

**CARSURIN**

1968

231622.0084

SN : 0084/DSA-22/1/23

**CERTIFICATE OF SAMPLING AND ANALYSIS**

Commodity/Description of Goods : INDONESIAN STEAM COAL IN BULK  
 Quantity : 7,558.554 MT  
 Name of Vessel : **TB. SYUKUR 54 / BG. SYUKUR 49**  
 Shipper : CV. MITRA MINING  
 Consignee : QQ PT. ENERGY UTAMA ALAM MULIA  
 : PT. ADIPATI MAKMUR SEJAHTERA  
 : JL. TANJUNG DUREN UTARA 1 NO. 38, KEL. TANJUNG DUREN  
 : UTARA, KEC. GROGOL PETAMBURAN, KOTA ADM. JAKARTA  
 : BARAT, PROV. DKI JAKARTA 11470  
 Port of Loading : JETTY TALENTA BUMI, KEC BAKUMPAI, KAB. BARITO UTARA,  
 : KALIMANTAN SELATAN  
 Port of Discharging : JETTY PT GUNBUSTER NICKEL INDUSTRY MOROWALI UTARA,  
 : SULAWESI TENGAH  
 Notify Address : PT. GUNBUSTER NICKEL INDUSTRY  
 : INDONESIA STOCK EXCHANGE BUILD TOWER 1 LANTAI 29  
 : SUITE 2903, JL. JENDERAL SUDIRMAN KAV. 52-53, SENAYAN  
 : KEBAYORAN BARU, JAKARTA SELATAN, DKI JAKARTA  
 Date of Attendance : JANUARY 29 UP TO 30, 2023

**THIS IS TO CERTIFY :** that we have performed the inspection, sampling and analysis of the coal consignment nominated above. Gross samples were taking during barge loading. Samples were taken using ASTM Standard Methods. Samples were prepared and analyzed in accordance with ASTM Standard Methods and showed the following average results :

	<b>ADB</b>	<b>ARB</b>
Total Moisture (Weight %) D 3302-19	-	33.17
<b>Proximate Analysis :</b>		
Moisture in the analysis sample (Weight %) D 3173-17a	14.06	-
Ash Content (Weight %) D 3174-12 (R2018)e1	7.47	5.81
Volatile Matter (Weight %) D 3175-20	42.44	33.00
Fixed Carbon (Weight %) D 3172-13(2021)e1	36.03	28.02
Total Sulphur (Weight %) D 4239-18e1	0.98	0.76
Gross Calorific Value (Kcal/Kg) D 5865-19	5,619	4,370
Net Calorific Value (Kcal/Kg) D 5865-19	-	4,004
HGI (Hardgrove Grindability Index) D 409-16	34	
Particel Size (Weight %) D 4749-87 (2019)e1		
+50.	48.16	
-50	51.84	

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

Banjarbaru, February 06, 2023

**PT. CARSURIN****Kastalani****Authorized Signature**

du-ya/1/dsa/22-LB/A/0095/1/23

For verification of authenticity of certificate or reports, scan the secure QR code using the Validator App or visit [verify.carsurin.com](https://verify.carsurin.com)

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