

Malaysia Exporters of

Biomass

& Related Services

DIRECTORY



Malaysia External Trade Development Corporation

In Collaboration With



Malaysia Exporters of
Biomass
& Related Services
D I R E C T O R Y



Malaysia External Trade Development Corporation

In Collaboration With



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ISBN 978-983-3196-27-2



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Message from Chief Executive Officer MATRADE



Blessed with fertile land and favourable climate, Malaysia's agriculture industry continues to grow and with it, presents a rich agro-biomass resource. The biomass industry of Malaysia comprises several different industries brought together by the utilisation of renewable organic matters including timber waste, oil palm waste, paddy waste, coconut trunk fibre, sugarcane waste, kenaf fibre and many others.

The palm oil industry of Malaysia is the fourth largest contributor to the country's gross national income, accounting for about 8% or equivalent to RM50 billion annually. The industry is also the largest producer of biomass, with virtually every part of the tree useful in the creation of products ranging from plywood to biofuels.

It is because of the group opportunities in this sector that Malaysia Exporters of Biomass and Related Services Directory is published to serve as a sourcing guide for the foreign buyers. I believe this Directory will be a useful reference business contacts with Malaysian companies offering biomass products and services for the industry.

Thank you.

A handwritten signature in black ink, appearing to read 'Wong Lai Sum'.

DR WONG LAI SUM
Chief Executive Officer
MATRADE

Message from Chief Executive Officer POIC Sabah Sdn Bhd



The packaging of information is vital for a fast growing sector like biomass. It enables players and consumers alike to have a better grasp of the industry, knowing what are available and who are making them available. Such a birds-eye view of the biomass sector helps bring buyers and sellers together, helping in their planning and strategising.

The dynamic potentials of biomass, especially oil palm biomass, are only beginning to be understood and recognised. Malaysia is expected to produce about 100 million tons of oil palm biomass per year by 2020. National initiatives, in partnership with the private sector within and outside the country, aim to optimise the revenue potentials from biomass. These make for exciting times for the biomass sector in Malaysia, more so in Sabah which accounts for a third of national oil palm acreage.

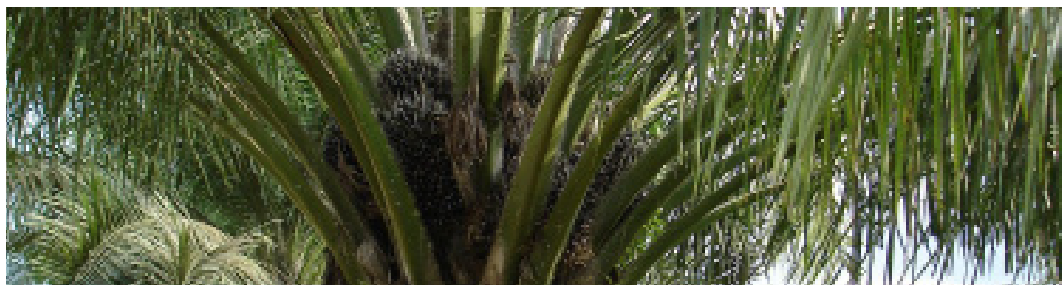
The national ambition is to triple revenue by 2020 from the RM81 billion in 2011. Therefore, efforts such as this directory will have a significant impact in creating awareness and facilitate networking.

Thank you.

A handwritten signature in black ink, appearing to read 'Pang Teck Wai'.

DATUK DR PANG TECK WAI
Chief Executive Officer
POIC Sabah Sdn Bhd

Industry Overview



The agriculture sector in Malaysia generates about 11% of Gross National Income (GNI). In the process of creating this value, a significant amount of biomass is generated every year across a variety of crops, including but not limited to palm oil, rubber and rice.

Within this sector, by far the largest contributor to GNI is the palm oil, contributing about 8% or almost RM50 billion to the national income. The palm oil sector correspondingly generates the largest amount of biomass, estimated at 80 million dry tonnes of 'woody' biomass in 2010. This is expected to increase to about 100 million dry tonnes by 2020, primarily driven by increases in yield. As a result, the National Biomass Strategy 2020 (NBS 2020) was launched in November 2011 with a focus on oil palm biomass as a starting point, which is being extended to include biomass from other sources like forestry, other agricultural by-products and municipal waste.

The vast majority of the oil palm biomass generated today is returned to the field to release its nutrients and replenish the soil. The biomass returned to the field as organic fertiliser plays an important role to ensure the sustainability of fresh fruit bunch (FFB) yields. However

there is also the potential to utilise (portions of) this biomass for a variety of additional higher value uses, including but not limited to the production of wood products, energy pellets, bioenergy, biofuels (i.e. ethanol) and biobased chemicals (i.e. succinic acids and lactic acids). Due care and consideration are made to balance the amount of biomass that is left in the field for its nutrient value versus that utilised for higher value-added uses.

While the opportunities are immense, the different uses have very different risk-return profiles, given the differences in technological maturities, global demand potential and its competitive dynamics. Not surprisingly, the highest-value opportunities – biofuels and biobased chemicals – carry also the highest technology uncertainty and competitive risk.

Malaysia's NBS 2020 promotes the critical importance and significance of having a portfolio approach for Malaysian biomass producers and the nation at large, to ensure there is a combination of short to medium-term investments into immediate opportunities and longer-term investment in higher value-added opportunities for all Malaysian biomass owners.

Industry Overview

A conservative scenario of utilising an additional 20 million tonnes of oil palm biomass by 2020 for higher-value uses has the potential to contribute significantly to the nation's economy. In addition to a significant incremental contribution to GNI of RM30 billion by 2020, the National Biomass Strategy 2020 offers Malaysia a way to meet its renewable energy target, reduce emissions and create about 66,000 incremental jobs. This strategy also offers an opportunity for Malaysia to build several biofuel and biobased chemical downstream clusters to ensure the nation benefits from the downstream value creation potential.

From a supply-side perspective, by 2020 Malaysia's palm oil industry is expected to generate about 100 million dry tonnes of solid biomass. This includes not only the empty fruit bunches (EFB), mesocarp fibres (MF) and palm kernel shells (PKS), but also the oil palm fronds and trunks. Excluded from this figure is palm oil mill effluent (POME). On current course, most of this solid biomass will remain in the plantations as fertiliser, with a small but increasing amount being utilised for bioenergy given the introduction of a renewable energy feed-in-tariff system.

Biomass should not be removed from the field without consideration of its nutrient value and protection to the top-soil. However there is the potential to retain in the field the portion of the biomass that has the highest nutrient value but the lowest downstream value, as represented



by its carbohydrate content, and replace the balance with inorganic substitutes.

Moreover, converting the mostly unused POME into biogas for either powering the mills or selling power into the national grid would contribute towards the renewable energy target of Malaysia – 410 MW of installed biogas capacity by 2030.

This initiative alone would reduce the nation's carbon dioxide (CO₂) emissions by 12% and free up significant biomass for higher value-added uses. Taken in combination, this has the potential to free up 20% - 30% of the available solid biomass for higher value-added uses without affecting palm oil yields. This of course must be an industry led decision of each palm oil mill, based on its long-term commercial and sustainability merits.

Assessing the various costs of mobilising oil palm biomass today – harvesting, collection, pre-processing, substitution and transportation to a downstream hub – on the order of 25 million tonnes of biomass can be mobilised at globally competitive costs, i.e., at a cost of less than RM250 per dry-weight tonne. On current course (i.e., business as usual) approximately 12 million tonnes of solid biomass will likely be utilised for non-fertiliser uses by 2020, primarily

Industry Overview

for wood products and bioenergy. An additional 20 million tonnes could be mobilised for additional uses such as pellets, biofuels and biobased chemical industries. In total, this is approximately 30% of the solid biomass the palm oil industry is expected to generate annually by 2020.

In order to achieve the targets of the NBS 2020, creating various new high-value biomass industries for the industry and the nation, pellets would be a natural point of entry to start mobilising the industry, as the technology is reasonably mature, the cost of developing infrastructure relatively low (i.e., RM30 - 40 million per plant with a capacity of 100,000 tonnes) and the payback of 3 - 5 years relatively



quick, coincidentally long-term contracts for pellets also range from 3 - 5 years. Hence, while pellets enable profitable mobilisation today, they also act as a buffer. Should higher value biobased chemicals materialise earlier or should Malaysia capture a bigger share of the global biobased chemicals market, biomass can be diverted from pellets to capture these higher value opportunities.

Business-as-usual uses of biomass for wood products, bioenergy and pellets provide an opportunity to generate value from biomass today, with the potential to generate revenue of RM200 - 1,000 per dry tonne of solid biomass input. In parallel, resources should be expended to invest in longer-term projects around biofuels and biobased chemicals. These have higher risk and are expected to reach commercial scale only in the 2015 - 2020 timeframe, however have the potential for significantly higher value creation – on the order of RM1,000 - 3,000 of revenue per dry tonne of solid biomass input. A year since the launch of NBS 2020, technology for biobased chemicals has seen significant acceleration with the first commercial scale biobased chemical plants completed late 2012 and operational in 2013, making the opportunity a closer reality for Malaysia.

The biggest long-term opportunity for Malaysia remains in the space of biobased chemicals, with a forecasted global market size of RM110 - 175 billion by 2020. A critical success factor will be the mobilisation of biomass, both with regards to volumes, logistics – how to move it efficiently from plantations to centres of production – and cost – to ensure globally competitive costs compared to other biomass. While larger plantations will be able to participate in this opportunity given their individual scale, there is still merit in the use of partnerships to reduce risk. And it will be critical to create best-practice partnership structures to enable

Industry Overview



smaller plantations and small holders to participate.

As the world's second largest producer and largest exporter of palm oil, this is a natural opportunity for Malaysia to capture, with a significant prize. However achieving full potential will require significant coordination and cooperation among multiple stakeholders. The development of partnerships and partnership structures between plantation and mill owners is critical to mobilise the biomass, and initiatives under the Palm Oil National Key Economic Area (NKEA) are being used to accelerate this opportunity.

A new business opportunity has already been defined for pelletisation capacity. The launch of an industry consortium Oil Palm Biomass Centre (OPBC) to catalyse development and scaling up of conversion technologies will accelerate the research and development complementing the growth of the biomass industry. In addition, an existing Entry Point Project (EPP) has been expanded in scope for direct joint-ventures (JVs) between biomass owners and downstream technology or chemical companies.

Since the launch of NBS 2020 in 2011, initiatives such as MYBiomass (a joint-venture (JV) between Sime Darby, Federal Land Development Authority (FELDA) and Malaysian Industry - Government Group for High Technology (MiGHT) to aggregate their biomass), the first batch of commercial scale biomass pelletisation plants, completion of multiple government - industry led international roadshows to showcase commercialisation opportunities globally, visits from international downstream chemical companies to Malaysian biomass owners, joint-venture (JV) cluster workshops and numerous invitations to speak at international conferences are all testaments of the government's focus in creating excitement and opportunities for the industry through continual interaction with the industry and academia. With acceleration of technology in higher value uses and constant support and facilitation from the government to industries, NBS 2020 and the resulting 1Malaysia Biomass Alternative Strategy Initiative (1MBAS) taskforce have become a platform to ensure that our nation's interest in creating incremental GNI, higher value industries and high value jobs from biomass becomes a reality.

Source: Agensi Inovasi Malaysia



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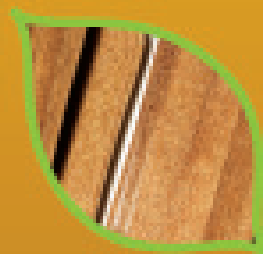
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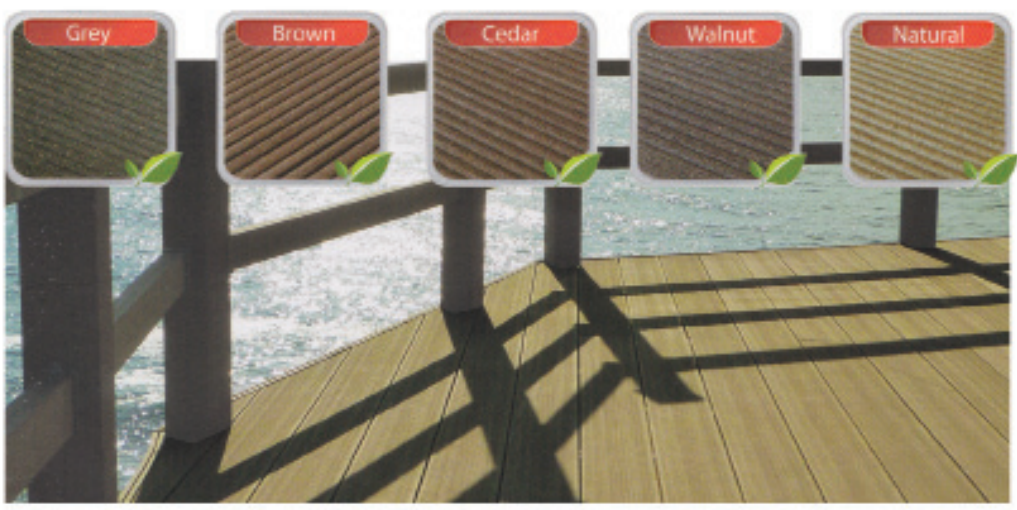
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COMPANY PROFILES





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DETAILS

Year Established
2011

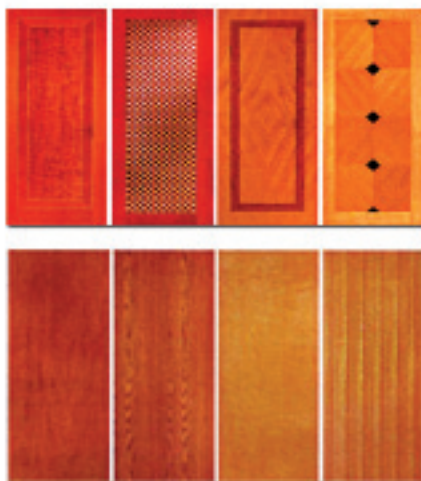
Type of Business
Manufacturer, Trader

Export Markets
Germany, New Zealand, Singapore, South Korea,
Spain, United States of America

Type of Biomass
Rice Husk

Product
Decking

Brand Name
ENWOOD



CONTACT

Address

PLO 202
Segamat Industrial Area II
85000 Segamat
Johor
Malaysia

Tel

607-9279933

Fax

607-9270033

Email

admin@agtp.com.my

Website

www.evergreengroup.com.my

Contact Person

Mr Lai Kim Hwa
Senior Sales & Marketing
Executive

DETAILS

Year Established

2002

Type of Business

Manufacturer

Certification

ISO 9001:2008

Export Markets

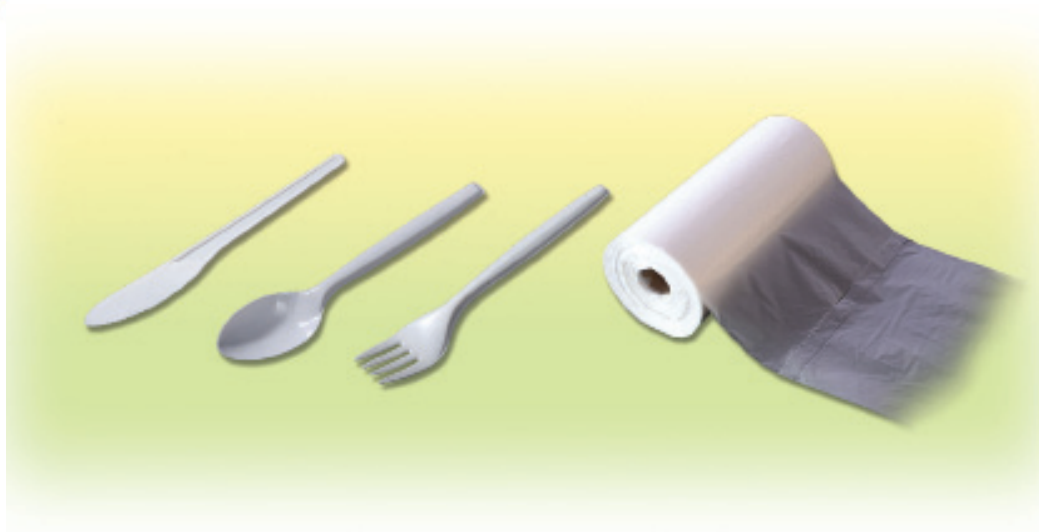
Bangladesh, China, India, Indonesia, Philippines, Vietnam

Type of Biomass

Forest Waste Materials - Sawdust, Rubber Tree, Rubber Tree Bark

Product

Particleboard



CONTACT

Address

67-2, Jalan 3/76D
Desa Pandan
55100 Kuala Lumpur
Malaysia

Tel

603-92820708 / 30708

Fax

603-92002561

Contact Person

Mr Weng Chen
Business Development Manager
weng6603@gmail.com

DETAILS

Year Established

1997

Type of Business

Trader

Type of Biomass

Oxo-Biodegradable Resin

Products

Disposable Cutlery, Food Container, Plastic Bag

Brand Name

BGREEN



CONTACT

Address

8C-01, Jalan Tun Dr Awang
11900 Bayan Lepas
Penang
Malaysia

Tel

6012-4086194

Email

bio.oasistrading@gmail.com

Website

www.bio-oasistrading.com

Contact Person

Mrs Mazlina Md Ismail
Director

DETAILS

Year Established

2009

Type of Business

Trader

Certifications

Halal, DIN EN 13432 (European Standards)

Export Markets

Australia, India, Saudi Arabia, Singapore

Type of Biomass

Sugarcane Baggase

Products

Tableware Products - Plate, Cup, Bowl, Dinner Box, Tray



CONTACT

Address

Lot 10797, Block 59
Muara Tuang Land District
94300 Kota Samarahan
Sarawak
Malaysia

Tel

6082-372031

Fax

6082-456060

Email

biowoodresources@gmail.com

Website

www.biowoodresources.weebly.com

Contact Person

Mr Charles Chua Tan Teck
Managing Director

DETAILS

Year Established

2010

Type of Business

Manufacturer

Export Markets

Ireland, United Kingdom

Type of Biomass

Sawdust, Woodchip

Product

Briquette



CONTACT

Address

94A, Jalan Jejaka
Taman Maluri, Cheras
55100 Kuala Lumpur
Malaysia

Tel

603-92854466

Fax

603-92857668

Email

bioen@buildersbiomass.com

Website

www.buildersbiomass.com

Contact Person

Mr Ooi Diang Liang
General Manager

DETAILS

Year Established

2010

Type of Business

Manufacturer, Service & Technology Provider

Certifications

ISO 9001:2008, ISO 14001:2004

Export Markets

China, Japan, Poland, South Korea, United States
of America

Type of Biomass

Empty Fruit Bunch (EFB), Sawdust

Products

Energy Solid Biofuel Pellet, Animal Bedding Pellet,
Bio Fertiliser

Services

Technology Processing Facility - Operations,
Maintenance & Licensing

Brand Names

BIOEN, BIOZZZ, BIOFAT



CONTACT

Address

16, Jalan PJU 1A/10
Ara Damansara
46050 Petaling Jaya
Selangor
Malaysia

Tel

603-78474480

Fax

603-78474821

Email

cht_vigormat@yahoo.com

Contact Person

Mr Leong Kwok Wing
General Manager & Technical
Director

DETAILS

Year Established

2000

Type of Business

Manufacturer, Services & Technology Provider

Export Markets

Australia, Brunei Darussalam, Hong Kong,
Singapore, Taiwan, Thailand

Type of Biomass

Palm Oil Fibre, Coconut Fibre

Products

Erosion Control Mattress and Log

Services

Consultation on Erosion & Sediment Control and
Water Quality Management

Brand Names

VIGORMAT, VIGORLOK



CONTACT

Address

Lot 2604, Block 32
Kemena Industrial Estate
97000 Bintulu
Sarawak
Malaysia

Tel

6086-316700 / 338587

Fax

6086-311800 / 338572

Email

cb_gmd@cipta.com.my
ciptajh@streamyx.com

Website

www.cipta.com.my

Contact Person

Mr Hii Poh Bing
Managing Director

DETAILS

Year Established

1996

Type of Business

Manufacturer

Export Markets

Australia, Belgium, Canada, Cyprus, France, Germany, Greece, Japan, New Zealand, South Korea, United States of America

Type of Biomass

Wood and Palm Waste

Products

Eco-Wood Briquette, Sawdust Briquette Charcoal, Pillow Shaped Wood Based Charcoal Briquette, Wood Charcoal, Biomass Pellet

Brand Name

BBQ KING



CONTACT

Address

2, Lorong Sultan Muhammad
25D Taman IKS
Bandar Sultan Sulaiman
42000 Port Klang
Selangor
Malaysia

Tel

603-31760829

Fax

603-31760830

Email

classicenrichment@yahoo.com

Contact Person

Mr Roslan Saat
Managing Director

DETAILS

Year Established

2010

Type of Business

Manufacturer

Type of Biomass

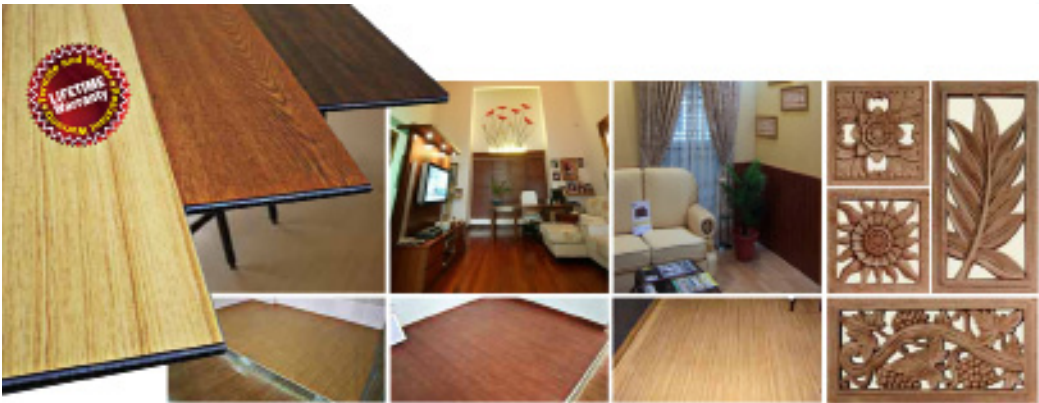
Rice Husk

Products

Biodegradable Products - Plastic Bag, Garbage
Bag, Apron, Rain Coat

Brand Name

PADDYPLAST



CONTACT

Address

5, Lorong Perda Timur 4
Bandar Perda
14000 Bukit Mertajam
Penang
Malaysia

Tel

604-5303052 / 3050 / 3061

Fax

604-5308050

Email

info@ct-wood.com

Website

www.ct-wood.com

Contact Persons

Mr Alfred Fok
Managing Director

Ms Evelyn Tee
Export Sales Executive

DETAILS

Year Established

2003

Type of Business

Manufacturer, Trader

Export Markets

Bangladesh, India, Sri Lanka

Type of Biomass

Rice Husk

Products

Wood Moulding, Furniture Components, Ceiling & Wall Panel



CONTACT

Address

4, Jalan BP 5/8
Bandar Bukit Puchong
47100 Puchong
Selangor
Malaysia

Tel

603-80600392 / 604-5303052

Fax

603-80600243 / 604-5303061

Email

info@ct-wood.com
info@easywood.com.my

Website

www.easywood.com.my

Contact Person

Mr Alfred Fok
Managing Director

DETAILS

Year Established

2003

Type of Business

Manufacturer

Certifications

Green Label, TUV, SGS

Export Markets

Bahrain, Brunei Darussalam, Cyprus, France, India, Indonesia, Iran, Italy, Philippines, Qatar, Singapore, South Korea, Ukraine, Vietnam

Type of Biomass

Composition of Pure Polymer Resin and Bio-Waste (Rice Husk)

Products

Outdoor Decking, Ceiling Panel, Wall Panel, Flooring

Brand Name

EAZY WOOD



CONTACT

Address

183-1, Jalan Lancang
Taman Sri Bahtera, Cheras
56100 Kuala Lumpur
Malaysia

Tel

603-91390003 / 4

Fax

603-91343793

Email

defrazer@yahoo.com

Website

www.defrazer.com

Contact Persons

Ms Celine Ng
Chief Executive Officer

Ms Hannah Ng
Marketing Manager

DETAILS

Year Established

2008

Type of Business

Manufacturer

Export Markets

Iran, Philippines, Singapore, Thailand

Type of Biomass

Recycle Paper

Product

Pallet

Brand Name

GREEN PALLET



CONTACT

Address

26-1, Jalan Equine 9B
Taman Equine
Bandar Putra Permai
43300 Seri Kembangan
Selangor
Malaysia

Tel

603-89408771

Fax

603-89408772

Email

inquiry@detikaturan.com

Website

www.detikaturan.com

Contact Person

Mr Md Arfizal Md Ariffin
Director

DETAILS

Year Established

2006

Type of Business

Manufacturer, Service & Technology Provider

Export Markets

China, South Korea

Type of Biomass

Empty Fruit Bunch (EFB), Coconut Trunk, Paddy Husk

Product

Solid Fuel Pellet

Services

Design & Build Complete System of Biomass

Brand Name

DETIK ATURAN



CONTACT

Address

Lot 85, Jalan Permata 2/3
Arab-Malaysian Industrial Park
71800 Nilai
Negeri Sembilan
Malaysia

Tel

606-7993121 / 3880

Fax

606-7998833

Email

info@diyoufibre.com

Contact Person

Mr Lee Kang Bun
Assistant General Manager
kb_lee@diyoufibre.com

DETAILS

Year Established

1998

Type of Business

Manufacturer

Export Markets

Germany, Poland, United States of America

Type of Biomass

Rice Husk, Palm Kernel Shell (PKS)

Product

Energy Pellet



CONTACT

Address

Level 39, Menara Citibank
Jalan Ampang
50450 Kuala Lumpur
Malaysia

Tel

606-7993000

Fax

606-7993888

Website

www.dongwha.com.my

Email

marketing_centre@donghwa-mh.com

Contact Person

Mr Robert Yeoh
Marketing Manager
robert@dongwha-mh.com

DETAILS

Year Established

1994

Type of Business

Manufacturer, Trader

Certifications

ISO 9001:2008, CARB Certification

Export Markets

Afghanistan, Bahrain, Bangladesh, China, Egypt, Hong Kong, India, Indonesia, Iran, Jordan, Kuwait, Laos, Lebanon, Mauritius, Pakistan, Philippines, Qatar, Saudi Arabia, Singapore, South Africa, Sri Lanka, Syria, Taiwan, United Arab Emirates, Vietnam

Type of Biomass

Wood Waste

Product

Medium Density Fibreboard Products

Brand Name

DONGWHA



CONTACT

Address

6716, Pengkalan Tambang
Permatang Pasir
13500 Bukit Mertajam
Penang
Malaysia

Tel

604-3901971 / 6017-4642364

Fax

604-3978221

Email

mamagani1@yahoo.com

Contact Person

Dr Rahmatullah Hussain
Director

DETAILS

Year Established

1999

Type of Business

Manufacturer, Trader

Type of Biomass

Kenaf Fibre

Products

Mattress, Table Top Panel

Brand Name

DR. MAT



CONTACT

Address

Lot 6, Jalan PBR 33
Kawasan Perindustrian Bukit
Rambai
75250 Melaka
Malaysia

Tel

6016-7555224

Fax

606-5520323

Email

drptsb@hotmail.com

Website

www.drpts.webs.com

Contact Person

Mr Damisetti Rambabu
Managing Director

DETAILS

Year Established

2006

Type of Business

Manufacturer

Export Markets

China, India, Italy, Saudi Arabia, Taiwan, Thailand,
United Arab Emirates

Type of Biomass

Coconut Shell, Palm Kernel Shell (PKS), Sawdust,
Rice Husk, Cocoa Fibre, Coconut Fibre

Products

Renewable Green Energy Products - Powder,
Granular, Pellet and Briquette

Brand Name

DRPTS



CONTACT

Address

28, 1st Floor
Persiaran Mahsuri 1/2
Sunway Tunas
11900 Bayan Lepas
Penang
Malaysia

Tel

6016-5599263

Fax

605-6414263

Website

www.ashfertilizer.com

Contact Person

Mr Chuah Chong Wooi
General Manager
cwchuah@dstec.com.my

DETAILS

Year Established

2011

Type of Business

Manufacturer, Trader

Type of Biomass

Palm Ash, Bio Char, Bunch Ash

Products

Ash Fertiliser, Ash Raw Materials - Bunch Ash,
Bio Char, Palm Ash



CONTACT

Address

A 3-10, Plaza TTDI
Jalan Wan Kadir 3
Taman Tun Dr Ismail
60000 Kuala Lumpur
Malaysia

Tel

603-77100085 / 77315909
6012-2863181 / 3076363

Fax

603-77101086

Email

duralitegreen@gmail.com

Website

www.duralite.com
www.duralitegreen.com

Contact Person

Ms Farah Abdullah
Director

DETAILS

Year Established

2000

Type of Business

Manufacturer

Certifications

BS 1105 (England), DIN 1101 (Germany)

Export Markets

Hong Kong, Indonesia, South Korea, Sri Lanka

Type of Biomass

Wood Fibre

Product

Wood Wool Cement Board Products

Brand Name

DURALITE



CONTACT

Address

Lot 7A, Lorong Bunga Tanjung 1/2
Senawang Industrial Park
70450 Seremban
Negeri Sembilan
Malaysia

Tel

606-6777768 / 9878
606-6798898

Fax

606-6777769

Website

www.ecopackinternational.com

Contact Person

Mr Amir Alzahari Mohamed
Managing Director
amir@ecopackinternational.com
amiralzahari@gmail.com

DETAILS

Year Established

2006

Type of Business

Manufacturer

Certifications

ISO 9000:2008, British Retail Consortium (BRC),
DIN EN13432 (European Standards), FDA

Export Markets

Italy, Germany, Poland, United Kingdom, United
States of America

Type of Biomass

Oil Palm Waste

Products

Fruit Tray, Vegetable Tray, Surgical Tray

Brand Name

ECO-PACK



CONTACT

Address

Suite 11-03, 11th Floor, Block A
Damansara Intan
1, Jalan SS 20/27
47400 Petaling Jaya
Selangor
Malaysia

Tel

603-71188668

Fax

603-71182943

Website

www.ecofibre.com.my

Contact Person

Ms Yee Bee Leng
Marketing Executive
beelengyee@ecofuture.com.my

DETAILS

Year Established

1998

Type of Business

Manufacturer

Type of Biomass

Oil Palm Fibre

Products

Palm Fibre, Palm Fibre Mat



CONTACT

Address

Lot 8, Jalan Tembaga SD5/2A
Bandar Sri Damansara
52200 Kuala Lumpur
Malaysia

Tel

603-62723232

Fax

603-62758069

Email

info@enmarkcontrol.com

Website

www.enmarkcontrol.com

Contact Person

Mr S K Yong
Manager

DETAILS

Year Established

1987

Type of Business

Manufacturer, Service & Technology Provider

Export Markets

Australia, Indonesia, Papua New Guinea, Thailand,
United States of America

Products

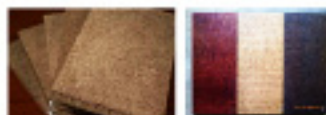
Airless Dryer, Pellet Machine, Briquette Machine,
Crusher

Services

Palm Fibre Airless Drying

Brand Name

ENMARK



CONTACT

Address

1A, Blok MARA
Jalan Puchong Batu 13 ½
47100 Puchong
Selangor
Malaysia

Tel

6019-2142343

Fax

603-80623670

Email

fazasolution@gmail.com

Website

www.oilpalmproducts.com

Contact Person

Mr Khairil Faizi Mohd Sidek
Director

DETAILS

Year Established

2011

Type of Business

Manufacturer, Trader, Service Provider

Certification

CE Marking (Flooring)

Type of Biomass

Oil Palm Waste, Paddy

Products

Palm Pellet, Briquette, Pulp Paper, Plywood, Medium Density Fibreboard, Lumber, Animal Feed, Flooring, Furniture, Vase and Carving, Fibre, Fertiliser, Oil Palm Frond (OPF), Oil Palm Trunk (OPT), Empty Fruit Bunch (EFB), Palm Kernel Shell (PKS), Palm Kernel Cake (PKC), Palm Kernel Expeller, Ash, Rice Straw Bale

Services

Consultancy and Engineering Design to Setup Palm Pulp and Paper Facilities



CONTACT

Address

35, Jalan 2
Kawasan Perusahaan Bandar
Baru Salak Tinggi
43900 Sepang
Selangor
Malaysia

Tel

603-87066288 / 6388

Fax

603-87066488

Website

www.finopallet.com

Contact Person

Mr Richard S H Tan
Managing Director
richard@finopallet.com

DETAILS

Year Established

2005

Type of Business

Manufacturer

Certification

ROHS

Export Markets

Austria, China, Japan, Nigeria, United Kingdom,
United States of America

Type of Biomass

Industrial Recycle Paper / Fibre

Products

Pallet, Crate

Brand Names

FINOPALLET, FINOCRATE



CONTACT

Address

Menara KLH Business Centre
2, Jalan Kasipillai
Off Jalan Ipoh
51200 Kuala Lumpur
MALAYSIA

Tel

603-23003936 / 63

Fax

603-23003933

Email

infopower@garisanetika.com

Website

www.garisanetika.com

Contact Person

Mr K Raghuram
Managing Director

DETAILS

Year Established

1996

Type of Business

Manufacturer, Trader, Service & Technology
Provider

Certification

TUV NORD ISO-9002

Export Markets

Bangladesh, Indonesia, Singapore

Products

Biomass Power Plant

Services

Consultancy Services in Biomass Power Plants



CONTACT

Address

Wisma Zelan
Suite 01.12 B, 1st Floor
1, Jalan Tasik Permaisuri 2
Bandar Tun Razak, Cheras
56000 Kuala Lumpur
Malaysia

Tel

603-91721888

Fax

603-91712112

Email

sales@ggs.my

Website

www.ggs.my

Contact Person

Mr Albert Law
Business Development Manager

DETAILS

Year Established

2008

Type of Business

Manufacturer, Trader, Service & Technology
Provider

Export Markets

China, India, Japan, South Korea, Taiwan, United
Kingdom, United States of America

Type of Biomass

Empty Fruit Bunch (EFB), Palm Kernel Shell (PKS),
Woodchip, Sawdust

Products

Dried Long Palm Fibre, Palm Bio-Briquette, Palm
Pellet, Palm Kernel Shell (PKS), Wood Pellet,
Sawdust Pellet

Services

Technology Services on Setting Up Plant

Brand Name

GGS



CONTACT

Address

Suite 18, E111
Phileo Damansara 1
9, Jalan 15/11 Off Damansara
46530 Damansara
Selangor
Malaysia

Tel

603-74935162

Fax

603-74935100

Email

globalresources2008@yahoo.com

Contact Person

Mr Patrick Chan
Managing Director

DETAILS

Year Established

2008

Type of Business

Trader

Export Markets

China, Japan, South Korea, Taiwan

Type of Biomass

Oil Palm Fibre, Palm Kernel Shell (PKS), Coconut Shell, Wood Waste, Mesocarp Fibre

Products

Raw Materials - Oil Palm Fibre, Palm Kernel Shell (PKS), Coconut Shell, Wood Pellet, Mesocarp Fibre



CONTACT

Address

Lot 11928, Jalan Kancil 3 & 4
Taman Industri Kancil
36400 Hutan Melintang
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Malaysia

Tel

605-6416263

Fax

605-6414263

Website

www.hoongchan.com

Contact Person

Mr Chuah Chong Kim
General Manager
ckchuah@hoongchan.com

DETAILS

Year Established

1999

Type of Business

Trader

Export Markets

China, South Korea

Type of Biomass

Palm Kernel Shell (PKS), Palm Fibre

Products

Raw Materials - Palm Kernel Shell (PKS),
Palm Fibre



CONTACT

Address

Lot 56-B
Air Keroh Industrial Estate
Jalan Usaha 10
75450 Air Keroh
Melaka
Malaysia

Tel

606-2322588 / 87

Fax

606-2322586

Email

househg@pd.jaring.my

Website

www.housegoods.com

Contact Person

Mr Lin Chen Chih
Director

DETAILS

Year Established

1965

Type of Business

Manufacturer

Export Markets

Algeria, Belgium, Cyprus, Finland, Germany, Greece, Indonesia, Iran, Japan, Kuwait, Poland, South Korea, Syria, Taiwan, Thailand, The Netherlands, Tunisia, Turkey, United Arab Emirates, United Kingdom, Uruguay

Type of Biomass

Palm Wood

Products

Knockdown Furniture, Tableware Products - Tray

Brand Name

HOUSE GOODS



CONTACT

Address

Blok C-1-7, Jalan Dataran SD1
Bandar Sri Damansara
52200 Kuala Lumpur
Malaysia

Tel

603-62754188

Fax

603-62763191

Website

www.irmb.com.my

Contact Person

Mr Zulkarnain Mustafa
General Manager
zulirm@gmail.com

DETAILS

Year Established

2000

Type of Business

Manufacturer

Certifications

MS ISO 9002:1994, TUV-SUD Singapore

Export Markets

Germany, Japan, Singapore, South Korea, The Netherlands

Type of Biomass

Waste Fibre from Bamboo, Wood Flour, Empty Fruit Bunch (EFB), Rice Husk

Products

Wood Plastic Composite Products - Flooring, Skirting, Decking, Wall Panel, Ceiling Panel, Fencing

Brand Name

IRM-WPC



CONTACT

Address

18, Lebuhr Perusahaan 1
IGB Industrial Park
31200 Ipoh
Perak
Malaysia

Tel

605-2913840 / 41

Fax

605-2913842

Email

kawan@kawanengineering.com.my

Website

www.kawanengineering.com.my

Contact Person

Ir Lim Thou Lai
General Manager

DETAILS

Year Established

1996

Type of Business

Manufacturer, Service & Technology Provider

Certifications

ISO 9001:2008, ASME 'U', 'H' & 'S', 'NB' Mark,
DOSH, MOF, CIDB 'GT', PKK Class A

Export Markets

China, Germany, Hong Kong, Indonesia,
Philippines, Saudi Arabia, Singapore, Thailand,
Vietnam

Product

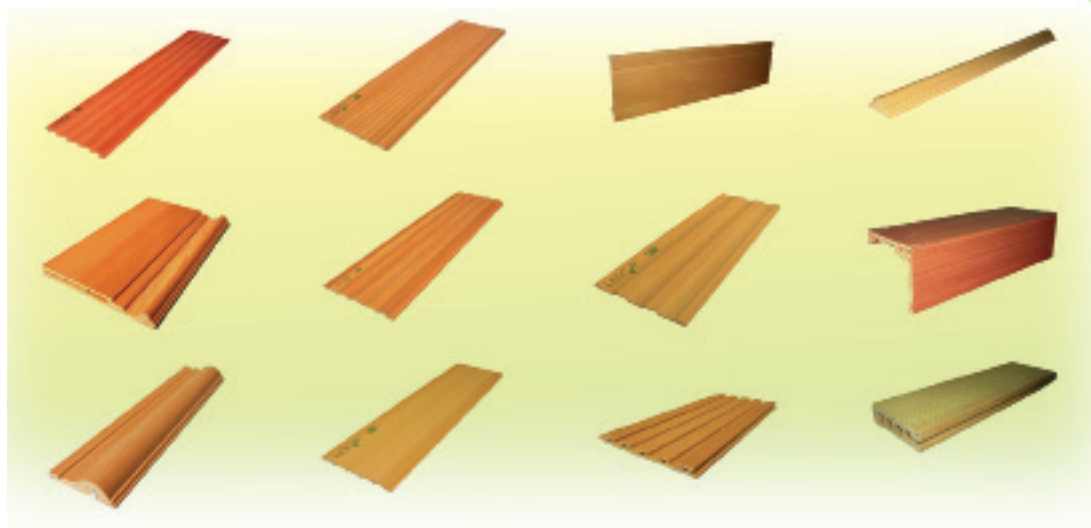
Empty Fruit Bunch (EFB) Dryer

Services

Design, Fabrication and Installation of Machinery

Brand Name

KAWAN



CONTACT

Address

AL 59, Block C
Kg Baru Sg Buloh
47000 Sg Buloh
Selangor
Malaysia

Tel

603-61561013

Fax

603-61412760

Email

lescomal@tm.net.my

Website

www.greenwood.com.my

Contact Person

Mr William Loh
Director

DETAILS

Year Established

2006

Type of Business

Manufacturer

Export Markets

Australia, Singapore, Vietnam

Type of Biomass

Wood Dust

Products

Wood Plastic Composite Products - Wall Panel,
Ceiling Panel, Blind, Skirting, Decking

Brand Name

GREENWOOD



CONTACT

Address

Lot 3
Jalan Peguam Satu 1 U1/25A
Section U1
Hicom-Glenmarie Industrial Park
40150 Shah Alam
Selangor
Malaysia

Tel

603-78808988 / 9863

Fax

603-78806871

Email

enquiry@maribumi.com

Website

www.maribumistarchtech.com

Contact Person

Mr Charles Jackson EA
Project Development Manager
charles@maribumi.com

DETAILS

Year Established

2009

Type of Business

Manufacturer

Certification

ISO 9001:2008 (Quality System Management)

Export Markets

Australia, New Zealand

Type of Biomass

Starch and Tapioca Root

Products

Biodegradeable Resin & Bag

Brand Name

ZERO PLASTIC



CONTACT

Address

Wisma Master Jaya
20, Jalan Taming 3
Taming Jaya Industrial Park
43300 Seri Kembangan
Selangor
Malaysia

Tel

603-89626233

Fax

603-89626211

Email

info@masterjaya.com.my

Website

www.masterjaya.com.my

Contact Persons

Ir A.K. Woo, Managing Director

Ms Jocelyn Wee, General Manager

Ms Jenn Woo, Design Manager

DETAILS

Year Established

1983

Type of Business

Manufacturer, Service & Technology Provider

Certification

ISO 9001:2008

Export Markets

Bangladesh, Indonesia, Singapore, South Africa,
Thailand, Vietnam

Products

Air Pollution Control Equipment & System for
Biomass

Services

Design, Manufacture, Install, Test & Commissioning
Spare Parts & Services, Upgrading / Revamping of
the Existing System

Brand Name

AIRBOSS



CONTACT

Address

47A, Jalan Anggerik Vanilla T
Seksyen 31/T
Kota Kemuning
40460 Shah Alam
Selangor
Malaysia

Tel

603-51216597

Fax

603-51215941

Email

mspalm009@gmail.com

Contact Person

Mr Joe Ooi
Marketing Manager

DETAILS

Year Established

2009

Type of Business

Trader

Export Markets

China, Poland, South Korea, Vietnam

Type of Biomass

Palm Kernel Shell (PKS), Oil Palm Fibre, Rice Husk

Products

Raw Materials - Palm Kernel Shell (PKS), Oil Palm
Fibre, Rice Husk



CONTACT

Address

45, Jalan PJU 10/10E
Damansara Damai
47830 Petaling Jaya
Malaysia

Tel

6012-3147533

Fax

603-61418752

Contact Person

Mr Steven Neoh
General Manager
steven5533@gmail.com

DETAILS

Year Established

2009

Type of Business

Trader

Export Market

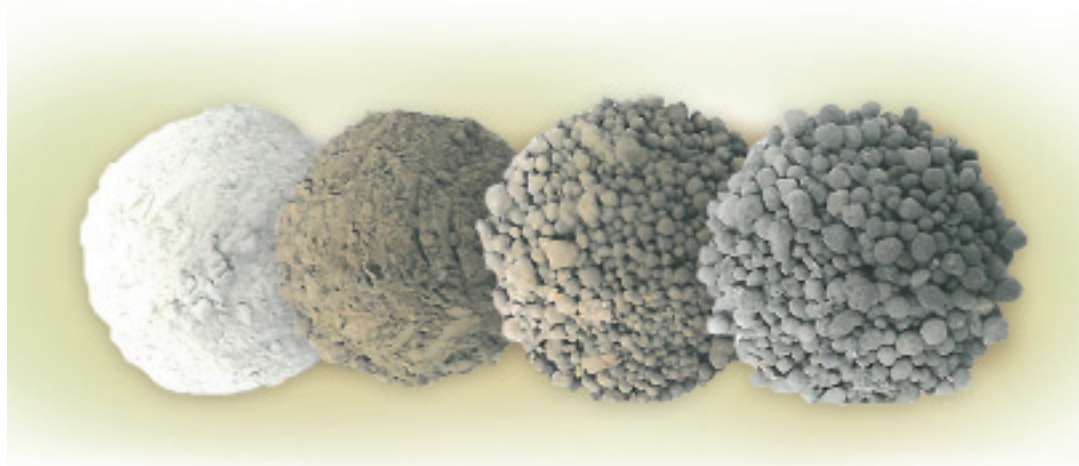
China

Type of Biomass

Palm Oil Fibre, Coconut Fibre

Products

Raw Materials - Palm Oil Fibre, Coconut Fibre



CONTACT

Address

Lot 1384
Kawasan Perindustrian Fasa 1
81440 Bandar Tenggara
Johor
Malaysia

Tel

607-8961285

Fax

607-8961342

Website

www.microwell.com.my

Contact Persons

Mr Nasaruddin Abdullah
Chief Technology Officer
nasa6642@yahoo.com

Mr Khairuddin Salleho
General Manager

DETAILS

Year Established

2004

Type of Business

Trader, Service & Technology Provider

Type of Biomass

Oil Palm Residues

Products

Bio Fertiliser, Controlled-Release Fertiliser

Services

Bio Fertiliser, Crop Protection and Biological Control, Soil Treatment, Sewage / POME Treatment

Brand Names

GROAGRO1, GROAGRO2, GROAGRO3,
GROAGRO4



CONTACT

Address

Lot 54A, Section 92A, Batu 3 ½
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57100 Kuala Lumpur
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Tel

603-79846668 / 79801732

Fax

603-79803253

Email

mst@mstgypm.com

Website

www.mstgypm.com

Contact Person

Mr Kea
Marketing Manager

DETAILS

Year Established

1999

Type of Business

Manufacturer, Trader

Certification

SEC Green Label (043-031)

Export Markets

Germany, Japan, Singapore, South Korea, Vietnam

Type of Biomass

Rice Husk

Products

Wood Plastic Composite Products - Decking,
Panelling, Staircase, Landscaping Products

Brand Name

EASEWOOD



CONTACT

Address

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68100 Batu Caves
Selangor
Malaysia

Tel

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Fax

603-61897559

Email

enquiry@fibromat.com.my

Website

www.fibromat.com.my

Contact Persons

Mr Mohd Tarmim Sidek
Chairman

Mr Danny Ng Kian Boon
Chief Executive Officer

DETAILS

Year Established

1999

Type of Business

Manufacturer, Service & Technology Provider

Certification

ISO 9001:2008

Export Markets

Brunei Darussalam, China, New Zealand,
Singapore, South Korea, Taiwan

Type of Biomass

Paddy Straw, Coir Fibre, Palm Fibre

Products

Bio-Engineering & Erosion Control Products
(Mattress)

Services

Bio-Engineering Solutions – Slope Reinforcement
Analysis & Design, Hydro Seeding and Soil
Treatment

Brand Name

FIBROMAT



CONTACT

Address

JR 52, Lot 1818 Jalan Raja
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84300 Muar
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Website

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Contact Persons

Mr Chua Heok Wee
Chief Executive Officer

Mr Zairaz Ismail
Project Manager

DETAILS

Year Established

1987

Type of Business

Manufacturer

Certifications

ISO 9001:2000, ISO 9001:2000 Ukas Quality Management, ISO 9001:2000 Anab Accredited (America)

Export Markets

Colombia, Costa Rica, India, Indonesia, Mexico, Nigeria, Papua New Guinea, Philippines, Portugal, Solomon Island, South Africa, Thailand

Products

Palm Kernel Oil / Copra / Coconut Oil Expeller, Empty Fruit Bunch (EFB) Press Machine, Oil Filter, Instant Composting Technology, EFB Shredder Machine, Pellet Machine, Briquette Machine, Jatropha Oil Expeller

Brand Name

MBL



CONTACT

Address

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Selangor
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Website

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Contact Persons

Mr Nishanth P.T
Managing Director

Mr Harjit Singh
Operation Manager

DETAILS

Year Established

2010

Type of Business

Manufacturer

Export Markets

Germany, India, Japan, Poland, South Korea, The
Netherlands, United Arab Emirates

Type of Biomass

Palm Kernel Shell (PKS), Mesocarp Fibre, Paddy
Husk, Sawdust, Coconut Husk

Product

Biomass Pellet

Brand Name

NIKKHSIN



CONTACT

Address

Lot 32587, Jalan BS 7/7
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Malaysia

Tel

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Email

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Contact Person

Mr William Wong
Director

DETAILS

Year Established

2006

Type of Business

Manufacturer

Export Markets

China, Russia, South Africa, Spain, United Arab Emirates, United Kingdom

Type of Biomass

Palm Wood

Products

Panel for Furniture and Door, Hotel & Restaurant Furniture

Brand Name

PALMTEC



CONTACT

Address

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Email

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Contact Person

Mr Hamizat Kamsan
General Manager

DETAILS

Year Established

2008

Type of Business

Manufacturer

Type of Biomass

Rice Bran, Rice Husk

Product

Bio Organic Fertiliser

Brand Name

EMBIO ACTINOPLUS



CONTACT

Address

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Contact Person

Mr Cheah Choong Yueh
Managing Director

DETAILS

Year Established

1995

Type of Business

Manufacturer

Certification

ISO 9001:2000

Export Markets

Australia, Bahrain, France, Germany, Hong Kong, Italy, Mauritius, Philippines, South Korea, Taiwan, United Arab Emirates, United Kingdom

Type of Biomass

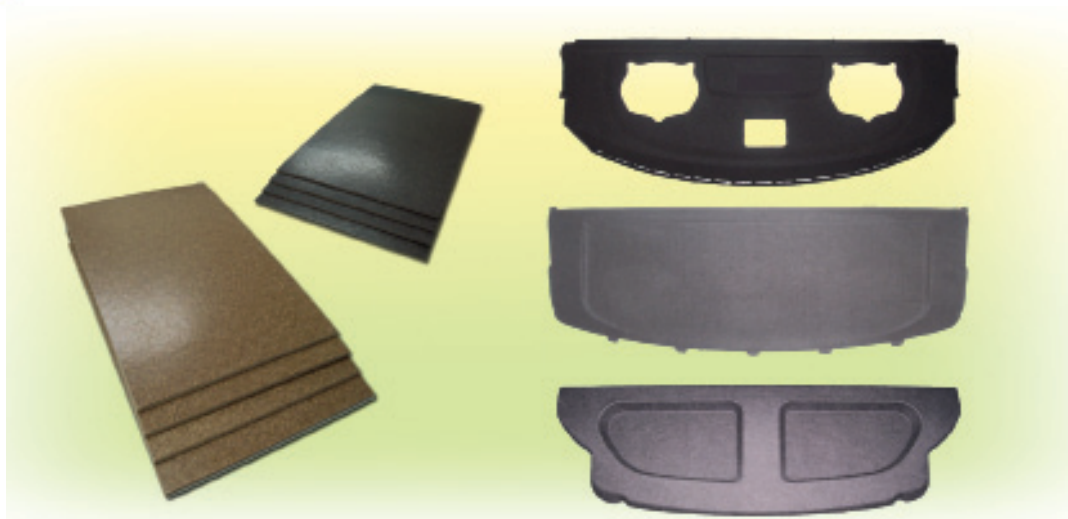
Sawdust

Products

Wood Plastic Composite Products - Sun Lounger, Fencing, Louver, Hand Rail, Decking, Gazebo, Lattice

Brand Name

ABWOOD



CONTACT

Address

75-2, Jalan TKS 1
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Fax

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Contact Persons

Mr Abdul Razak Rohany
General Manager
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Mr Md Hermi Saien
Business Development Executive
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DETAILS

Year Established

2004

Type of Business

Manufacturer

Certification

ISO 9001:2008

Export Markets

China, India, Indonesia, Iran

Type of Biomass

Oil Palm Fibre, Sawdust, Kenaf

Products

Reinforced Plastic Composite Products - Sheet for
Automotive Parts

Brand Name

POLYMEX



CONTACT

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6012-4742042

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Website

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Contact Person

Mr K B Choo
Director

DETAILS

Year Established

2006

Type of Business

Manufacturer

Export Markets

Denmark, India, United States of America

Type of Biomass

Oil Palm Trunk

Product

Palm Wood Flooring

Brand Name

POLYPALM FLOORING



CONTACT

Address

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Website

www.ql.com.my

Contact Person

Mr Vincent Tan
Sales & Marketing Manager

DETAILS

Year Established

2010

Type of Business

Manufacturer, Trader

Export Markets

Brunei Darussalam, China, Indonesia, Japan,
South Korea, Thailand, Vietnam

Type of Biomass

Palm and Wood Waste

Products

Palm Pellet, Wood Pellet, Palm Kernel Expeller

Brand Name

QL AGRIPellet



CONTACT

Address

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Contact Person

Mr Yong Leong Sen
Managing Director

DETAILS

Year Established

2006

Type of Business

Manufacturer

Type of Biomass

Rice Husk, Coconut Coir, Oil Palm Frond

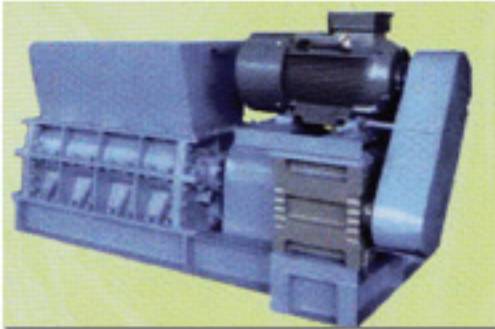
Products

Ceiling Panel, Wall Panel, Staircase, Flooring,
Fire-Stop Board, Column and Beam, Countertop,
Furniture

Brand Name

RESTREES ECO PRODUCTS





CONTACT

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Website

www.sawipac.com

Contact Persons

Mr Neo Teck Siong
Managing Director

Mr Er Cheow Chin
Director

DETAILS

Year Established

1996

Type of Business

Manufacturer

Certification

ISO 9001:2008

Export Markets

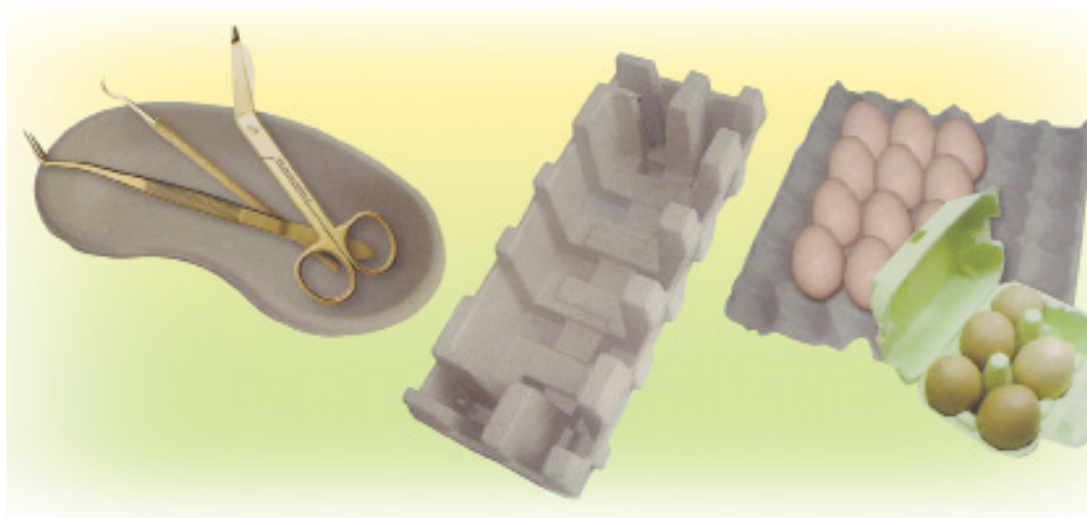
Cambodia, Indonesia, Papua New Guinea, South
Africa, Thailand

Product

Empty Fruit Bunch (EFB) Press Machine

Brand Name

SAWIPAC



CONTACT

Address

Lot 20832, Jalan Logam 6
Kamunting Industrial Estate
Kamunting Tambahan 3
34600 Kamunting
Perak
Malaysia

Tel

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Mr Norman Jeffri Mohamad Jamil
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Mr Khairur Rahim Helmi
(khairul@spptsb.com)

Mr Mohamad Najib Tajudin
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DETAILS

Year Established

2001

Type of Business

Manufacturer

Certification

FDA

Export Markets

Japan, Singapore, South Korea, Vietnam

Type of Biomass

Empty Fruit Bunch (EFB)

Products

Pulp & Paper, Food Tray, Envelope, Cutlery

Brand Name

PALMOR



CONTACT

Address

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Malaysia

Tel

603-62111479 / 6012-2107269

Email

junko@studioj.info

Website

www.studioj.info

Contact Person

Mr Junko Harada
Managing Director

DETAILS

Year Established

2010

Type of Business

Manufacturer

Export Market

Japan

Type of Biomass

Palm Kernel Shell (PKS) - Activated Carbon

Products

Handmade Natural Charcoal Soap, Deodoriser
Products

Brand Name

MA LAY TAN



CONTACT

Address

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73400 Gemas
Negeri Sembilan
Malaysia

Tel

6019-7792550

Fax

607-9481285

Contact Person

Mr Law Pow Sen
Managing Director
powsenlaw@gmail.com

DETAILS

Year Established

2008

Type of Business

Manufacturer

Export Markets

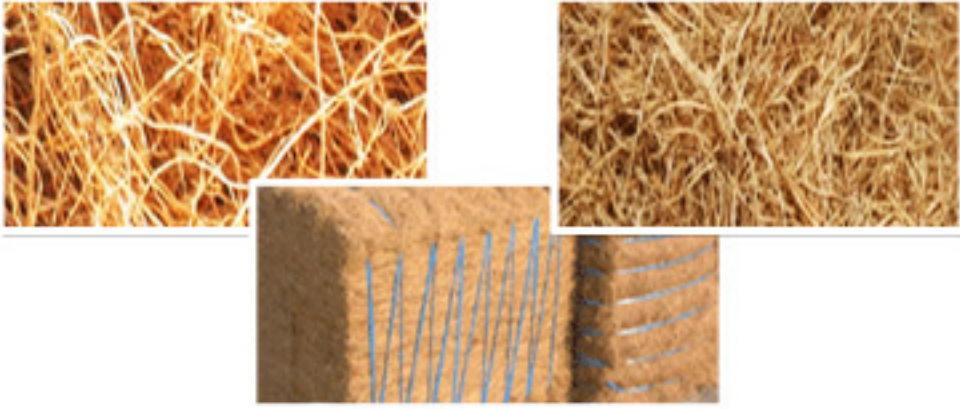
Greece, Japan, South Korea, Turkey

Type of Biomass

Sawdust, Charcoal

Products

Sawdust Briquette Charcoal, Wood Briquette



CONTACT

Address

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Contact Person

Mr Veerasekar
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veera.sekar@sumberteraju.com.my

DETAILS

Year Established

2007

Type of Business

Manufacturer

Export Markets

China, India

Type of Biomass

Palm Oil Waste Products

Product

Dried Long Empty Fruit Bunch (EFB) Fibre for
Cushion & Mattress

Brand Name

FIBER PLUS



CONTACT

Address

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603-55106817 / 55111739 /
55123297

Fax

603-55107052

Email

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szetech95@gmail.com

Contact Persons

Mr Chew Kian Sang
Director

Mr Tan Kim Hai
Director

DETAILS

Year Established

1995

Type of Business

Manufacturer

Export Markets

Bolivia, Brazil, Chile, Indonesia, Mexico, Uruguay

Products

Empty Fruit Bunch (EFB) Processing Machinery -
Briquette Machine, Shredder Machine, Pellet
Machine, Press Machine

Brand Name

SZETECH ENGINEERING



CONTACT

Address

Lot 248, Fasa 4B
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Rambai
75250 Melaka
Malaysia

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Fax

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Email

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Website

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Contact Person

Mr Colin Chin
Business Development Executive

DETAILS

Year Established

1994

Type of Business

Manufacturer

Certifications

ISO 9001:2008, ISO14001:2004, Sony Green
Partner

Export Markets

Japan, Singapore, United States of America

Type of Biomass

Plant Fibre

Products

Biodegradeable Moulded Pulp Products - Industrial
Pulp Cushion, Paper Egg Tray, Surgical Tray

Brand Name

TELIC



CONTACT

Address

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Email

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Website

www.boisdeck.com

Contact Person

Mr Alfred Fok
Executive Director

DETAILS

Year Established

2011

Type of Business

Manufacturer

Certifications

Green Label, TUV, SGS

Export Markets

Bahrain, France, Iran, Italy, Singapore, Spain,
Ukraine, Vietnam

Type of Biomass

Rice Husk

Products

Exterior Floor Decking, Exterior Wall Cladding
(Paneling)

Brand Names

BOISDECK, EAZY WOOD



CONTACT

Address

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Malaysia

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Fax

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Email

topbiomass@yahoo.com

Contact Person

Mr Tan Chee Keong
Managing Partner

DETAILS

Year Established

2011

Type of Business

Manufacturer, Trader

Type of Biomass

Rice Husk, Rice Straw, Palm Fibre, Palm Kernel Shell (PKS), Bamboo, Peanut Shell, Oat Straw, Wheat Straw, Sawdust

Products

Rice Husk Pellet, Wood Pellet



CONTACT

Address

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Malaysia

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Contact Person

Mr Liaw Kon Sung
Director
konsungliaw@gmail.com

DETAILS

Year Established

2002

Type of Business

Manufacturer

Export Markets

Japan, Romania, Saudi Arabia, Singapore

Type of Biomass

Coconut Shell

Products

Coconut Charcoal Briquette, Fire Starter

Brand Name

STARFIRE



CONTACT

Address

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Selangor
Malaysia

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Website

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Contact Person

Mr Syaiful Ridzuan Salleh
Sales Assistant Manager
syaiful@vickershoskins.com

DETAILS

Year Established

1978

Type of Business

Manufacturer

Certifications

ISO 9001:2008, ASME 'U' & 'S' Stamps, CIDB,
DOSH & Babcock Power Limited

Export Markets

Indonesia, Papua New Guinea, Philippines,
Thailand

Product

TW Series – Bi-Drum Biomass Water Tube Boiler

Brand Name

VICKERS HOSKINS



CONTACT

Address

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Kawasan Perindustrian Gebeng
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Malaysia

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Fax

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Website

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Contact Persons

Mr Mohd Zulkarnaini Wahab
Senior Vice President, Project

Mr Nadzrihan Hassan
Senior Vice President
Business Development

DETAILS

Year Established

2004

Type of Business

Manufacturer

Certifications

Transfer of Technologies (MPOB), Pioneer Status (MIDA), Free Trade Sales Certificate (MOH), Intellectual Property Corporation of Malaysia (MyIPO)

Type of Biomass

Palm Oil Empty Fruit Bunch (EFB)

Products

Specialty Chemical - Carboxymethyl Cellulose & Cellulose

Brand Name

NOVELCELL



CONTACT

Address

Unit C-G-2, C-G-3, C-G-3A
Ground Floor, Block C
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Website

www.waynetech.my

Contact Person

Datuk Tan Cheng Kiat
Chief Executive Officer

DETAILS

Year Established

2005

Type of Business

Manufacturer

Export Markets

Australia, New Zealand

Type of Biomass

Empty Fruit Bunch (EFB), Palm Kernel Shell (PKS)

Products

Organic Fertiliser, Vermicomposting

Brand Name

ORANGUTAN 100% ORGANIC FERTILIZER



CONTACT

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Website

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Contact Person

Mr Autilig Cheong
Chief Executive Officer

DETAILS

Year Established

2006

Type of Business

Manufacturer

Export Markets

Denmark, Italy, Japan, South Korea

Type of Biomass

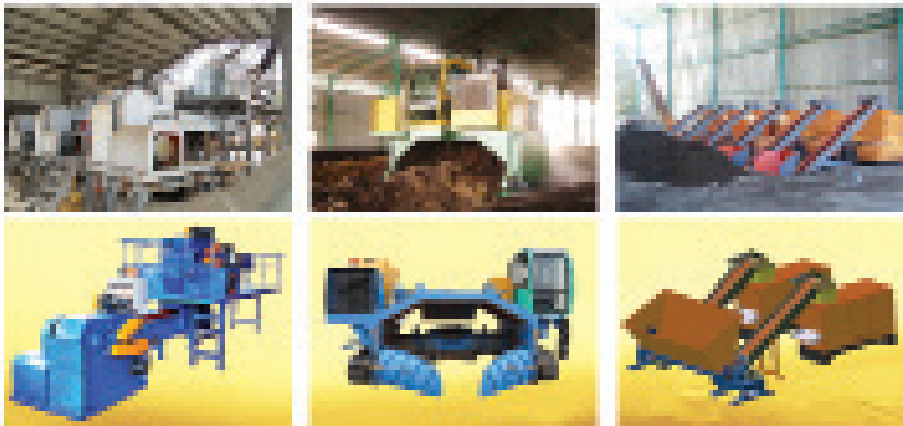
Oil Palm Fibre, Sawdust, Rice Husk, Rice Straw

Product

Fuel Pellet

Brand Name

WELBECK



CONTACT

Address

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Website

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Contact Person

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Business Development Manager
elyn@wp-technology.com

DETAILS

Year of Established

2010

Type of Business

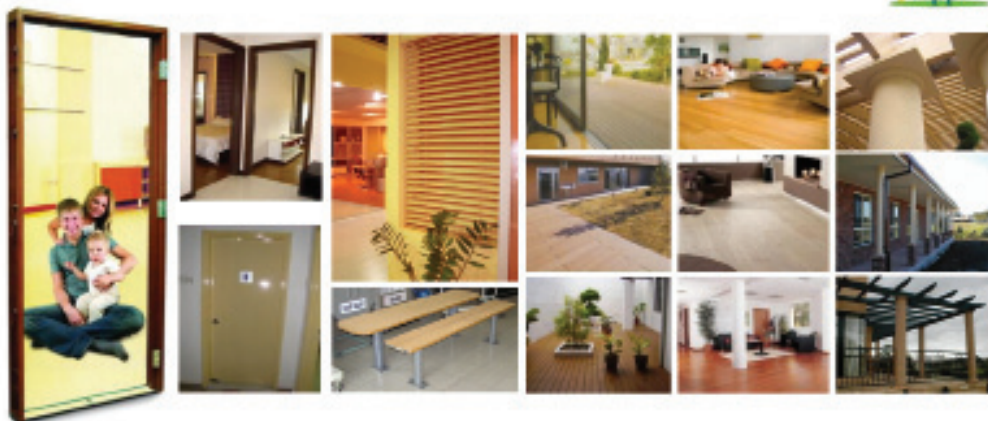
Service & Technology Provider

Products

Organic Fertiliser Plant System, Composting Plant System

Brand Name

WP-DAITOKU



CONTACT

Address

4, Jalan Perusahaan Utama
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Contact Person

Mr Hang Chit Meng
Director

DETAILS

Year Established

2005

Type of Business

Manufacturer

Certification

ISO 9001:2005

Export Markets

Australia, India, Singapore

Type of Biomass

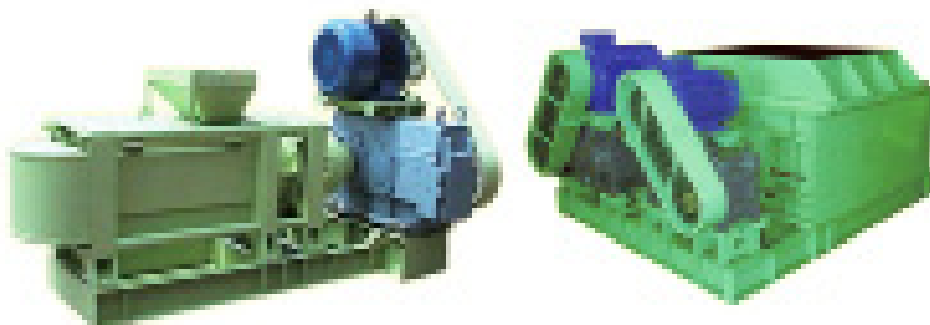
Sawdust

Products

Doorjamb, Column & Capital, Decking, Flooring,
Railing

Brand Name

WPPRO



CONTACT	DETAILS
Address Lot 663, Batu 10 Kampung Paya Panjang, Bukit Pasir 84300 Muar Johor Malaysia Tel 606-9859155 / 9076 / 7518 Fax 606-9857567 / 7576 Email ykl@khunheng.com.my Website www.khunheng.com Contact Person Mr Max Yeo Marketing Director	Year Established 2002 Type of Business Manufacturer Certification ISO 9001:2008 Export Markets Brazil, Indonesia, Nigeria, Papua New Guinea, Philippines, Sri Lanka, Thailand Products Empty Fruit Bunch (EFB) Splitter, Heavy Duty Empty Fruit Bunch (EFB) Super Press Machine, Empty Fruit Bunch (EFB) Press Machine, Empty Fruit Bunch (EFB) Shredder Machine, Palm Kernel Expeller Brand Names YKL, KHUN HENG



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zentretex@hotmail.com

Contact Person

Ms Bee Leng Lim
Marketing Executive

DETAILS

Year Established

2006

Type of Business

Trader

Export Market

China

Type of Biomass

Oil Palm Fibre, Coconut Fibre

Products

Raw Materials - Oil Palm Fibre, Coconut Fibre

Brand Name

ECO

GLOSSARY



GLOSSARY

ACTIVATED CARBON

Activated carbon is a processed form of carbon treated to be more porous.

AGRICULTURAL RESIDUE

Agricultural crop residues are the plant parts, primarily stalks and leaves, not removed from the fields with the primary food or fibre product.

ASH

Ash is the non-combustible residue remaining after combustion. For biomass combustion, the ash consists of mainly inorganic elemental oxides representing bulk mineral matter after carbon; oxygen, sulphur and water have been driven off during combustion.

BAGASSE



Residue remaining after extracting a sugar-containing juice from plants like sugarcane.

BIOBASED CHEMICALS

Chemicals that are derived from plant or animal feedstock are typically considered biobased chemicals.

BIOBASED MATERIAL

An organic material in which carbon is derived from a renewable resource via biological processes. Biobased material includes all plant and animal mass derived from carbon dioxide recently fixed via photosynthesis per definition of a renewable resource.

BIOCHAR

Biochar is a porous carbonaceous solid produced by the thermochemical conversion of organic materials in an oxygen-depleted atmosphere. Biochar production systems are generally classified as either pyrolysis or gasification.

BIOCOMPOSITES

Biocomposites materials such as biomass fibres are molded and bonded together with a natural or synthetic resin. Biocomposites are characterised by the fact that the petrochemical resin is replaced by a vegetable or animal resin, and/or the bolsters are replaced by natural fibre.

BIOFUELS

Solid, liquid or gaseous fuel that is derived from biomass or biological materials. Biomass that has been processed or converted in some way into a more convenient form, principally to increase energy density.

BIOGAS

A mixture of methane and carbon dioxide produced by anaerobic digestion, with small amounts of other gases. The methane is a flammable gas, chemically identical to the main constituent of natural gas, and can be used as a fuel for heat and/or electricity generation.

BIOMASS CONVERSION TECHNOLOGY

Three main biomass conversion technology platforms are being explored today: thermal, biological and chemical. These are the technologies to convert biomass into biofuels and biobased chemicals.

BIOLOGICAL CONVERSION

Biomass is treated by chemicals and enzymes to produce sugars, which are then fermented into the desired fuels or chemicals.

BIOMASS PELLETS



Biomass pellets are short cylindrical pieces produced through compressing pulverised dry biomass. Biomass pellets (energy pellets) are renewable, high quality, solid biofuel with the significant properties of high energy density, low moisture content and homogeneity in their size and shape. Biomass pellets are also used as animal bedding.

BIOPLASTICS

Bioplastics is used to define two different kinds of plastics. One plastic product is based on renewable resources, the focus being on the origin of the material being used. The second product is biodegradable and compostable plastics where the focus is on the compostability of the final product.

BIOREACTORS

A large stainless steel tank used to grow producer microorganisms in the industrial production of enzymes and other chemicals.

BIOREFINERY

A biorefinery is a facility that integrates biomass conversion processes and equipment to produce fuels, power and chemicals from biomass.

CHEMICAL COMPOSITION OF BIOMASS

The percentages of various chemical components such as lignin, holocellulose, α -cellulose, hemicellulose and ash present in several forms of oil palm biomass provide an indication on their strength during fibre processing and chemical pulping, and on their readiness to be converted into simpler sugars for use as chemicals or biofuels.

CHEMICAL CONVERSION

Biomass and sugars are treated using chemicals only in a variety of methods to produce fuels or chemicals.

GLOSSARY

COCONUT FIBRE

Coconut fibre or coir is obtained from the fibrous husk (mesocarp) of the coconut. Coconut fibre has high lignin content and thus a low cellulose content, as a result of which it is resilient, strong and highly durable.

COMBINE HEAT AND POWER (CHP)

A system in which the heat associated with electricity generation is also used for space heating or process heat. In this way the overall efficiency of the process in terms of the proportion of the energy in the biomass fuel that is made use of is increased considerably. Also known as co-generation.

DIRECT COMBUSTION

Refers to burning biomass directly in a furnace to produce heat and electricity. Steam produced from heat of combustion powers a turbine that turns a generator to produce electricity.

DRIED LONG FIBRE



Palm fibre is extracted from oil palm's vascular bundles in the empty fruit bunch (EFB). Technology can convert EFB to dried long fibre and short dried fibre. Dried long fibre has a length of 5 - 15cm with moisture content around 12 - 15% and oil content less than 1%.

DRIED SHORT FIBRE



The dried short fibre is less than 1cm in length with moisture content around 12 - 15% and oil content less than 1%. It can be processed into biomass pellets and used in wood plastic composites.

EMPTY FRUIT BUNCH (EFB)



EFB is oil palm biomass resulting from the palm-oil extraction and milling process. EFB is both very fibrous and wet. It is conveniently collected and available for exploitation at palm oil mills.

GLOSSARY

FERMENTATION

A biochemical reaction that breaks down complex organic molecules (such as carbohydrates) into simpler materials (such as ethanol, carbon dioxide and water). Bacteria or yeast can ferment sugars to ethanol.

FURFURAL

An aldehyde derivative of certain biomass conversion processes; used as a solvent.

GASIFICATION

The process by which carbonaceous fuel (any fossil or biomass fuel consisting of / or containing carbon) is converted to a useable gaseous product without complete combustion of the fuel.

GLUCOSE

A six-carbon fermentable sugar.

HEMICELLULOSE

Hemicelluloses are polysaccharides in plant cell walls. Unlike cellulose, hemicellulose consists of short, highly branched chains of sugars. In contrast to cellulose, which is a polymer of only glucose, hemicellulose is a polymer of five different sugars. Hemicelluloses include xylan, glucuronoxylan, arabinoxylan, glucomannan and xyloglucan.

HYDROLYSIS

A chemical reaction that releases sugars that are normally linked together in complex chains. In ethanol production, hydrolysis reactions are used to break down the cellulose and hemicelluloses in the biomass.

KENAF FIBRE



The fibres in kenaf are found in the bast (bark) and core (wood). The bast constitutes 40% of the plant. These bast fibres are long (2 - 6 mm) and slender. The cell wall is thick. The core is about 60 % of the plant. The core has thick but short (0.5 mm) and thin walled fibres. Kenaf is an annual or biennial herbaceous plant

growing 1.5 - 3.5 m tall with a woody base. The stems are 1 - 2 cm in diameter.

LIGNIN

A complex polymer that serves as a component of wood and vascular plants, making them firm and rigid.

LIGNOCELLULOSIC BIOMASS

Refers to the main building blocks of plant matter: that is composed of lignin, cellulose and hemicelluloses. Second generation biomass conversion technologies are being developed to convert lignocellulosic biomass to biofuels and biobased chemicals.

MESOCARP FIBRE



Palm fruit is about 5cm in length and has an oval shape. It consists of yellowish red oily flesh mesocarp and single seed palm kernel nut. At crude palm oil mills, palm fruit is cook under hot steam and pressed for oil extraction, with mesocarp fibre and palm kernel nut as left over mass. The mesocarp fibre is then separated from palm kernel nut by cyclone separator. Mesocarp fibre is elongated cellulose with 30 - 50mm length.

MOISTURE CONTENT

The proportion of water in a sample of biomass, defined as the weight of water as a percentage of the weight of biomass. This can be defined on either a wet basis, as a percentage of the total (wet) weight of the sample, or a dry basis, as a percentage of the oven dry weight of biomass. Wet basis is usually used for fuel purposes.

OIL PALM BIOMASS

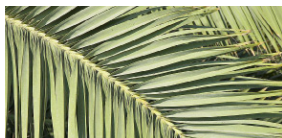
Six main types of oil palm biomass are produced as by-products of the palm oil industry: oil palm fronds, oil palm trunks, empty fruit bunch, palm kernel shells, mesocarp fibre and palm oil mill effluent. Oil is only 10% of the total dry matter of the oil palm with the remaining 90% being oil palm biomass.

OIL PALM FRONDS (OPF)



The oil palm fronds (OPF) are the leaves of the oil palm and are available during pruning and replanting activities. The oil palm frond is approximately 2-3 meters long and weighs about 10kg (wet weight). It consists of the petiole (the stem) and many long leaflets on either side of the stem. The top two thirds of the frond contain most of the nutrients, while the basal (lower) third is rich in cellulosic materials and sugars, which are needed in the production of biofuels and biobased chemicals.

OIL PALM LEAFLETS



Oil palm leaflets are on either side of the stem of the top and middle of the frond. These top two thirds of the oil palm frond contain most of the nutrients.

OIL PALM TRUNK (OPT)



Oil palm trunks become available at the end of a plantation's life cycle every 25 to 30 years. The bole length of felled palm trunk is in the range of 7 - 13m, with a diameter of 45cm - 65cm, measured at breast height. OPT has been utilized to replace wood. It has been

used in plywood, veneer, MDF, furniture and flooring industries.

PALM KERNEL CAKE (PKC) / PALM KERNEL EXPELLER (PKE)

Palm kernel cake (PKC) or palm kernel expeller (PKE) is the remains after palm kernel oil is pressed out from the palm kernel nut of the palm fruit.

PALM KERNEL SHELL (PKS)



Palm kernel shells (PKS) remains after palm kernel oil extraction.

PALM OIL MILL EFFLUENT (POME)

The processing of fresh fruit bunches of oil palm results in the generation of different type of residues of which one is POME. POME comprises a combination of wastewater from three main sources via clarification (60 %), sterilization (36 %) and hydrocyclone (4%) units. It contains various suspended components including cell walls, organelles, short fibres, a spectrum of carbohydrates ranging from hemicelluloses to simple sugars, a range of nitrogenous compounds from proteins to amino acids, free organic acids and an assembly of minor organic and mineral constituents.

PYROLYSIS

Pyrolysis is a thermo-chemical conversion process whereby biomass is heated at high temperatures in the complete absence of an oxidant (oxygen). Products for this process include combustible gas, liquid condensates and charcoal. The liquid portion is called pyrolysis oil, which can be burned to generate electrical power. It can also be used as a chemical additive to produce plastics and other bio-products.

GLOSSARY

STARCH

Starch is a carbohydrate consisting of large number of glucose units joined by glycosidic bonds. This polysaccharide is produced by all green plant as an energy store. Starch is a carbohydrate consisting of large number of glucose units joined by glycosidic bonds. This polysaccharide is produced by all green plant as an energy store.

STOVER

The dried stalks and leaves of a crop remaining after the grain have been harvested.

SYNTHESIS GAS

A mixture of carbon monoxide and hydrogen which is the product of high temperature gasification of organic material such as biomass. Following clean-up to remove any impurities such as tars, synthesis gas (syngas) can be used to synthesize organic molecules such as synthetic natural gas (SNG - methane or liquid biofuels such as synthetic diesel (via Fischer-Tropsch synthesis).

THERMAL CONVERSION

Biomass is first broken down into syngas using heat and low oxygen concentrations. Subsequently, a range of thermo-chemical processes can be applied to generate fuels or chemicals.

XYLAN

Xylan is polysaccharides made from unit of xylose. It is a polymer of xylose with a repeating unit of CHO (chemical formula Carbon Hydrogen Oxygen), found in the hemicelluloses fraction of biomass.

XYLOSE

Xylose is classified as a monosaccharide of aldopentose type that contains five carbons. Xylose is the main building block for hemicelluloses which comprises about 30% of plant matter.

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4. *Biomass Energy Centre Glossary*

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- Bio-composites Technology

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Areas of Expertise / Research:

- Extraction of Xylose and Cellulose from Oil Palm Biomass
- Enzymatic Treatment of Oil Palm Biomass
- Bio-Degradable Plastic from Oil Palm Biomass
- Particleboard Technology
- Chemical Analysis and Analytical Technology
- Bio-Polymer Technology



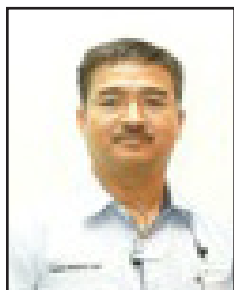
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Areas of Expertise / Research:

Product Innovation & Engineering

- Engineered Lumber & the Products from Sustainable Resources
- Multi-Functional Furniture
- Furniture-Electronic Integration

EXPERTS



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- MDF Pilot Plant Manager
- Bio-Composite Testing
- Acoustic Technology



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Areas of Expertise / Research:

- Oil and Gas Engineering
- Biomass to Energy
 - Flow Assurance
 - Combustion Processes

MATRADE SERVICES



MATRADE SERVICES

Malaysia External Trade Development Corporation (MATRADE), was established in March 1993 as a statutory agency under the Ministry of International Trade Industry (MITI).

As Malaysia's national export promotion agency, MATRADE is responsible for assisting Malaysian companies succeed in the international market. MATRADE's vision of making Malaysia the premier exporting nation is paired with its mission to develop and promote Malaysia's exports to the world.

MATRADE serves to promote Malaysia's external trade with particular emphasis on the export of manufactured and semi-manufactured products and services. In addition, MATRADE formulates and implements export marketing strategies and trade promotion activities to increase Malaysia's exports, undertake market research, and create a comprehensive database of information for the development and improvement of Malaysia's trade. MATRADE also organizes training programs to enhance the international marketing skills of Malaysian exporters, promote and assist in services related to trade, and protect Malaysia's international trade interest abroad.

MATRADE's objectives are:

- To raise the profile of Malaysian exporters in foreign markets;
- To disseminate timely and relevant information and market intelligence to help Malaysian companies gain a competitive edge in foreign markets;

- To introduce Malaysian companies to foreign importers seeking Malaysian suppliers; and
- To undertake activities to promote the export of Malaysian goods and services in overseas markets.

MATRADE is also actively involved in assisting foreign companies to source for suppliers of Malaysian products and services, and is represented worldwide at over 40 locations in major commercial cities. In Malaysia, MATRADE has five local branches in Penang, Terengganu, Johor, Sabah, and Sarawak.



MATRADE SERVICES

MATRADE's mission is to develop and promote Malaysia's export to the world and its functions are:

- To promote, assist and develop Malaysia's external trade with particular emphasis on the export of manufactured and semi-manufactured products and, on a selective basis, imports;
- To formulate and implement a national export marketing strategy to promote the export of manufactured and semi-manufactured products;
- To undertake commercial intelligence and market research and create a comprehensive database of information for the improvement and development of trade;
- To organise training programmes to improve the international marketing skills of the Malaysian exporters;
- To enhance and protect Malaysia's international trade interests abroad;
- To represent Malaysia in any international forum in respect of any matter relating to trade;
- To develop, promote, facilitate and assist in service areas related to trade; and
- To advise the Government on matters affecting or in any way connected with trade and to act as the agent of the Government or for any person, body or organisation on such matters

Among the services provided by MATRADE are:

- MATRADE Business Information Centre;
- Electronic Publications;
- Market Information;
- Organising Overseas Trade Missions, Specialised Marketing Missions,

International Trade Fairs, Promotion Booths, Malaysian Product Exhibitions and In-Store Promotions;

- Exhibition Centres (Domestic and International);
- Business Matching following Trade Enquiries;
- Incoming Buying Missions;
- Incoming Trade Delegations;
- Seminars and workshops.



Malaysian exporters or export ready companies are welcome to become MATRADE member by registering online or by submitting their Malaysia Exporters Registry brochure to the Trade Advisory Services Unit. Registration with MATRADE is free. MATRADE can be contacted at:

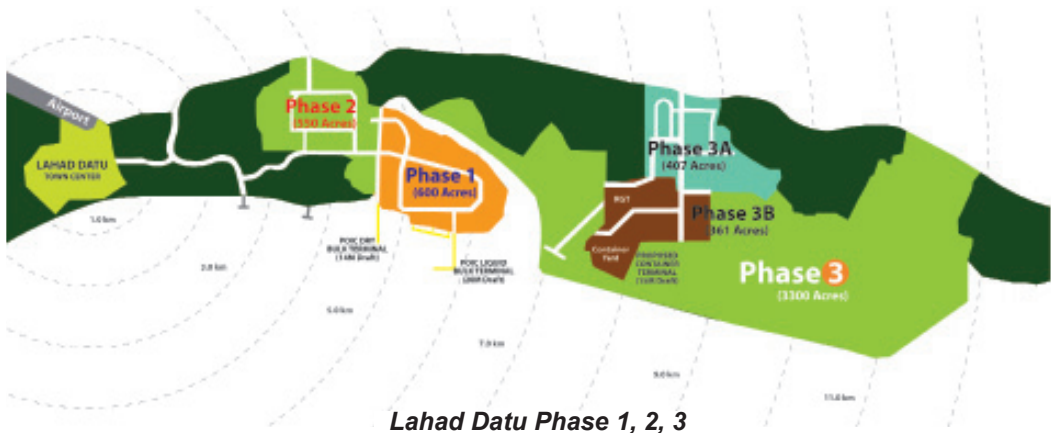
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POIC SABAH SDN BHD



POIC SABAH SDN BHD



Lahad Datu Phase 1, 2, 3

The Sabah state government in 2005 initiated the development of palm oil industrial clusters to spearhead downstream palm oil processing to add value, to create jobs and new wealth. Since then, interests and investments have expanded not only into palm oil-based downstream industries but also in the utilisation of oil palm biomass.

It is estimated that oil palm plantations in Malaysia produce 80 million tons of biomass per year. Although numerous home grown and foreign technologies have made it to utilise the biomass for a variety of products such as pellets, fertilisers, animal feed, energy etc development lacked pace because of uncertain feedstock availability.

Studies have shown that the east coast of Sabah is ideal for biomass development because of the concentration of plantations and mills. POIC Lahad Datu is located at Lahad Datu, in the heart of Sabah's oil palm growing area.

POIC Lahad Datu started Sabah's palm oil downstream revolution. It began with 1,150 acres in an area adjacent to an existing cluster of oil palm refineries, and enjoying a natural harbor with depths of up to 20 meters. This enables vessel of up to 100,00 dwt to call at the liquid terminal.

Government support enabled rapid development of POIC Lahad Datu. The cluster, which has 41 investors with a combined investment of RM4.5 billion (as of June 2012) has completed a

five-berth liquid bulk terminal, a dry bulk jetty with two quay cranes and a conveyor belt system (catering to a fertiliser cluster with nine plants in various stages of completion) and a comprehensive pipe rack system.

A RM490 million container terminal has been approved for construction. A LNG re-gasification terminal and a 300MW gas-fired power plant are being planned for POIC Lahad Datu with completion from 2015. These enhance POIC Lahad Datu's readiness and competitiveness to be a hub for regional oil palm-related industries as well as a logistics hub for the region of BIMP-EAGA, or Brunei-Indonesia-Malaysia-Philippines East Asean Growth Area, covering the sultanate of Brunei Darussalam, the territories of Sabah, Sarawak In Malaysia, Mindanao in the Philippines, Kalimantan, Sulawesi, and Irian Jaya in Indonesia. BIMP-EAGA has a population of 60 million and is rich in natural resources. The geographical location, regional dynamics, raw materials availability and superior logistics infrastructure give Lahad Datu a distinct all-round advantage for investors.

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POIC is located near the township of Lahad Datu in southeastern Sabah. It is at the centre of the state's 1.3 million hectares of oil palm plantations. The first two phases covering 1,150 acres focus on major palm oil industries such as refineries, biodiesel plants, oleochemicals, biomass and critical support industries such as a central steam provider, bulking installations and dedicated jetties. In the next phase covering about 3,300 acres, a broader based cluster is planned to encompass energy intensive sectors, cocoa, ship repairs and construction, food, marine, furniture and machinery sectors. A halal hub comprising 1,000 acres is also targeted to capture the sizable global halal market.

For further information:



Palm Oil Industrial Cluster
Lahad Datu, Malaysia

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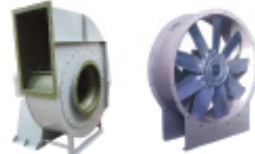
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Special Treatment:
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Capacities up to 1,800,000 m³/h and pressure up to 30 000 Pa.



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ISO 9001:2008

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Capacity:
1,000 to 500,000 m³/h

Materials:
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Venturi Scrubber & Wet Dust Collector
Applications:
Fine Wet Dust, Wet, Hot, City Dust & Fumes

Capacity:
1,000 m³/h up to 500,000 m³/h

Materials:
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Fabric Filter Pulse-jet Dust Collectors

Applications:
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Filter area:
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Filter materials:
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Materials:
Mild Steel, Galvanized Steel, Stainless Steel



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RENEWABLE GREEN ENERGY
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RENEWABLE GREEN ENERGY
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RENEWABLE GREEN ENERGY
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MATRADE WORLDWIDE NETWORK

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Malaysian Palm Oil Board

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Malaysian Rubber Board

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Malaysian Timber Industry Board (Ministry Of Plantation Industry and Commodities)

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Ministry of Energy, Green Technology & Water

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16150 Kota Bharu
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Universiti Malaysia Sarawak (UNIMAS)

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Malaysia Biomass Industrial Confederation

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Tel : 603-87762000
Fax : 603-89265510
Email : publicrelation@malaysiaairports.com.my
Website : www.klia.com.my

Kota Kinabalu International Airport

88740 Kota Kinabalu
Sabah
MALAYSIA
Tel : 6088-325555
Fax : 6088-219081
URL : www.malaysiaairports.com.my

Kuching International Airport

P.O. Box 1070
93722 Kuching
Sarawak
MALAYSIA
Tel : 6082-454262
Fax : 6082-458587
Website : www.malaysiaairports.com.my

USEFUL CONTACTS

Langkawi International Airport

Padang Mat Sirat
07100 Langkawi
Kedah
MALAYSIA
Tel : 604-9551311
Fax : 604-9551314
Website : www.malaysiaairports.com.my

Penang International Airport

11900 Bayan Lepas
Penang
MALAYSIA
Tel : 604-6434411
Fax : 604-6435339
Website : www.malaysiaairports.com.my

Tel : 603-26012000
Fax : 603-26012100
Website : www.exim.com.my

Labuan Financial Services Authority (Labuan FSA)

Level 17, Main Office Tower
Financial Park Complex
Jalan Merdeka
87000 Labuan
Sabah
MALAYSIA
Tel : 6087-591200
Fax : 6087-428200 / 453442
Email : communication@labuanfsa.gov.my
Website : www.labuanfsa.gov.my

CENTRAL BANK

Bank Negara Malaysia

Jalan Dato' Onn
P.O. Box 10922
50929 Kuala Lumpur
MALAYSIA
Tel : 603-26988044
Fax : 603-26912990
Email : bnmtelexlink@bnm.gov.my
Website : www.bnm.gov.my

FINANCIAL INSTITUTIONS

Bank Perusahaan Kecil Dan Sederhana Malaysia Berhad (SME Bank)

Menara SME Bank
Jalan Sultan Ismail
P.O. Box 12352
50774 Kuala Lumpur
MALAYSIA
Tel : 603-26152020 / 2828
Fax : 603-26981748
Website : www.smebank.com.my

Export-Import Bank of Malaysia Berhad (EXIM Bank)

Level 1, Exim Bank
Jalan Sultan Ismail
50250 Kuala Lumpur
MALAYSIA

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