

Certificate No. 05000/EOBOAN  
Date: April 22, 2020



SUCOFINDO

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 : **PT. NIAGA INDO ALAM**  
Jl. Raya Sidogiri KM 1 RT 004 RW 004 Sungai Wetan, Pohjentrek  
Kab. Pasuruan – Jawa Timur

**THE FOLLOWING SAMPLE (S) WAS/ WERE SUBMITTED AND IDENTIFIED BY CLIENT AS :**

TYPE OF SAMPLE : **WOOD PELLET**  
DATE OF RECEIVED : April 06, 2020  
DATE OF ANALYSIS : April 07 up to 22, 2020  
TEST REQUIRED : Full analysis  
DESCRIPTION OF SAMPLE : Form : Pellet  
Weight / Volume : ± 5 Kg  
Packing : Unsealed plastic bag

SAMPLE IDENTIFICATION (STATED BY CLIENT) : **ALBASIA**

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

Parameters	Unit	AR (As Received)	ADB (Air Dried Basis)	Test Method
Total Moisture	% wt	5.87	---	ASTM D 2961 – 17
Ash Content	% wt	1.13	1.20	ASTM D 3174 – 18
Volatile Matter	% wt	78.24	83.12	ASTM D 3175 – 18
Fixed Carbon	% wt	14.76	15.68	ASTM D 3172 – 13
Total Sulfur	% wt	0.14	0.15	ASTM D 4239 – 18
Gross Calorific Value	Kcal/Kg	4484	4764	ASTM D 5865 – 19
Nett Calorie Value	Kcal/Kg	4185		ASTM D 5865 – 19

Parameters	Unit	Test Result	Test Method
Bulk Density	Kg/m <sup>3</sup>	658	ASTM D 1895
Chlorine (Cl <sub>2</sub> )	% wt	< 0.01	ASTM D 7359 - 18

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](http://www.sucofindo.co.id)

Dept. of Commercial 3 – Coal and Minerals



Esa Bagas Piyambodo

7103052000847



3468562



07

Certificate No. 12810/EOBOAN  
Date: November 6, 2020



**SUCOFINDO**  
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 : **PT. NIAGA INDO ALAM**  
Jl. Raya Sidogiri KM 1 RT 004 RW 004 Sungli Wetan, Pohjentrek  
Kab. Pasuruan – Jawa Timur

THE FOLLOWING SAMPLE (S) WAS/ WERE SUBMITTED AND IDENTIFIED BY CLIENT AS :

TYPE OF SAMPLE : **WOOD PELLET**  
DATE OF RECEIVED : October 21, 2020  
DATE OF ANALYSIS : October 22 up to November 05, 2020  
TEST REQUIRED : Mean analysis  
DESCRIPTION OF SAMPLE : Form : Pellet  
Weight / Volume : ± 1 Kg  
Packing : Unsealed plastic bag

SAMPLE IDENTIFICATION (STATED BY CLIENT) : **ACACIA NILOTICA**

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

Parameters	Unit	AR (As Received )	DB (Dry Basis)	Test Method
Total Moisture	% wt	6.09	---	ASTM D 2961 – 17
Ash Content	% wt	2.92	3.11	ASTM D 3174 – 18
Volatile Matter	% wt	73.11	77.85	ASTM D 3175 – 18
Fixed Carbon	% wt	17.88	19.04	ASTM D 3172 – 13
Total Sulfur	% wt	0.12	0.13	ASTM D 4239 – 18
Gross Calorific Value	Kcal/Kg	4244	4519	ASTM D 5865 – 19

Parameters	Unit	Test Result	Test Method
Bulk Density	Kg/m <sup>3</sup>	575	ASTM D 1895
Chlorine (Cl <sub>2</sub> )	% wt	0.01	ASTM D 7359 - 18

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](http://www.sucofindo.co.id)

Dept. of Commercial 3 - Coal and Minerals



Gusti Nurrah Arya Wijaya

7103052002368



3580514