

Certificate No. 13996/COAAAL  
Date: October 26, 2018



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

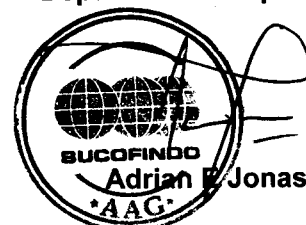
## CERTIFICATE OF SAMPLING AND ANALYSIS

VESSEL : MV. BULK PARAISO  
FROM : Taboneo, Indonesia  
TO : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI  
SEMBILAN, MALAYSIA  
SHIPPER : PT. ADARO INDONESIA  
Menara Karya 22<sup>nd</sup> – 23<sup>rd</sup> 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  
WEIGHT : 49,500 MT  
LOADING DATES : October 19, 2018 up to October 24, 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 22.4 % were between 31.5 and 50 mm,  
4.4 % were above 50 mm, and 19.4 % were below 3 mm, and 16.5 %  
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ANALYSIS : Results of the analysis of the samples withdrawn as above and  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	Test Result
Total Moisture	( as received basis )	%	29.8
Inherent Moisture	( air dried basis )	%	18.0
Ash	( as received basis )	%	2.0
Volatile Matter	( as received basis )	%	35.1
Fixed Carbon	( as received basis )	%	33.1
Total Sulfur	( as received basis )	%	0.11
Gross Calorific Value (Gross)	( as received basis )	Kcal/kg	4766
Nitrogen	( dry basis )	%	0.98
Grindability ( HGI )		:	45
Ash Fusion Temperature :	Reducing Atmosphere	Oxidizing Atmosphere	
Deformation	1180 °C	1240 °C	
Hemisphere	1200 °C	1260 °C	
Flow	1210 °C	1270 °C	

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Dept. of Coal Inspection



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Certificate No. 13997/COAAAL

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## CERTIFICATE OF SAMPLING AND ANALYSIS

VESSEL : MV. BULK PARAISO  
FROM : Taboneo, Indonesia  
TO : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI  
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SHIPPER : PT. ADARO INDONESIA  
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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 : 49,500 MT  
LOADING DATES : October 19, 2018 up to October 24, 2018

This Certificate is supplementary to our Certificate of Sampling and analysis No. 13996/COAAAL dated October 26, 2018

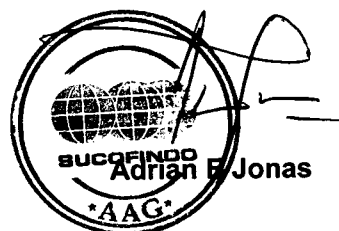
SAMPLING : Samples on a lot basis were drawn from the mechanical sampling system during vessel loading in accordance with ISO Standard.  
SIZING : Size test carried out in accordance with ISO Standards "Higher rank Coal-size analysis "showed that 22.4 % were between 31.5 and 50 mm, 4.4 % were above 50 mm, and 19.4 % were below 3 mm, and 16.5 % 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 )	:	2.3	%
Volatile Matter	( as received basis )	:	35.1	%
Fixed Carbon	( as received basis )	:	33.1	%
Total Sulfur	( as received basis )	:	0.11	%
Fuel Ratio	( as received basis )	:	0.94	

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Certificate No. 13998/COAAAL

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## COAL QUALITY REJECTION LIMITS

VESSEL : MV. BULK PARAISO  
FROM : Taboneo, Indonesia  
TO : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI  
SEMBILAN, MALAYSIA  
SHIPPER : PT. ADARO INDONESIA  
Menara Karya 22<sup>nd</sup> – 23<sup>rd</sup> 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  
WEIGHT : 49,500 MT  
LOADING DATES : October 19, 2018 up to October 24, 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 :

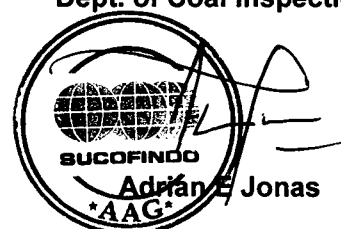
Properties	Value as per Certificate of Sampling Analysis		Rejection Limit
Gross Calorific Value (Gross) (as received basis)	4766	Kcal / kg	Below 4600 kcal/kg
Total Moisture ( as received basis)	29.8	%	Exceeds 32%
Ash Content (as received basis)	2.0	%	Exceeds 4.5%
Sulfur Content (as received basis)	0.11	%	Exceeds 0.25%
Volatile Matter (as received basis)	35.1	%	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	4.4	%	Not more than 5%
% of coal size less than 3 mm fines of total size distribution	19.4	%	Not more than 30%
% of coal size less than 2 mm fines of total size distribution	16.5	%	Not more than 27%

Certificate of Sampling and Analysis No. 13996/COAAAL Dated October 26, 2018 also refers.

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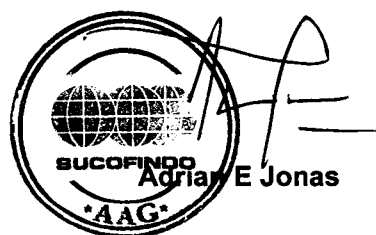
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## CERTIFICATE OF WEIGHT

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	:	49,500 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. BULK PARAISO " where by the total weight of cargo carried was determined by draft survey is as follows : Packing : In Bulk Weight : 49,500 MT

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Certificate No. 14000/COAAAL  
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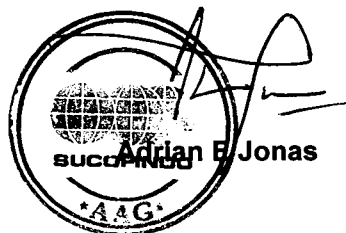
## HOLD CLEANLINESS INSPECTION CERTIFICATE

**VESSEL** : MV. BULK PARAISO  
**FROM** : Taboneo, Indonesia  
**TO** : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI  
SEMBILAN, MALAYSIA  
**SHIPPER** : PT. ADARO INDONESIA  
Menara Karya 22<sup>nd</sup> – 23<sup>rd</sup> 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 OF GOODS** : Envirocoal In Bulk  
**CARGO HOLDS** : No. 1 to No. 5 Holds  
**WEIGHT** : 49,500 Metric Tons  
**INSPECTION** : We Inspected the above mentioned cargo holds prior to the vessel  
loading and found cargo spaces *No. 1 to No. 5 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. 14001/COAAAL  
Date: October 26, 2018



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## CERTIFICATE OF ORIGIN

VESSEL : MV. BULK PARAISO  
FROM : Taboneo, Indonesia  
TO : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI  
SEMILAN, MALAYSIA  
SHIPPER : PT. ADARO INDONESIA  
Menara Karya 22<sup>nd</sup> – 23<sup>rd</sup> 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 OF GOODS : Envirocoal In Bulk  
WEIGHT : 49,500 MT

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

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Certificate No. 14002/COAAAL  
Date: October 26, 2018



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## CERTIFICATE OF DRAFT SURVEY

VESSEL : MV. BULK PARAISO  
FROM : Taboneo, Indonesia  
TO : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI  
SEMBILAN, MALAYSIA  
SHIPPER : PT. ADARO INDONESIA  
Menara Karya 22<sup>nd</sup> – 23<sup>rd</sup> 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 OF GOODS : Envirocoal In Bulk  
WEIGHT : 49,500 MT

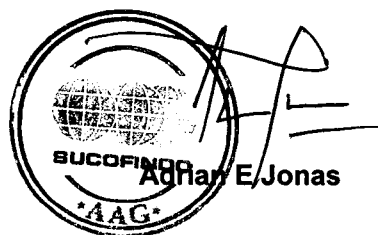
Findings : Ascertainment of weight was done by draught reading of  
ship's prior to and after loading and converted to ship's  
displacement table and sounding table available on board

Net Displacement light (Initial on October 18, 2018) : 8,802.445 M / tons  
Net Displacement loaded (Final on October 24, 2018) : 58,302.560 M / tons  
Quantity of consignment : 49,500.115 M / tons  
Rounded to : 49,500 M / tons

The Attachment available is an integral part of this certificate.

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Dept. of Coal Inspection



Adrian E. Jonas

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## CARGO QUANTITY CALCULATION TABLE

	Initial Survey 18/10/2018	Final Survey 24/10/2018
Forward mean draft, corrected, m	3.883	11.696
After mean draft, corrected, m	6.333	12.030
Midship mean draft, corrected, m	5.010	11.855
Fore and After mean, m	5.108	11.863
Mean of means, m	5.059	11.859
Mean of means corr. For deformation, m	5.0345	11.857
Corresponding displacement, m.t	23,640.500	59,504.500
Trim correction, m.t	-417.096	19.835
Disp. Corrected for trim, m.t	23,223.404	59,524.335
Water density, Kg/l	1.022	1.021
Water density correction, m.t	-67.971	-232.290
Disp. Corrected for density, m.t.	23,155.433	59,292.045
Total deductibles (oil, water, ballast etc.), m.t.	14,352.988	989.485
Net displacement, m.t	8,802.445	58,302.560
By difference, total cargo loaded, m.t	49,500.115	
Rounded to,	<b>49,500</b>	Metric Tons

See also attached schedule.

Issued without prejudice.

Vessel : MV. BULK PARAISO, HONGKONG Flag

		Initial Survey 18/10/18 (21:00 Hrs LT)		Final Survey 24/10/18 (18:30 Hrs LT)	
Actual Draft		Port	Starboard	Port	Starboard
Forward, m	:	3.85	3.98	11.70	11.70
After, m	:	6.20	6.24	12.05	11.98
Midships, m	:	4.78	5.24	11.89	11.82
<b>Deductibles</b>					
Ballast Water	m.t.	13,396.928		96.325	
Fresh Water	m.t.	134.000		95.000	
Fuel Oil	m.t.	747.860		724.460	
Diesel Oil	m.t.	74.200		73.700	
Lube Oil	m.t.	-		-	
Others	m.t.	-		-	
		<b>14,352.988</b>		<b>989.485</b>	
Lightship	wt	8,462.000	m.t.		
Apparent Constant, .	wt	340.445	m.t.		

### REMARKS :

1. Tank Calibration Soundings and Displacement Table / Hydrostatic Curves provided on board.
2. Original on board working sheet counter signed or acknowledged by Chief Officer / Master.
3. Draft Survey carried out at Taboneo, South Kalimantan, Indonesia as loading port.  
The state of sea : Swell sea condition about 1.5 m – 2.0 m during final draught survey.



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