



CARSURIN
1968

Report No. : 231122.0008
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REPORT OF LABORATORY ANALYSIS

Principal : KOPERASI PRODUSEN ENERGI BIOMASSA INDONESIA
QQ : PT. THERMAX INTERNATIONAL INDONESIA
PO Number : 1412046 - BOUGHT OUT WOOD PALLETS FOR UPRG90 PROJECT
Subject : Wood Chip Sample Analysis
Date Received : October 25th, 2023
Tested For : Proximate Analysis, Total Sulfur, and Gross Caloric Value (GCV)
Description of Sample : Sample Code : Wood Chip
 Packing : Unsealed Plastic Bag
 Weight : 1,901 Kg
Order Number : CKG. DOS. 23.0135
Date of Report : October 31st, 2023
No. of Pages Including Cover : 1 Page

THIS IS TO REPORT that upon the request of the principal, the sample received was analyzed in the laboratory in accordance with ASTM method.

The results are as follows:

PARAMETER	STANDARD	RESULTS			
		adb	ar	db	daf
A. Proximate Analysis					
Total Moisture	ASTM D3302/ D3302M-19	-	33.45	-	-
Moisture in the Analysis Sample	ASTM D 3173-17	7.37	-	-	-
Ash Content	ASTM D 3174-12	1.89	1.36	2.04	-
Volatile Matter	ASTM D 3175-20	71.33	51.25	77.01	78.61
Fixed Carbon	ASTM D 3172-13	19.41	13.94	20.95	21.39
B. Total Sulfur, Weight %	ASTM D4239-18e1	0.02	0.01	0.02	0.02
C. Gross Calorific Value, Kcal/kg	ASTM D 5865-19	4,647	3,339	5,017	5,121

Remarks :- This report refers to the tested sample only

This Report reflects our findings at time and place of analysis only and does not certify (or report) any other matters.

This Report is issued without prejudice and our responsibility is limited to the exercise of reasonable care and due diligence.

Cikarang, October 31st, 2023

PT. CARSURIN

for

CARSURIN
 Dede Jemmi S
 Laboratory Manager



For verification of authenticity of certificate or reports, please contact us at coal.sales@carsurin.com.

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 analysis only and does not certify (or report) any other matters. 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.



Certificate of Analysis