mills. They specialise in certain technologies with respect to pre-treatment of biogas formation, biomass handling, waste water treatment and composting.

## MODIPALM CS

Of particular note is Modipalm's Continuous Sterilisation (CS) system; it is a joint patent holder

with MPOB since 1999. The Modipalm CS system was created to improve the older generation of batch horizontal sterilisers under the following key points:

1. Automated continuous process that significantly reduces the total manpower required.
2. Safety concerns when sterilisation is carried out under atmospheric pressure instead of pressurised conditions. This is crucial as most accidents in the palm oil industry happen in the sterilisation station.
3. Producing oil of superior quality.
4. Using smaller carbon footprint and a simple foundation design.
5. Less maintenance issues as overall, the CS design involves fewer moving parts.

Modipalm's success can be attributed to its philosophy with regards to the manufacturing process. It is about the standardisation of product with optimal performance and mass production. With mass production, the chances of error will be less and cost can be optimised.

Each department in Modipalm is tasked with specific job functions and can do a high volume of product assembling with a minimum number of workers. ■