

# Technical Visit to Unfired Pressure Vessel Manufacturer

AGRICULTURAL & FOOD ENGINEERING TECHNICAL DIVISION



reported by  
Ir. Hor Kok Luen

*Ir. Hor Kok Luen is currently the secretary of Agricultural and Food Engineering Technical Division (AFETD). He has more than 16 years of working experience in the palm oil mill & related downstream industries, inclusive of biogas power plant.*

The Agricultural and Food Technical Division (AFETD) organised a visit to SEPEN Engineering Sdn. Bhd. in Rawang, Selangor, on 23 April 2016 for 11 participants.

The introduction session started with a briefing on the company which was incorporated in 2008. As a licensed Unfired Pressure Vessel (UPV) manufacturer, its core business activities are mainly in design and fabrication of processing equipment in the food based industries, larger scale bulk storage tank(s) which require in-situ erection and installation, general steel structures for machineries and buildings and the provision of maintenance shutdown services for various plants upon request.

The participants were briefed on company organisation and the various licences obtained, including those for Unfired Pressure Vessel (UPV) manufacturer issued by Jabatan Keselamatan and Kesihatan Pekerja (JKKP), Construction Industry Development Board, Malaysia (CIDB), Halal, Good Manufacturing Practice (GMP) and others.

SEPEN director Mr. Wong Kah Poh explained about the design process flow and the fabrication process, particularly the storage tank, mixing tank, silos and spray dryer as well as the fabrication and installation method of all kinds of stainless steel auger conveyor, chimney, ducting and piping work and erection of stainless steel structures and platform.

In particular the fabrication and installation of food process plants' sanitary tubing, valve, fitting and Clean in Place (CIP) systems, fabrication and installation of reactor, vessels and deodoriser, polishing works (hairline, mirror and etc..) and maintenance shutdown works for plants, machinery parts and equipment were also discussed.

The company's clients are mainly from the chocolates, yoghurt, palm oil, sauces and oil and gas based industry.

Mr. Wong talked about the challenges faced during the delivery of the finishing products, particularly on the issue of mobilisation and transportation of heavy vessels with large diameter and dimensions.

At the factory floor, production lines were segregated into two different sections: Food based equipment and non-food based equipment. It was observed that good-finishing epoxy flooring was used at the food-based equipment manufacturing line so as to produce safe and hygiene products.

At the end of the technical visit, a token of appreciation was presented to Mr. Wong Kah Poh on behalf of IEM. ■



Production line cum semi finishing products



Front view of SEPEN ENGINEERING SDN. BHD.,  
Rawang, Selangor.



Session Chairman Ir. Hor Kok Luen presenting a token of appreciation to Mr. Wong Kah Poh, Director of SEPEN ENGINEERING SDN. BHD.

