



CARSURIN Laboratory

Coal, Mineral, Petrochemical

TANAH MERAH : LP-225-IDN
E : cm-tanahmerah@carsurin.com
BERAU
E : cm-berau@carsurin.com

SAMARINDA : LP-762-IDN
E : cm-samarinda@carsurin.com
PALEMBANG
E : cm-palembang@carsurin.com

BANTARBARU : LP-361-IDN
E : cm-bantarbaru@carsurin.com
JAMBI
E : cm-jambi@carsurin.com

CIKARANG : LP-415-IDN
E : cm-cikarang@carsurin.com
KENDARI
E : cm-kendari@carsurin.com

BONTANG : LP-494-IDN
E : cm-bontang@carsurin.com
MEDAN
E : cm-medan@carsurin.com

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Report No : 191161.1300

CERTIFICATE OF ANALYSIS

Description : COCONUT SHELL CHARCOAL BRIQUETTE

Manufactured / Shipper : PT. NATURA NUSANTARA PERSADA

JL. JOGJA-SOLO KM. 22
DESA JAMBU KULON, KEC. CEPER
KLATEN, JAWA TENGAH 57465

Sample Weight : 3.00 kg

Sampling Date : December 07th, 2019

Place of Sampling : PT. NATURA NUSANTARA PERSADA, WAREHOUSE

Date of Analysis : December 09th up to December 11th, 2019

Sampling

Samples were taken and prepared in accordance with SNI 19-0428-1998.

Analysis

Analysis were performed at PT Carsurin Cikarang Laboratory (accreditation by KAN / National Accreditation Committee – Indonesia for ISO 17025:2008 Cert No. LP-415-IDN) in accordance with ASTM Standard. The results of our analysis are as follows:

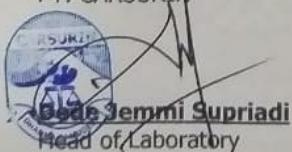
The results of our analysis are as follows:

Parameter	Unit	Results		Method
		Wet Basic	Dry Basic	
Moisture	Pct	6.25	-	ASTM D1762-84 (REAPPROVED 2013)
Ash Content	Pct	1.86	1.98	ASTM D1762-84 (REAPPROVED 2013)
Volatile Matter	Pct	13.33	14.22	ASTM D1762-84 (REAPPROVED 2013)
Fixed Carbon	Pct	78.56	83.80	By Calculation
Gross Calorific Value	Kcal/kg	7,112	7,586	D 5865-13

This certificate refers solely to the analysis in accordance with the details described herein and does not certify any other matter, and is issued without prejudice.

Jakarta, December 12th, 2019

PT. CARSURIN


Bebe Jemmi Supriadi
Head of Laboratory

**The above findings are based on sample/s only, which taken by PT. CARSURIN during the audit or inspection.
This report is valid within 90 days from date of analysis.**

| Neo SOHO Capital 28th Floor, Jl. Letjen S. Parman Kav. 28, Grogol Petamburan - Jakarta Barat 11470, Indonesia |
| P : +62.21.5022.6868 | F : +62.21.5017.1799 | E : coal@carsurin.com ; headoffice@carsurin.com | www.carsurin.com |

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This report is made and issued by the Company upon the Principal/Applicant's request and the analysis contained therein reflects the Company's findings on the samples submitted by Principal/Applicant and on samples drawn by the Company at the time and place of performing the inspection/testing only. Furthermore, the Company shall not be responsible to any parties on any actions and/or legal consequences for any transaction by using this report/analysis.