



Issuing Office: Jl. Raya Pasar Minggu Kav. 34, Jakarta 12780, Indonesia Phone/Facs: +62 21 7983666/7983888 Email: min.pst@sucofindo.co.id

CERTIFICATE OF SAMPLING AND ANALYSIS

VESSEL MV. MALAKAND FROM Taboneo, Indonesia

Jimah East Power, Malaysia TO SHIPPER PT ADARO INDONESÍA Menara Karya 22nd - 23rd Floor

Jl. H.R. Rasuna Said Blok X-5 Kav. 1-2

Jakarta 12950 Indonesia

BUYER TNB FUEL SERVICES SDN BHD.

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA, JALAN DAMANSARA, 60000 KUALA LUMPUR, MALAYSIA

CARGO Coal

DESCRIPTION Envirocoal In Bulk

75,500 MT WEIGHT

November 16, 2018 up to November 19, 2018 LOADING DATES

SAMPLING : Samples on a lot basis were drawn from the mechanical sampling

system during vessel loading in accordance with ISO Standard.

Size test carried out in accordance with ISO Standards "Higher rank SIZING

Coal-size analysis "showed that 20.7 % were between 31.5 and 50 mm, 4.7 % were above 50 mm, and 19.7 % were below 3 mm, and 16.6 %

were below 2 mm

ANALYSIS Results of the analysis of the samples withdrawn as above and

analyzed in accordance with ISO Standards except for HGI which was

analyzed in accordance with ASTM Standards.

Parameters		Unit	l est Result
Total Moisture	(as received basis)	%	30.1
Inherent Moisture	(air dried basis)	%	18.0
Ash	(as received basis)	%	1.8
Volatile Matter	(as received basis)	%	34.7
Fixed Carbon	(as received basis)	%	33.4
Total Sulfur	(as received basis)	%	0.11
Gross Calorific Value (Gross)	(as received basis)	Kcal/kg	4746
Nitrogen	(dry basis)	%	1.09
Grindability (HGI)	,	:	45

Ash Fusion Temperature :	Reducing Atmosphere		Oxidizing Atmosphere	
Deformation	1180	°C	1250	°C
Hemisphere	1210	°C	1280	°C
Flow	1220	°C	1290	°C

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Dept. of Coal Inspection nawan P





Certificate No. 15269/COAAAL Date: November 21, 2018



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CERTIFICATE OF SAMPLING AND ANALYSIS

VESSEL : MV. MALAKAND FROM : Taboneo, Indonesia

TO : Jimah East Power, Malaysia SHIPPER : PT. ADARO INDONESIA

Menara Karya 22nd – 23rd Floor

JI. H.R. Rasuna Said Blok X-5 Kav. 1-2

Jakarta 12950, Indonesia

BUYER : TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA, JALAN DAMANSARA, 60000 KUALA LUMPUR, MALAYSIA

CARGO : Coa

DESCRIPTION : Envirocoal In Bulk

WEIGHT : 75,500 MT

LOADING DATES : November 16, 2018 up to November 19, 2018

This Certificate is supplementary to our Certificate of Sampling and analysis No. 15268/COAAAL dated November 21, 2018

SAMPLING : Samples on a lot basis were drawn from the mechanical sampling

system during vessel loading in accordance with ISO Standard.

SIZING : Size test carried out in accordance with ISO Standards "Higher rank

Coal-size analysis "showed that 20.7 % were between 31.5 and 50 mm, 4.7 % were above 50 mm, and 19.7 % were below 3 mm, and

16.6 % were below 2 mm

ANALYSIS : Results of the analysis of the samples withdrawn as above and

analyzed in accordance with ISO Standards except for HGI which

was analyzed in accordance with ASTM Standards.

Proximate Analysis:

Inherent Moisture	(air dried basis)	:	18.0	%
Ash	(air dried basis)	:	2.1	%
Volatile Matter	(as received basis)	:	34.7	%
Fixed Carbon	(as received basis)	:	33.4	%
Total Sulfur	(as received basis)	:	0.11	%
Fuel Ratio	(as received basis)	:	0.96	

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Dept. of Coal Inspection

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Attachment

Certificate No. 15269/COAAAL Date: November 21, 2018



Page 1 of 1

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ULTIMATE ANALYSIS: - Carbon - Hydrogen - Nitrogen - Sulfur - Oxygen - Phosphorus - Chlorine - Sodium	(dry ash free basis) (as received basis) (as received basis) (as received basis)	% % % % % %	73.8 4.86 1.11 0.16 20.07 0.002 0.01 0.005
- Abrasive Index		mg/kg	6
Ash Analysis: (Dry Basis) - SiO ₂ - Al ₂ O ₃ - Fe ₂ O ₃ - TiO ₂ - CaO - MgO - K ₂ O - Na ₂ O - P ₂ O ₅ - Mn ₃ O ₄ - SO ₃ - Undetermined	(dry basis)	% % % % % % % %	33.87 11.02 18.05 0.51 18.99 8.50 0.79 0.57 0.29 0.29 6.67 0.45
Size Distribution: 0 x 50 mm 0 x 3 mm 0 x 2 mm 0 x 0.5 mm		% % % %	95.4 19.7 16.6 6.0





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Certificate No. 15270/COAAAL Date: November 21, 2018



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CERTIFICATE OF SAMPLING AND ANALYSIS

VESSEL : MV. MALAKAND FROM : Taboneo, Indonesia

TO : Jimah East Power, Malaysia SHIPPER : PT. ADARO INDONESIA

Menara Karya 22nd – 23rd Floor

Jl. H.R. Rasuna Said Blok X-5 Kav. 1-2

Jakarta 12950, Indonesia

BUYER : TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA,

JALAN DAMANSARA, 60000 KUALA LUMPUR, MALAYSIA

CARGO : Coa

DESCRIPTION : Envirocoal In Bulk

WEIGHT : 75,500 MT

LOADING DATES : November 16, 2018 up to November 19, 2018

Results of the analysis of the samples withdrawn as above and analyzed in accordance with ASTM Standards except for Boron which was analyzed in accordance with ISO Standards.

Coal Specifications: Test Result

Mercury, ppm in coal 0.02

Cadmium, ppm in coal 0.03

Boron, ppm in coal 33

This Certificate is supplementary to our Certificate of Sampling and analysis No. 15268/COAAAL dated November 21, 2018

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

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Certificate No. 15026/COAAAL Date: November 21, 2018



Issuing Office: Ji. Raya Pasar Minggu Kav. 34, Jakarta 12780, Indonesia Phone/Facs: +62 21 7983666/7983888 Email: min.pst@sucofindo.co.id

COAL QUALITY REJECTION LIMITS

VESSEL

MV. MALAKAND

FROM

Taboneo, Indonesia

TO

Jimah East Power, Malaysia

SHIPPER

: PT. ADARO INDONESIA

Menara Karya 22nd – 23rd Floor

JI. H.R. Rasuna Said Blok X-5 Kav. 1-2

Jakarta 12950, Indonesia

BUYER

TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA, JALAN DAMANSARA, 60000 KUALA LUMPUR, MALAYSIA

CARGO

Coal

DESCRIPTION

Envirocoal In Bulk

WEIGHT

75,500 MT

LOADING DATES

November 16, 2018 up to November 19, 2018

Samples on a lot basis were drawn from mechanical sampling system during vessel loading in accordance with ISO Standard. Samples prepared and analyzed in accordance to ISO Standards, except HGI in ASTM Standard, showed the following average results:

Properties	Value as perCertificate of Sampling Analysis		Rejection Limit
Gross Calorific Value (Gross) (as received basis)	4746	Kcal / kg	Below 4600 kcal/kg
Total Moisture (as received basis)	30.1	%	Exceeds 32%
Ash Content (as received basis)	1.8	%	Exceeds 4.5%
Sulfur Content (as received basis)	0.11	%	Exceeds 0.25%
Volatile Matter (as received basis)	34.7	%	Below 32.2%
Hardgrove Grindability Index	45		Below 40 index points
Ash Fusion Temperature (reducing atmosphere - IDT)	1180	°C	Below 1100 °C
% of coal size more than 50 mm of total size distribution	4.7	%	Not more than 5%
% of coal size less than 3 mm fines of total size distribution	19.7	%	Not more than 30%
% of coal size less than 2 mm fines of total size distribution	16.6	%	Not more than 27%

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Certificate No. 15027/COAAAL Date: November 21, 2018



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CERTIFICATE OF WEIGHT

CONSIGNEE

: TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC

DAMANSARA,

JALAN DAMANSARA, 60000 KUALA LUMPUR.

MALAYSIA

SHIPPER

PT. ADARO INDONESIA

Menara Karya 22nd – 23rd Floor

Jl. H.R. Rasuna Said Blok X- 5 Kav. 1-2

Jakarta 12950, Indonesia

CARGO

: Coal

DESCRIPTION OF GOODS

Envirocoal In Bulk

QUANTITY / WEIGHT DECLARED

: 75,500 MT

NUMBER AND TYPE OF PACKAGES

: In Bulk

MEANS OF CONVEYANCE

By Sea going Vessel

REMARK

The Consignment described above has been loaded into holds of "MV. MALAKAND" where by the total weight of cargo carried was determined by draft survey

is as follows:

Packing

: In Bulk

Weight

: 75,500 MT

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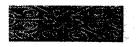
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Dept. of Coal Inspection

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Certificate No. 15028/COAAAL Date: November 21, 2018



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HOLD CLEANLINESS INSPECTION CERTIFICATE

VESSEL

MV. MALAKAND

FROM

: Taboneo, Indonesia

TO SHIPPER Jimah East Power, Malaysia PT. ADARO INDONESIA

SHIPPER

Menara Karya 22nd – 23rd Floor

Jl. HR. Rasuna Said Blok X- 5, Kav. 1 - 2

Jakarta 12950, Indonesia

BUYER

TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA,

JALAN DAMANSARA, 60000 KUALA LUMPUR,

MALAYSIA

CARGO

Coal

DESCRIPTION OF GOODS

Envirocoal In Bulk

CARGO HOLDS WEIGHT No. 1 to No. 7 Holds 75,500 Metric Tons

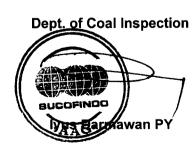
INSPECTION

We Inspected the above mentioned cargo holds prior to the vessel loading and found cargo spaces *No. 1 to No. 7 Holds* empty, clean, dry and free from previous cargo, and suitable in all respect

to receive the cargo of coal.

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Certificate No. 15029/COAAAL Date: November 21, 2018



Issuing Office: Jl. Raya Pasar Minggu Kav. 34, Jakarta 12780, Indonesia Phone/Facs: +62 21 7983666/7983888 Email: min.pst@sucofindo.co.id

CERTIFICATE OF ORIGIN

VESSEL

MV. MALAKAND

FROM

Taboneo, Indonesia

TO

Jimah East Power, Malaysia

SHIPPER

PT. ADARO INDONESIA Menara Karya 22nd – 23rd Floor

Jl. HR. Rasuna Said Blok X- 5, Kav. 1 - 2

Jakarta 12950 , Indonesia

BUYER

TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA,

JALAN DAMANSARA, 60000 KUALA LUMPUR,

MALAYSIA

CARGO

Coal

DESCRIPTION OF GOODS

Envirocoal In Bulk

WEIGHT

75,500 MT

We hereby certify that the coal mined and shipped is of Indonesian Origin.

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SUCOFINOO Jamawan PY

Dept. of Coal Inspection

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Certificate No. 15030/COAAAL Date: November 21, 2018



Issuing Office: Jl. Raya Pasar Minggu Kav. 34, Jakarta 12780, Indonesia Phone/Facs: +62 21 7983666/7983888 Email: min.pst@sucofindo.co.id

CERTIFICATE OF DRAFT SURVEY

VESSEL

: MV. MALAKAND

FROM

Taboneo, Indonesia

TO

: Jimah East Power, Malaysia

SHIPPER

PT. ADARO INDONESIA

Menara Karya 22nd – 23rd Floor

JI. HR. Rasuna Said Blok X- 5, Kav. 1 - 2

Jakarta 12950, Indonesia

BUYER

TNB FUEL SERVICES SDN BHD,

LEVEL 11, MENARA GLOMAC, GLOMAC DAMANSARA,

JALAN DAMANSARA, 60000 KUALA LUMPUR,

MALAYSIA

CARGO

Coal

DESCRIPTION OF GOODS

Envirocoal In Bulk

WEIGHT

75,500 MT

Findings

Ascertainment of weight was done by draught reading of ship's prior to and after loading and converted to ship's

displacement table and sounding table available on board

Net Displacement light (Initial on November 16, 2018)

10,929.000 M / tons

Net Displacement loaded (Final on November 19, 2018)

86,429.306 M / tons

Quantity of consignment

75,500.306 M / tons

Rounded to :

75,500 M / tons

The Attachment available is an integral part of this certificate.

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Dept. of Coal Inspection

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Attachment

Certificate No. 15030/COAAAL

Date: November 21, 2018

Page 1 of 1



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CARGO QUANTITY CALCULATION TABLE

		Initial Survey	Final Survey	
		16/11/2018	19/11/2018	
Forward mean draft, corrected, m	: _	4.929	14.275	
After mean draft, corrected, m	:	7.116	14.275	
Midship mean draft, corrected, m	:	5.940	14.365	
Fore and After mean, m	:	6.0225	14.275	
Mean of means, m	:	5.98125	14.320	
Mean of means corr. for deformation, m	:	5.960625	14.3425	
Corresponding displacement, m.t.	:	34,040.481	88,227.087	
Trim correction, m.t.	:	-423.477	0.000	
Disp. Corrected for trim, m.t.	:	33,617.004	88,227.087	
Water density, Kg/I.	:	1.018	1.019	
Water density correction, m.t.	:	-229.580	-516.451	
Disp. Corrected for density, m.t.	:	33,387.424	87,710.636	
Total deductibles (oil,water,ballast etc.), m.t.	:	22,458.424	1,281.330	
Net displacement, m.t.	:	10,929.000	86,429.306	
By difference, total cargo loaded, m.t.	:	75,500.306		
Rounded to,	:	75,500 M	etric Tons	
See also attached schedule.				

Issued without prejudice.

Vessel: MV. MALAKAND, PAKISTAN Flag

			Initial Survey 16/11/2018 (05:00 Hrs LT)		Final Survey 19/11/2018 (07:00 Hrs LT)	
Actual Draft			Port	Starboard	Port	Starboard
Forward, m After, m Midships, m		: : :	4.98 7.02 6.00	4.94 6.98 5.88	14.28 14.28 14.38	14.27 14.27 14.35
Deductibles						
Diesel Oil r		: : : : : : : : : : : : : : : : : : : :	7	05.594 06.000 757.300 89.530		160.000 185.000 746.800 189.530
			22,4	158.424	1,	281.330
Lightship wt Apparent Cons	stant, wt.	:		579.00 m.t. 350.00 m.t.		

REMARKS:

- 1. Tank Calibration Soundings and Displacement Table / Hydrostatic Curves provided on board.
- 2.Original on board working sheet counter signed or acknowledge by Chief Officer / Master.

3. During Draft Survey carried out at Banjarmasin, Indonesia as loading port.

The state of sea: Swell Condition about 1.0 mtr during final draught survey





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