



WASTE MANAGEMENT SYSTEM

OILY WASTE RECOVERY

Waste oils collected and received from clients are normally in the form of used oil from workshops, vessels, manufacturing plants, cooking oil from restaurants and other sources. CIC's Distillation Systems is designed to recover waste oil as Reprocessed Industrial Fuel (RIF). At CIC Waste Management Treatment Plant, waste oils are treated and separated to form light oils, heavy oils and recovered water. The light oils are pumped out and reused to fuel the furnace in the system. The heavy oils are separated, dehydrated, analysed and commercialised back to the industry. The recovered water is forwarded to the wastewater treatment facilities for further processing before discharge.

Recovery Solution

- CIC's oil recovery plant is designed to treat and recover waste oils from various industries.
- CIC's Distillation System will recover waste oils from manufacturing plants, workshops and other sources as Reprocessed Industrial Fuel (RIF).
- Light oils are pumped out and reused to fuel the furnace in the system.
- Heavy oils are dehydrated, analysed and commercialised back to the industry as RIF.
- Wastewater is forwarded to our waste water treatment for further processing before discharge.

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Distillation (Case Study) Workshop Waste Oil Collection.

Workshops' waste oil collection	<p>CIC Environmental Services Sdn Bhd Weekly Schedule Arrangement in Brunei Darussalam:</p> <ul style="list-style-type: none"> → For Brunei and Muara / Tutong Districts is on every Tuesday. → For Kuala Belait Districts is on every Thursday. <p>Most vehicle repair workshops generate waste oil during the normal maintenance of motorized vehicle or machinery.</p>
Types of waste oils	Commonly came from the engine oil, motor oil, lubricant oil and others.
Containments	Majority of the workshops stored their waste oil in drums, IBC or a tank for some.
Challenges	<ul style="list-style-type: none"> → Workshop clients cannot store their waste oil in a longer period due to the limitation of storage capacity of their containments otherwise it could become sludge. → Most significantly, they cannot throw the waste oil everywhere as they please because they need to follow JASTRe compliance and procedures.
Solutions	<p>Decanting activity:</p> <ul style="list-style-type: none"> → Our 14m³ Vacuum Tanker (VT) will be going to collect the waste oil out of the drums using a decanting method from each workshop. → Then our VT Driver will bring the collected waste oil to CIC KB Plant for the Distillation process <p>Disposal of waste oil and its containment:</p> <p>Collect using Hiab Truck and bring the waste to CIC KB Plant for Distillation and Drum Processing.</p>
Results	<ul style="list-style-type: none"> → Help the workshop to dispose their waste oil and contaminated solid waste appropriately. → Minimize the environmental pollution. → Supporting them by not charging the transportation cost and set a special price for each of our workshop clients.
Fact	JASTRe – Jabatan Alam Sekitar Taman dan Rekreasi, Department of Environment, Parks and Recreation of Brunei Darussalam. Established in 1993 and JASTRe handle matters pertaining to waste management, environmental conservation and management, management of landscape and recreational areas and also environmental cooperation.

Waste cooking oil collection	Restaurant, foods factory or producer for example like Fratini's Restaurant and SPHI Foods and a 3rd Party like Brunei Garisson and Seri Kandi.
Types of waste oils	Palm oil, corn oil, sunflower oil etc.
Containments	Bottles, Gallons or Tin cans.
Challenges	<p>The quantity is quite minimum in comparison with the vehicle waste oil.</p> <p>Existence of solid waste : Foods residue and bones</p> <p>Lack of awareness and concern on how to dispose the cooking oil accordingly.</p>
Solutions	<p>Decanting activity using filter:</p> <ul style="list-style-type: none"> → To separate the solid waste and the cooking oil waste. → Our 14m³ Vacuum Tanker (VT) will be going to collect the waste oil out of the drums using a decanting method but can only be in one trip. → Using Hilux or Hiab Truck depending on the quantity to be collected if the client request to dispose the contaminated containments as well. → Sent to distillation CIC KB Plant.
Results	<ul style="list-style-type: none"> → Able to minimize the environmental pollution. → Allow to decrease the situation of drainage system blockage. → Help to create awareness among the restaurant, foods factory worker by not throwing their waste c cooking directly in the sink or any drainage. → Green Brunei is a youth led platform for environmental sustainability which help to educate and encourage our community to care for our environment and natural resources through their activities. → Initiative : For example, in this case is the last year recycling drive event in which CIC involved by preparing designated storage for the residents to dispose their cooking oil.
Fact	Green Brunei is a social enterprise registered as Helwa's Green Services, which was established in August 2012. It aims to promote environmental sustainability through youth-led initiatives in the fields of education, conservation and advocacy.