



**MERGE JATI**

# **MERGE JATI GROUP**

**Turnkey Contractor**

**Proprietary Equipment  
Manufacturer**

**UPV Maker  
& Repairer**

**ISO Accredited  
Contractor**

**Green Technology  
Provider**





## ***Your Preferred Industrial Plant Builder~~~~***



Merge Jati, was incorporated in 1999, as a supplier of machinery spare parts for palm oil mill. Throughout the years, we have grown to be a Turnkey Contractor and Proprietary Equipment Manufacturer.

Continuous improvement is our philosophy in engineering, fabrication and construction activities. We embarked on the journey of ISO accreditation to ensure our products and services are always on the top notch. Our supply and construction activities cover Malaysia, Indonesia, Thailand, Philippines, Central/South America, Africa etc.

Merge Jati has successfully completed a number of industrial plants including Palm Oil Mill, Kernel Crushing Plant (KCP), Palm Oil Refinery Plant, Biomass Plant, Oil Bulking Station & Despatch Jetty, Water & Waste Water Treatment Plant etc. The projects are implemented with Quality Management System (QMS) to ensure it is delivered on time and complied to customer's needs.

Merge Jati is a licensed Unfired Pressure Vessel (UPV) Maker, Repairer and Clutch Door Manufacturer. All UPVs and Clutch Doors are designed and constructed in accordance to ASME code and DOSH Requirement.

To address the environmental concern, we have involved in Green Technology which includes Dust Control System and Palm Oil Mill Effluent Free Technology.

# WORK IN PROGRESS



# Proprietary Equipment Manufacturer

## *Pressure Vessel*

Steriliser, Back Pressure Receiver, Clutch Door, Thermal Deaerator, Vacuum Oil Dryer, Steam Separator, Pressure Sand Filter, Water Softener



## *Palm Oil Mill Equipment*

Screw Press, Digester, EFB Press, EFB Shredder, Ripple Mill, Sludge Separator, Hydrocyclone, Claybath, Thresher, Tippler, Moving Floor etc



### **Merge Jati Group**

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POME *Free* Technology



**ZERO** Waste Water

**NO** Direct Steam

**SMALL** Factory Footprint

**Palm Oil Mill Effluent Free Technology-POME Free Technology is a new revolutionary waste water free methodology in the treatment of the Fresh Fruit Bunch(FFB). The process employs biological and physiological effects of natural incubation and pasteurization without any input of steam or free water, thereby producing zero waste water(POME Free). The POME Free Technology provides an alternative solution to the Palm Oil Milling industry to be sustainable and environment-friendly.**

**Key benefits :**

- **Zero waste water (POME Free ) and no POME treatment required**
- **No Biogas plant required**
- **No Direct Steam and Free Water, less water consumption**
- **Small Factory Footprint**
- **Simple process flow, less machinery, less noise pollution**
- **Additional Bi-Product: Pressed Mesocarp Fibre and Dry Filtered Cake**



**CPO**



**PALM KERNEL**



**PALM SHELL**



**EFB**



**DRY  
FILTERED CAKE**



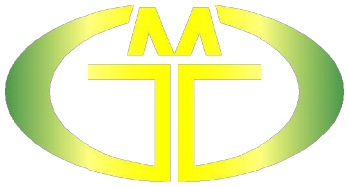
**PRESSED  
MESOCARP FIBRE**



**CALYX**

GREEN MILL SYSTEM SDN. BHD. Company No. 201901029125(1338454-V)  
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TOTALMECH  
ENGINEERING SDN. BHD.

A Subsidiary Company of Merge Jati Group



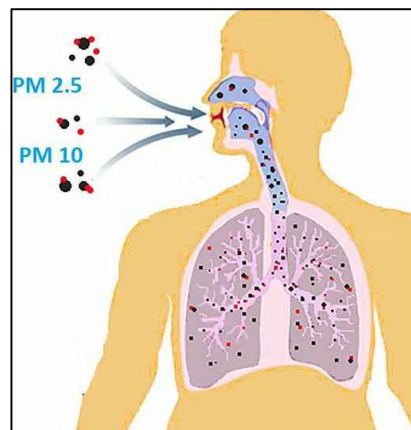
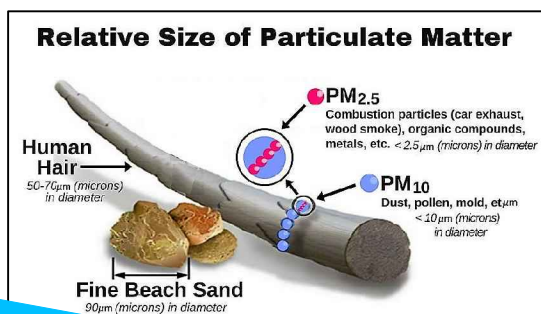
DON'T LET OUR  
FUTURE GO UP IN  
**BLACK SMOKE!!**



we are your solution



Biomass-fired smoke might look like a gas but it's actually an **aerosol**, consists of microscopically tiny particles of soot (unburned carbon) dispersed through hot, rising air. The "smoke" coming out from chimney contain all kinds of different pollutants, including soot (unburned carbon) and ash (fine, dusty residues from burned material), plus polluting gases such as sulfur dioxide and nitrogen oxides.



## High Voltage Pulse Energized Electrostatic Soot-removal Precipitator

has higher efficiency to remove the soot from biomass-fired boiler flue gas, by using corona plasma technique generated from high voltage pulse energizing to excite electric field between electrodes. Thus, it uses lower current (mAmp) to remove the soot.

Guaranteed compliance with  
DOE Clean Air Regulations  
2014, Total PM  
below 150mg/Nm<sup>3</sup>.

FOR MORE  
INFORMATION  
KINDLY CONTACT



**TOTALMECH  
ENGINEERING SDN. BHD.**

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