

REFERENCE NO : MY2001075 /20
 DATED : 09th JUNE 2020

ANALYSIS REPORT

As request of Messrs. **GBK INTERNATIONAL SDN.BHD.**, to carry out the instructions summarized as follows: -

On a consignment declared to us as follows: -

DESCRIPTION OF GOODS : "PALM KERNEL SHELL"
SAMPLE MARKING : "SAMPLE PALM KERNEL SHELL"
SAMPLE RECEIVED : 06-06-2020

WE REPORT AS FOLLOWS:-

One sample was submitted to independent laboratory Klang for analysis. The results are reproduced as follows: -

On Dried Basis: -

TEST PARAMETER	RESULT	UNIT	TEST METHOD
TOTAL MOISTURE (AS RECEIVED BASIS)	18.5 (One Eight Decimal Five)	%	ASTM D3302
NET CALORIFIC VALUE, NCV (AS RECEIVED BASIS)	3762 (Three Seven Six Two)	Kcal/Kg	ASTM D5865
BULK DENSITY (AS RECEIVED BASIS)	498 (Four Nine Eight)	Kg/m3	ASTM E873
GROSS CALORIFIC VALUE, GCV (AS RECEIVED BASIS)	4123 (Four One Two Three)	Kcal/kg	ASTM D5865
INHERENT MOISTURE, IM (AIR DRIED BASIS)	7.8 (Seven Decimal Eight)	%	ASTM D3173
ASH (AIR DRIED BASIS)	2.40 (Two Decimal Four Zero)	%	ASTM D3174
VOLATILE MATTER, VM (AIR DRIED BASIS)	70.53 (Seven Zero Decimal Five Three)	%	ASTM D3175
FIXED CARBON, FC (AIR DRIED BASIS)	19.27 (One Nine Decimal Two Seven)	%	ASTM D3172
TOTAL SULPHUR (AIR DRIED BASIS)	0.028 (Zero Decimal Zero Two Eight)	%	ASTM D4239
CHLORINE (AIR DRIED BASIS)	0.035 (Zero Decimal Zero Three Five)	%	ASTM D2361
SODIUM, Na (DRIED BASIS)	520 (Five Two Zero)	ppm	AAS
POTASSIUM, K (DRIED BASIS)	245 (Two Four Five)	ppm	AAS
HYDROGEN, H (DRIED BASIS)	5.99 (Five Decimal Nine Nine)	%	ASTM D5373
NITROGEN, N (DRIED BASIS)	0.38 (Zero Decimal Three Eight)	%	ASTM D5373
CARBON, C (DRIED BASIS)	54.1 (Five Four Decimal One)	%	ASTM D5373
IMPURITIES (DRIED BASIS)	0.35 (Zero Decimal Three Five)	%	SORTING

- END OF REPORT -

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Remark:-

1. This certificate reflects laboratory testing results and does not refer to any other matters based on sample submitted from customer.
2. This certificate cannot use for any Letter of Credit (LC) & any claim purposes.

This inspection has been performed on the goods for which it was requested according to our professional standards and to the best of our knowledge on the date and at the place it was performed, within the scope of instructions received. This inspection does not release seller(s) and/or supplier(s) and/or shipper(s) and/or other parties involved from their respective contractual obligations and does not prejudice the buyer(s)/receiver(s)' right to claim, under applicable law and contract, compensation from seller(s)/supplier(s)/shipper(s) regarding any defects not detected during our inspection or occurring thereafter. This inspection is also subject to COTECNA Terms and Conditions of Business 2018." (<http://www.cotecna.com/en/About-Cotecna/Terms-Conditions>). Headings and titles in this certificate/report are for reference only and the findings contained herein prevail as stated.

This certificate is only valid if presented in original and printed on security paper or issued on Cotecna's Edox system and received in its digital format. Copies of this certificate are not valid unless accompanying its original.

COTECNA TRADE SERVICES MALAYSIA SDN BHD INDEPENDENT SURVEYOR



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