



ALAM SEKITAR MALAYSIA
SDN BHD®

Alam Sekitar Malaysia Sdn Bhd (ASMA) has been at the forefront of environmental monitoring and consultancy services since 1995 when it was awarded a concession by the Malaysian Government to establish a systematic and comprehensive environmental monitoring network for ambient air and river water quality for the nation and establish the National Environmental Data Centre till April 2017.

Now, ASMA has evolved into a one-stop environmental centre that offers a wide range of services and products and is rapidly advancing towards realising its vision to be the premier total environmental solutions provider.



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ALAM SEKITAR MALAYSIA
SDN BHD®

LRQA
CERTIFIED

ISO 9001 • ISO 14001



UKAS
MANAGEMENT
SYSTEMS
0001

MyHERO® PALM OIL MILL EFFLUENT (POME) TERTIARY TREATMENT SYSTEM

Other Services

- AIR QUALITY MANAGEMENT
- WATER QUALITY MANAGEMENT
- ENVIRONMENTAL MONITORING SERVICES

- DOMESTIC WASTEWATER
- WATER & INDUSTRIAL WASTEWATER
- ENVIRONMENTAL CONSULTANCY

Our Services

ASMA offers comprehensive solutions and services in water and industrial wastewater treatment comprising consultation, planning, management, operations and anthropogenic industrial or commercial activities prior to its release into the environment or its recycle and reuse. We are specialize in the tertiary treatment system for palm oil mill effluent (POME).



The palm oil milling industry produces strong effluent loads which require intensive treatment. The Department of Environment of Malaysia (DOE) has progressively imposing stringent discharge requirements under the Environmental Quality (Prescribed Premises) (Crude Palm Oil Mill) Regulations. Alum based coagulant is commonly in used for POME treatment. However, this will produce a schedule waste sludge which requires additional cost to dispose.



Consistent Compliance

- Excellent performance.
- Guaranteed Effluent Quality.

	PARAMETERS					
	Temperature (°C)	pH	Color	Suspend Solids (mg/l)	BOD ₅ (mg/l)	Oil & Grease (mg/l)
Minimum	29.3	7.69	<10	2	14	<1
Maximum	32.5	8.46	28	26	20	<1
Average	30.6	8.25	14	18	16	<1
DoE New Limit for POME	45	5 to 9	100	200	20	10



Highly Excited Radical Oxidation (HERO)

Ferrous Sulphate (FeSO_4) has been used for industrial waste water treatment. Ferrous sulphate is abundant in Malaysia and at a very competitive price. Study was conducted using ferrous sulphate for POME treatment at all three stages of POME treatment namely primary, secondary and tertiary treatment.



Retro Fitting

- Upgrade or Refurbish existing treatment systems.
- Increasing capacity and efficiency.
- Low power consumption



Modular Systems

- Optimizing treatment processes.
- Dual Processes.
- Smaller Footprint.
- Total area 120m²

