



CV. ENERGI BIO PELANGI
EST. 2008



COMPANY PROFILE

CV. ENERGI BIO PELANGI





TABLE OF CONTENT

- 01. Company Overview
- 02. Welcome Message
- 03. Our Metallurgical Product
- 04. Our Energy Alternative Product
- 05. Our Media Water Treatment Plant Product
- 06. Our Services
- 07. Our Certification Product
- 08. Our Partner Laboratory
- 09. Our Customer
- 10. Get In Touch

COMPANY OVERVIEW

About Us

Our company is a local supplier of raw materials for metallurgical products, alternative energy, and water treatment plants. By sourcing domestically, we ensure reliable, cost-effective, and sustainable solutions. We provide key inputs for metallurgical production, offer materials for alternative energy in bioenergy applications, and deliver effective filtration media for water treatment. Committed to quality and sustainability, we aim to strengthen local supply chains and contribute to the growth of these vital industries.

Vision

"Increase the added value of domestic products."

Mission

- Socializing domestic products in the fields of metallurgy, water treatment plants, and alternative energy.
- Demonstrating the efficient use of domestic products in metallurgy, water treatment plants, and alternative energy fields.
- Implementing domestic products in the foundry, water treatment plant, and alternative energy industries to support Indonesia's industrial independence.

OUR VALUES



LOYALTY

We always maintain the trust given and take responsibility in delivering quality products.



COMPETENT

We continue to learn and develop our products for your use.



ADAPTIVE

We continue to innovate and are enthusiastic in driving or facing change



COLLABORATIVE

We build synergistic cooperation

WELCOME MESSAGE



ENDANG DWI KARTINI

President Director Of
Energi Bio Pelangi

Dear Customers,

Energi Bio Pelangi was founded in **2008** to serve various industries, including **metal casting, media water treatment plants**, and small and medium enterprises that rely on **alternative energy**. Since our inception, we have grown to become an environmentally friendly product provider in Indonesia. We are committed to supporting sustainability and environmental conservation through innovative energy solutions.

JAMSON SIJABAT

Vice President Director
Of Energi Bio Pelangi

Dear Customers,

We enhance the value of domestic products, ensuring their suitability for local use and delivering the **highest-quality goods** to promote **efficient production**. Our company is committed to implementing **local metallurgical products** in Indonesia's metal casting industry while advancing sustainable solutions in **water treatment plant media** and **alternative energy** sectors.



OUR METALLURGICAL PRODUCT

ION COAL



ION Coal is a local product. It is made from coal that undergoes a process to achieve optimal fineness, allowing it to be used for metallurgical casting. **ION COAL** is a locally produced product that has received TKDN certification from the Ministry of Industry.

PRODUCTION CAPACITY: 400 MT/MONTH

ION Carbon 86 is local Carbon produced from green coke. The coke undergoes a calcination process, followed by a size adjustment to attain a fixed carbon value. This is crucial to enhancing the carbon content in metal castings. This product is commonly utilized for induction furnaces and cupola furnaces.

PRODUCTION CAPACITY: 150 MT/MONTH

ION 86 Carbon



BIO PALM KERNEL SHELL CHARCOAL



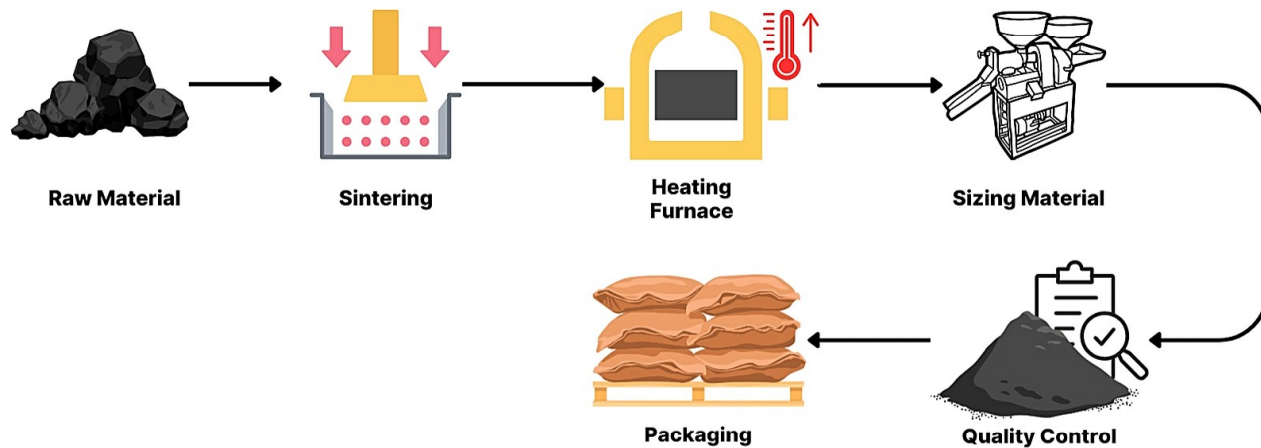
Palm Kernel Shell Charcoal is palm shell waste that goes through the carbonization process, so it has a fixed carbon (FC) value that is needed as a carbon additive for metal casting.

This product is usually used as a mixture in induction and cupola furnaces. **Palm Kernel Shell Charcoal** is available in 2 sizes, namely natural size and powder.

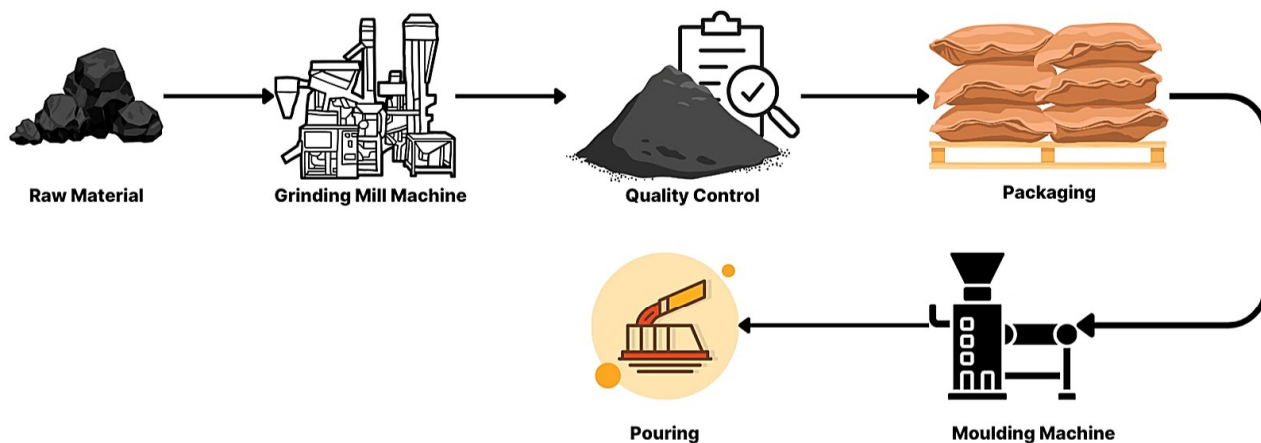
PRODUCTION CAPACITY: 200 MT/MONTH

OUR PROCESS PRODUCT

OUR PROCESS CARBON



OUR PROCESS CARBON POWDER



SPECIFICATION OUR METALLURGICAL PRODUCT

Product	Moisture (%)	Ash Content (%)	Volatile matter (%)	Fixed Carbon (%)	Total Sulfur (%)	Gross Caloric Value (Cal/g)	Sizing
ION Coal	Max 5	Max 7.5	Min 30	Min 50	Max 0.5	8233	Powder 99% (Mesh 200-300)
ION Carbon 86	Max 0.85	Max 4	Max 6	89 - 92	Max 0.5	7914	99% (0.1-4 mm)
Palm Kernell Shell Charcoal	Max 6.5	Max 5	Max 14.5	75-80	Max 0.3	6970	Natural Size 99% (2-60 mm)
	Max 6.5	Max 6.5	Max 12.5	75-80	Max 0.3	6970	Powder 99% (Mesh 200-300)

OUR ALTERNATIVE ENERGY



Carbonized briquettes are made by heating organic materials in airless conditions to remove water and gases, resulting in dense, **efficient fuel** that produces high energy. These briquettes are smokeless, environmentally friendly, and convenient for indoor use. They ignite easily, **burn for a long time**, and produce **minimal air pollution**.

PRODUCTION CAPACITY: 100 MT/MONTH

Non-carbonized briquettes are made from organic materials that retain water and gas content, resulting in **more smoke when burned**. Due to a more straightforward manufacturing process, they are **cheaper** than carbonized briquettes and are **commonly used** for specific applications, like heating chicks, where smoke is not a significant issue. These briquettes are effective for maintaining stable temperatures in chicken coops at a **low cost**.

PRODUCTION CAPACITY: 100 MT/MONTH



Hexagonal briquettes are six-sided briquettes made from **coconut shell or wood charcoal**, offering enhanced **density and combustion efficiency** due to optimal airflow. Compacted using a high-temperature briquette machine, resulting in durable and stable-burning briquettes. Known for consistent heat output, they are **versatile and customizable**, allowing users to choose the charcoal type that suits their needs. This makes them ideal for various applications, including grilling.

PRODUCTION CAPACITY: 100 MT/MONTH

OUR PRODUCT



Cube briquettes are solid, cube-shaped briquettes made from **coconut shell or wood charcoal**, which can be customized based on user preferences. They offer **stable combustion**, even heat, and minimal smoke, making them environmentally friendly. These briquettes are **energy-efficient**, versatile in raw material selection, and **easy to use** for applications like roasting or heating. Their **compact, durable shape** makes them suitable for both industrial and household use.

PRODUCTION CAPACITY: 100 MT/MONTH

SPECIFICATION OUR ALTERNATIVE ENERGY PRODUCT

Product	Moisture (%)	Ash Content (%)	Volatile matter (%)	Fixed Carbon (%)	Total Sulfur (%)	Gross Caloric Value (Cal/g)	Sizing
Carbonized briquettes	Max 5	Max 16	Max 24	50-55	Max 0.1	5731	Pillow Briquette
Non-carbonized briquettes	Max 8	Max 9.1	Max 41	40-42	Max 0.5	6010	Pillow Briquette
Hexagonal briquettes	Max 5	Max 14	Max 18	65-68	Max 0.45	6274	Hexagonal
Cube briquettes	Max 5	Max 13	Max 19	65-68	Max 0.45	6774	Cube

OUR MEDIA WATER TREATMENT PLANT

BIO ACTIVATED Carbon



Palm Kernel Shell Activated Carbon (PKS Activated Carbon) is activated carbon produced from palm kernel shells through an activation process that **increases porosity and surface area**. This activation allows the carbon to have a higher adsorption capacity, effectively absorbing various contaminants in water.

PRODUCTION CAPACITY: 100 MT/MONTH

Coconut Shell Activated Carbon is activated carbon derived from coconut shells through thermal and chemical activation. This material has a dense microporous structure and large surface area, making it very effective in filtering and absorbing various pollutants in water.

PRODUCTION CAPACITY: 100 MT/MONTH

BIO ACTIVATED Carbon



BIO ACTIVATED Carbon



Sawdust Activated Carbon is activated Carbon produced from sawdust through carbonization and activation. Due to its lightweight and malleability, this material is an economical and environmentally friendly alternative to water filtration applications.

PRODUCTION CAPACITY: 100 MT/MONTH

OUR PRODUCT

BIO ACTIVATED
Carbon



Anthracite Activated Carbon is derived from **anthracite coal**, a type of coal with a high carbon content and a **hard structure**. Through **thermal activation**, anthracite is transformed into a robust and highly effective filter medium for water **purification applications**, particularly in industrial systems and **wastewater treatment**.

PRODUCTION CAPACITY: 200 MT/MONTH

Zeolite is a natural aluminosilicate mineral with a **porous structure** and ion exchange capability. It is used in water filtration to remove contaminants such as heavy metals, ammonia, and other compounds through the process of **absorption and ion exchange**.

PRODUCTION CAPACITY: 100 MT/MONTH



Silica sand consists mainly of silica (silicon dioxide), which has delicate and hard grains. In **water purification**, silica sand is used as a **filtration** medium to **remove impurities, solid particles**, and contaminants in water.

PRODUCTION CAPACITY: 100 MT/MONTH



OUR SERVICES



One-stop service is a comprehensive solution where customers access all necessary services in one place. We manage every aspect of the export process, including **packaging, shipping, logistics,** and permits, so **businesses** can focus on preparing their goods and documents while we handle the rest.

PRODUCTION CAPACITY : 400 MT/MONTH

Repackaging services in the export industry involve modifying the packaging of products to meet **specific requirements** or standards of the destination country or to enhance product presentation. Repackaging can include tasks such as **resizing, relabeling, or customizing packaging materials** to ensure compliance with international shipping regulations and market preferences.

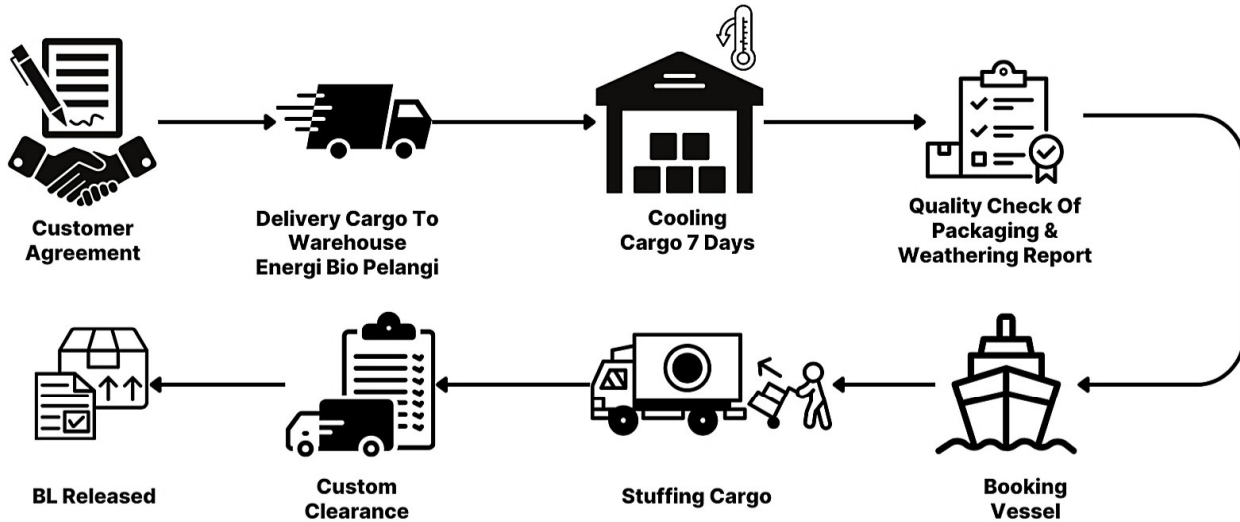
PRODUCTION CAPACITY : 200 MT/MONTH



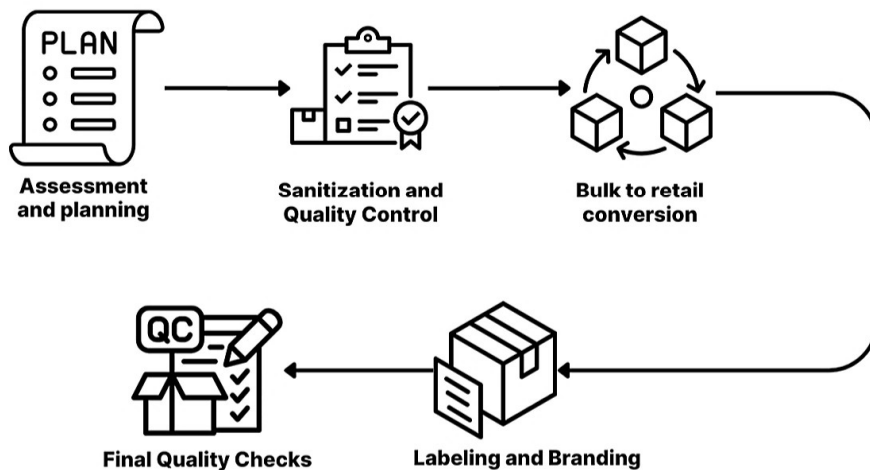
Powder grinding services are specialized processes used to reduce the **particle size of bulk materials**, transforming them into fine or **ultra-fine powders**. This size reduction is essential in various industries, including chemicals and materials science, as it can significantly influence the **solubility, bioavailability,** and overall performance of the materials.

PRODUCTION CAPACITY : 400 MT/MONTH

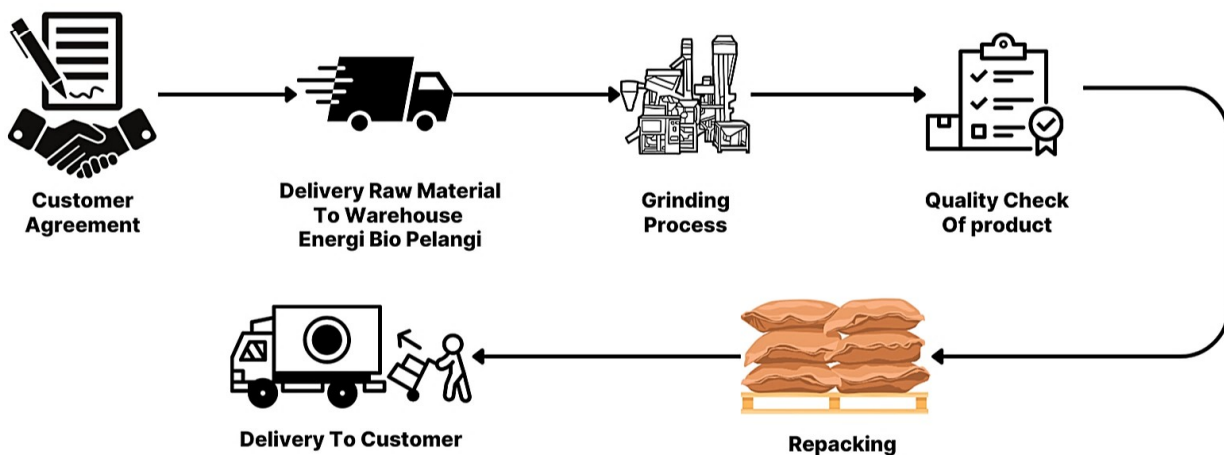
OUR PROCEDURE ONE STOP SERVICE



OUR PROCEDURE REPACKAGING SERVICE



OUR PROCEDURE POWDER GRINDING SERVICE



OUR CERTIFICATION PRODUCT

COA of ION COAL



Arbie Scientific

Trustworthy Laboratory

SUMMARY OF ANALYSIS REPORT

Report No. : 01/420622
Report On : Testing of Coal sample
Report To : CV Energi Bio Pelangi - Ibu Endang Dwi Kartini
Sample ID : D-420652
Sample Code : COAL DUST PREMIUM

SAMPLE IDENTIFICATION

Package condition: Packed properly / Sample condition: Dry / Sample color: Black / Particle size: Top size of 1 mm / Initial mass: 0,9 kg

ANALYSIS RESULTS

This is the summary of analysis report of sample received. As the history of sample is unknown so we are not responsible for any errors that may have been generated during transportation, packaging and sampling process.

Parameter	as-received basis	air-dried basis	dry basis	dry, ash-free basis	Unit
Total moisture	3,9				%
Proximate					
Moisture		4,0			%
Ash content	6,0	5,8	5,8		%
Volatile matter	35,0	35,0	38,0	38,7	%
Fixed carbon	55,1	55,2	56,2	61,3	%
Total sulfur	0,42	0,43	0,44		%
Gross calorific value	8112	8233	8528	8680	cal/g
HGI		n/a			
CSN		n/a			

COAL CLASSIFICATION

This classification is **an approximation only**, especially for coal sample either having ash content more than 20% add or the coal has already been exposed for long period of time.

Coal Classification based on coal components of sample received shown at Table 1 of the report	very high calorific value
	low moisture
	low mineral matter
	medium sulfur
	high-volatile matter
Classification Based on ASTM D309	High-volatile bituminous A

Date: 24 March 2025

Note:

For details, please have a look at the full report.

n/a = not analyzed

Arbie Yakub
Laboratory Manager

Jl. Cemara III No. 7 Bandung 40161
Phone/Fax: 022-2784798 / 2034016. Email: yak@bdg.centrin.net.id

11

COMPANY PROFILE
CV. ENERGI BIO PELANGI
EST. 2008

COA of ION Carbon 86



Report No. 03874/EOBOAR
Date: March 5, 2024



Issuing Office:
Jl. Jend. A. Yani, No. 315 Surabaya 60234, Indonesia
Phone/Facs: +62 31 8470547/8470563
Email: labsurabaya@sucofindo.co.id

REPORT OF ANALYSIS

CLIENT : CV. ENERGI BIO PELANGI
KP Cinyosog RT.002 RW.002
Burangkeng Setu

THE SAMPLE WAS SUBMITTED BY THE CLIENT WITH THE FOLLOWING IDENTIFICATION:
TYPE OF SAMPLE : CARBON RAISER CPC (CALCINED PETROLEUM COKE)
DATE OF RECEIVED : February 27, 2024
DATE OF ANALYSIS : February 28 up to March 5, 2024
TEST REQUIRED : Proximate analysis
DESCRIPTION OF SAMPLE : Form : Solid
Weight / Volume : ± 2 Kg
Packing : Carton
SAMPLE IDENTIFICATION : Carbon Raiser EBP-2224
(STATED BY CLIENT)

We have tested the sample(s) submitted, and the following results were obtained:

Parameters	Unit	AR	ADB	DB	Test Method
Total Moisture	% wt	1.18	---	---	ASTM D2961 - 17
Moisture in the Analysis Sample	% wt	---	0.83	---	ASTM D3173/D3173M - 17a
Ash Content	% wt	3.85	3.86	3.89	ASTM D3174 - 12(2018)e1
Volatile Matter	% wt	5.96	5.98	6.03	ASTM D3175 - 20
Fixed Carbon	% wt	89.01	89.33	90.08	ASTM D3172 - 13(2021)e1
Total Sulfur	% wt	0.50	0.50	0.50	ASTM D4239 - 18e1 Method A
Gross Calorific Value	Kcal/Kg	7886	7914	7980	ASTM D5865/D5865M - 19

AR : As Received ADB : Air Dried Basis DB : Dry Basis

This Certificate/report is issued under our General Terms and Conditions, copy of which is available upon request or may be accessed at www.sucofindo.co.id

Dept. Of Mineral and Coal Inspection and Testing



Iwan Sasmito

71030524000568



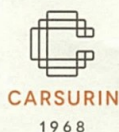
4762443



SCI-2023A

OUR CERTIFICATION PRODUCT

COA of Palm Kernell Shell Charcoal



Page No : 1 of 1
Report No : 231861.2575

REPORT OF ANALYSIS

Description : Palm Kernel Shell Charcoal
Manufactured / Shipper : CV. Energi Bio Pelangi
KP Cinyosog RT. 002 RW. 002
Burangkeng, Setu
Sample Code : Natural Size
Sample Weight : 3.00 Kgs
Received Date : December 18th, 2023
Date of Analysis : December 18th, 2023

Analysis

Analysis were performed at PT Carsurin Cikarang Laboratory (accreditation by KAN / National Accreditation Committee – Indonesia for ISO 17025:2017 Cert No. LP-415-IDN) in accordance with ASTM Standard. The results of our analysis are as follows:

Parameter	Unit	Results		Method
		Wet Basis	Dry Basis	
Moisture	%	6.05	-	ASTM D1762-84 (REAPPROVED 2021)
Ash Content	%	4.75	5.06	ASTM D1762-84 (REAPPROVED 2021)
Volatile Matter	%	13.64	14.52	ASTM D1762-84 (REAPPROVED 2021)
Fixed Carbon	%	75.56	80.42	By Calculation

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, January 03rd, 2024

PT. CARSURIN Tbk

CARSURIN
1968

Dede Jemmi Supriadi

Head of Laboratory

For verification of authenticity certificate or report, please e-mail to charcoal@carsurin.com

The below findings are based on sample/s only, which is/are submitted or supplied by client. The report is valid within 90 days from the date of analysis.



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 sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorized alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.



headoffice@carsurin.com

COA of Palm Kernell Shell Powder



CARSURIN

1968

Page No : 1 of 1

Report No : 231861.2576

REPORT OF ANALYSIS

Description : Palm Kernel Shell Charcoal
Manufactured / Shipper : CV. Energi Bio Pelangi
KP Cinyosog RT. 002 RW. 002
Burangkeng, Setu
Sample Code : Powder
Sample Weight : 3.00 Kgs
Date of Received Sample : December 18th, 2023
Date of Analysis : December 18th, 2023

Analysis

Analysis were performed at PT Carsurin Cikarang Laboratory (accreditation by KAN / National Accreditation Committee – Indonesia for ISO 17025:2017 Cert No. LP-415-IDN) in accordance with ASTM Standard. The results of our analysis are as follows:

Parameter	Unit	Results		Method
		Wet Basis	Dry Basis	
Moisture	Pct	6.41	-	ASTM D1762-84 (REAPPROVED 2021)
Ash Content	Pct	6.20	6.62	ASTM D1762-84 (REAPPROVED 2021)
Volatile Matter	Pct	11.77	12.58	ASTM D1762-84 (REAPPROVED 2021)
Fixed Carbon	Pct	75.62	80.80	By Calculation

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, January 03rd, 2024

PT. CARSURIN Tbk

CARSURIN

1968

Dede Jemmi Supriadi

Head of Laboratory

For verification of authenticity certificate or report, please e-mail to charcoal@carsurin.com

The below findings are based on sample/s only, which is/are submitted or supplied by client. This report is valid within 90 days from the date of analysis.



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 sample(s) submitted by Principal/Applicant and/or sample(s) drawn by the Company at the time and place of performing the inspection/testing only. Company shall not be liable for any changes to the results herein due to effects of weather, transport, storage or other factors outside Company's control. Furthermore, the Company shall not be responsible to any parties on any business, financial and/or legal consequences for any transaction by using this report/analysis. Any unauthorised alteration or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. This document cannot be reproduced except in full, without prior approval of the Company.



• headoffice@carsurin.com

COMPANY PROFILE
CV. ENERGI BIO PELANGI
EST. 2008

14

OUR CERTIFICATION PRODUCT

TKDN Certificate Of Coal Dust



 **Kementerian Perindustrian**
REPUBLIK INDONESIA

SERTIFIKAT TINGKAT KOMPONEN DALAM NEGERI INDUSTRI KECIL

Sesuai dengan Peraturan Menteri Perindustrian Nomor 46 Tahun 2022 tentang Ketentuan dan Tata Cara Penghitungan Nilai Tingkat Komponen Dalam Negeri untuk Industri Kecil, hasil verifikasi capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk : ION COAL - COAL DUST
Spesifikasi : BATU BARA
Nilai TKDN : 40%
Terbilang : Empat Puluh Persen

Yang telah ditandatangani oleh Kementerian Perindustrian dan berlaku 3 (tiga) tahun sejak tanggal tanda sah,
diberikan kepada:

Nama Perusahaan : CV Energi Bio Pelangi
Alamat : Kp. Cinyosog, Desa/Kelurahan Burangkeng, Kec. Setu, Kab. Bekasi, Provinsi Jawa Barat., Burangkeng, Setu, Kabupaten Bekasi, Jawa Barat
NPWP : 210705703435000
Bidang Usaha : Pembuatan Briket Batu Bara
No. Sertifikat TKDN : 369/TKDN/IK/III/2023

Jakarta, 13 Maret 2023
Kepala Pusat Peningkatan Penggunaan Produk Dalam Negeri

Nilai Kumalasari



COA of Eco Briquattes



The certificate is a rectangular document with a light blue background and a decorative border. At the top center is the logo of the Indonesian Ministry of Industry, featuring a green gear and a red gear. Below the logo, the text 'Kementerian Perindustrian REPUBLIK INDONESIA' is printed. The main title of the certificate is 'SERTIFIKAT TINGKAT KOMPONEN DALAM NEGERI INDUSTRI KECIL'. The body of the certificate contains a paragraph explaining the basis of the certification, followed by a table of product details. Below the table, there is a statement of approval and a list of company information. The date and location of issuance are provided, along with the signature of the official. A QR code is located in the bottom right corner.

Kementerian Perindustrian
REPUBLIK INDONESIA

SERTIFIKAT TINGKAT KOMPONEN DALAM NEGERI INDUSTRI KECIL

Sesuai dengan Peraturan Menteri Perindustrian Nomor 46 Tahun 2022 tentang Ketentuan dan Tata Cara Penghitungan Nilai Tingkat Komponen Dalam Negeri untuk Industri Kecil, hasil verifikasi capaian Tingkat Komponen Dalam Negeri (TKDN) adalah sebagai berikut:

Jenis Produk	: Briquettes Batu Bara / Arang
Spesifikasi	: Briket yang berbahan dasar berbagai macam dari Batu Bara / Arang yang di Bentuk menjadi Hexagonal , Dadu, Pillow
Nilai TKDN	: 38%
Terbilang	: Tiga Puluh Delapan Persen

Yang telah ditandatangani oleh Kementerian Perindustrian dan berlaku 3 (tiga) tahun sejak tanggal tanda sah,
diberikan kepada:

Nama Perusahaan	: CV Energi Bio Pelangi
Alamat	: Kp. Cinyosog, Desa/Kelurahan Burangkeng, Kec. Setu, Kab. Bekasi, Provinsi Jawa Barat., Burangkeng, Setu, Kabupaten Bekasi, Jawa Barat
NPWP	: 210705703435000
Bidang Usaha	: Pembuatan Briket Batu Bara
No. Sertifikat TKDN	: 987/TKDN/IK/IV/2023

Jakarta, 10 April 2023
Kepala Pusat Peningkatan Penggunaan Produk Dalam Negeri

Nila Kumalasari



THE HEART AND SOUL OF A COMPANY IS
CREATIVITY AND INNOVATION



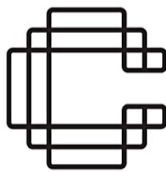
OUR PARTNER LABORATORY



PT Superintending Company of Indonesia
(SUCOFINDO)



PT Arbie Scientific



CARSURIN

1968

PT CARSURIN Tbk



Laboratorium Energi dan
Lingkungan ITS

Our Customer

International



Tsuchiyoshi Industry Co. Ltd



Mineral Technologies Inc.

Domestic

PT Octo Corindo Sarana

PT Artha Mulia Nusantara

PT Atmaja Jaya

PT Bioli Lestari

PT Waka Magma

PT Garva Berkas Usaha

PT Ispat Indo

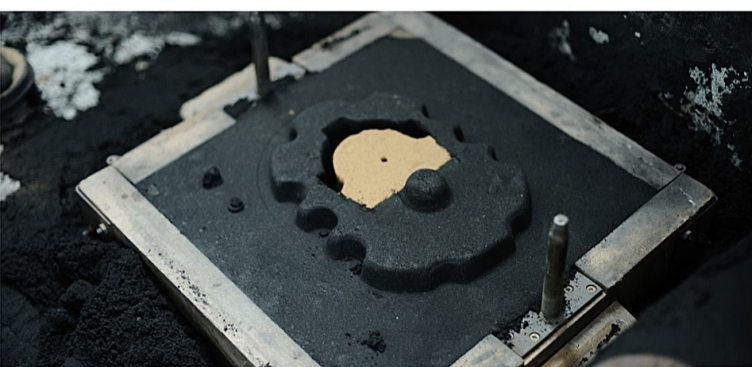
PT Walsin Lippo Industries

PT Neo Surya Pratama

PT Tanjungmas Indah Abadi

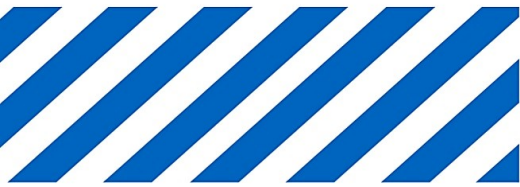
PT Makmur Meta Graha Dinamika

CV Bumi Buana Citra



COMPANY PROFILE
CV. ENERGI BIO PELANGI
EST. 2008

18



GET IN TOUCH

Workshop & Office CV. Energi Bio Pelangi.

Jl Pangkalan II, RT.02, RW. 02, Burangkeng,
Kec. Setu, Kabupaten Bekasi, Jawa Barat 17154.
Phone. +62 21 825 2399

DISCOVER OUR ONLINE SHOP!



+62 851 7305 4317
Mr. Richard



+62 851 7305 4317
Mr. Richard



energi@biopelangi.biz.id



www.energibiopelangi.com

