

# Palm Kernel Shell (PKS) for Fuel Indonesia



株式会社アローフィールド

〒662-0015 兵庫県西宮市甲陽園本庄町5-16

☎ 0798-75-1100

✉ [biomass@arrowfield.co.jp](mailto:biomass@arrowfield.co.jp)

<https://ssl.arrowfield.co.jp/>





# Palm Kernel Shell (PKS) for Fuel Indonesia



Product Name: Palm Kernel Shell (PKS)

Type: DURA 70% TENERA 30%

Origin: Kumai, Central Borneo, Indonesia

Shipping: Transshipment from Barge to Bulk MV

Production Capacity: Approximately 15,000 MT/Month

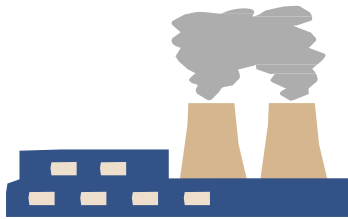
Stockpile: 1 Ha (100% Concrete)

Incoterms: FOB

Payment terms: 10% T/T after signing contract,  
30% T/T Before loading from barge to bulk ship,  
60% L/C At Sight

# Palm Kernel Shell Logistic Route (10,000MT Expected Loading)

From procuring PKS from palm oil factory and  
completing screening: 40 days



## Palm Oil Mills

Location: Central Borneo

- DURA70% TENERA30%
- 4 RSPO certified factories  
4000MT/月
- 4 ISCC Japan FIT certified  
factories  
6000MT/月



Range: 60km-150km

•Capable of transporting up  
to 800MT per day

27 dump trucks with 8-9MT  
capacity

4 dump trucks with 18-20MT  
capacity

+ Arranging rental truck



## Stockpile

- Location: Kumai, Central Borneo
- Concrete area: 1Ha(10,000m<sup>2</sup>)
- Storage warehouse (with roof):  
3,000m<sup>2</sup>, can storage 2,500MT
- Total loading capacity: 15,000MT
- Screening: 16-20MT/Hour

# Conclusion of Palm Kernel Shell Logistic Route (10,000MT Expected Loading)

Transportation & loading from  
Stock pile to Jetty: 2 days



14 km for round trip

Capable of transporting  
approximately 5,000MT per day  
27 dump trucks with 8-9MT  
capacity  
4 dump trucks with 18-20MT  
capacity  
+ Arranging rental truck

Transshipment From barge to bulk

barge ship



bulk ship



- Transshipment from barge to bulk ship: 4 days
- Arranging two barges with 5,000MT loading capacity
- Arrange two excavators for each crane on a bulk ship.
- Can be loaded from two barges to a bulk ship at the same time

\*Transshipment points for bulk ships differ for each transaction.

# From Stockpile to Jetty



Stockpile Address :

Desa Sungai Rangit RT. 18, Kumai Hulu, Kumai, Kotawaringin Barat, Kalimantan Tengah - Indonesia, 74181

- The distance from stockpile to Jetty is 14 km for round trip
- Capable of transporting approximately 5,000MT per day
- 27 dump trucks with 8-9MT capacity
- 4 dump trucks with 18-20MT capacity
- + Arranging rental truck



## Stockpile/Port Enlarged View



### •Stockpile

Concrete Area:1Ha(10,000m<sup>2</sup>)

Storage warehouse (with roof): 3,000m<sup>2</sup>/2500 Tons

Total loading capacity: 15,000MT

Screening: 16-20MT/hour

Stockpile Address :

Desa Sungai Rangit RT. 18, Kumai Hulu, Kumai, Kotawaringin Barat,  
Kalimantan Tengah - Indonesia, 74181

# Photos from past transshipment to bulk ships





# PKS

## Certificate of Analysis

PARAMETER	STANDARD	RESULT		
		ADB	ARB	DB
<b>A. Total Moisture, Weight %</b>	ASTM D 3302-19	-	19.76	-
<b>B. Proximate Analysis, Weight %</b>				
Ash Content	ASTM D 3174-12	2.18	-	-
<b>C. Total Sulphur, Weight %</b>	ASTM D 4239-18e1	0.03	0.03	0.03
<b>D. Gross Calorific Value, Kcal/Kg</b>	ASTM D 5865-19	4,855	-	-
<b>E. Net Calorific Value, Kcal/Kg</b>	ASTM D 5865-19	4,441	3,853	-
<b>F. Sodium (Na in Sample), ppm</b>	ASTM D 3682-21	-	-	208
<b>G. Potassium (K in Sample), ppm</b>	ASTM D 3682-21	-	-	832
<b>H. Ultimate Analysis, Weight %</b>				
Hydrogen (H)	ASTM D 5373-16	-	-	5.49
Nitrogen (N)	ASTM D 5373-16	-	-	0.22
<b>I. Foreign Substance, Weight %</b>	ISO 3310-1	-	0.042	-
<b>J. Trace Element, ppm</b>				
Chlorine (Cl)	ASTM D 4208-19	-	-	347

Note : ARB: As Received Basis; ADB: Air Dried Basis; DB: Dried Basis