

Certificate No. 00000/COAAAL

Date: October 15, 2018



Issuing Office: Jl. 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. AS VICTORIA FROM : Taboneo, Indonesia

: JIMAH EAST POWER STATION, PORT DICKSON, NEGERI TO

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

: TNB FUEL SERVICES SDN BHD, **BUYER** 

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

**CARGO** Coal

DESCRIPTION Envirocoal In Bulk

49,500 MT WEIGHT

October 8, 2018 up to October 13, 2018 LOADING DATES

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<br>Sampling Analysis |           | Rejection Limit       |
|--|---|-----------|-----------------------|
| Gross Calorific Value (Gross) (as received basis)              | 4760  | Kcal / kg | Below 4600 kcal/kg    |
| Total Moisture ( as received basis)                            | 29.7  | %         | Exceeds 32%           |
| Ash Content (as received basis)                                | 2.0   | %         | Exceeds 4.5%          |
| Sulfur Content (as received basis)                             | 0.13  | %         | Exceeds 0.25%         |
| Volatile Matter (as received basis)                            | 35.0  | %         | Below 32.2%           |
| Hardgrove Grindability Index                                   | 46  |           | Below 40 index points |
| Ash Fusion Temperature (reducing atmosphere - IDT)             | 1190  | °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 | 19.3  | %         | Not more than 30%     |
| % of coal size less than 2 mm fines of total size distribution | 16.5  | %         | Not more than 27%     |

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**Dept. of Coal Inspection** 

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Certificate No. 13564/COAAAL Date: October 15, 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. AS VICTORIA 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

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 : 49,500 MT

LOADING DATES : October 8, 2018 up to October 13, 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 21.8 % were between 31.5 and 50 mm, 4.4 % were above 50 mm, and 19.3 % 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 ) | %       | 29.7        |
| Inherent Moisture             | ( air dried basis )   | %       | 18.0        |
| Ash                           | ( as received basis ) | %       | 2.0         |
| Volatile Matter               | ( as received basis ) | %       | 35.0        |
| Fixed Carbon                  | ( as received basis ) | %       | 33.3        |
| Total Sulfur                  | ( as received basis ) | %       | 0.13        |
| Gross Calorific Value (Gross) | ( as received basis ) | Kcal/kg | 4760        |
| Nitrogen                      | ( dry basis )         | %       | 0.98        |
| Grindability ( HGI )          |                       | :       | 46          |

| Ash Fusion Temperature : |  | Reducing<br>Atmosphere |    | Oxidizing<br>Atmosphere |    |
|--------------------------|--|------------------------|----|-------------------------|----|
| Deformation              |  | 1190                   | °C | 1260                    | °C |
| Hemisphere               |  | 1210                   | °C | 1280                    | °C |
| Flow                     |  | 1220                   | °C | 1290                    | °C |

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Certificate No. 13565/COAAAL Date: October 15, 2018



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# CERTIFICATE OF SAMPLING AND ANALYSIS

VESSEL : MV. AS VICTORIA 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

Jł. 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 8, 2018 up to October 13, 2018

This Certificate is supplementary to our Certificate of Sampling and analysis No. 13564/COAAAL dated October 15, 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 21.8 % were between 31.5 and 50 mm, 4.4 % were above 50 mm, and 19.3 % 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 ) 35.0 % Fixed Carbon ( as received basis ) % 33.3 **Total Sulfur** ( as received basis ) 0.13 % Fuel Ratio ( as received basis ) 0.95

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Attachment

Certificate No. 13565/COAAAL

Date: October 15, 2018



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| ULTIMATE ANALYSIS: - Carbon - Hydrogen - Nitrogen - Sulfur - Oxygen - Phosphorus - Chlorine - Sodium   | ( dry ash free basis ) ( as received basis ) ( as received basis )                             | %<br>%<br>%<br>%<br>%<br>%           | 74.2<br>5.12<br>1.00<br>0.19<br>19.49<br>0.003<br>0.01<br>0.004                                  |
|--|---|--------------------------------------|--|
| - Abrasive Index   |   | mg/kg                                | 7  |
| Ash Analysis: (Dry Basis) - SiO <sub>2</sub> - Al <sub>2</sub> O <sub>3</sub> - Fe <sub>2</sub> O <sub>3</sub> - TiO <sub>2</sub> - CaO - MgO - K <sub>2</sub> O - Na <sub>2</sub> O - P <sub>2</sub> O <sub>5</sub> - Mn <sub>3</sub> O <sub>4</sub> - SO <sub>3</sub> - Undetermined | ( dry basis ) | %<br>%<br>%<br>%<br>%<br>%<br>%<br>% | 36.64<br>13.70<br>16.05<br>0.77<br>15.86<br>7.37<br>0.96<br>0.45<br>0.31<br>0.24<br>7.21<br>0.44 |
| Size Distribution:  0 x 50 mm 0 x 3 mm 0 x 2 mm 0 x 0.5 mm   |   | %<br>%<br>%<br>%                     | 95.6<br>19.3<br>16.5<br>6.3  |





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Date: October 15, 2018



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# CERTIFICATE OF SAMPLING AND ANALYSIS

**VESSEL** : MV. AS VICTORIA FROM Taboneo, Indonesia

TO JIMAH EAST POWER STATION, PORT DICKSON, NEGERI

SEMBILAN, MALAYSIA

: PT. ADARO INDONESIA SHIPPER

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

TNB FUEL SERVICES SDN BHD, **BUYER** 

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 8, 2018 up to October 13, 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** 0.02 Mercury ppm, in coal Cadmium ppm, in coal 0.04 37 Boron ppm, in coal

This Certificate is supplementary to our Certificate of Sampling and analysis No. 13564/COAAAL dated October 15, 2018

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**Dept. of Coal Inspection** 

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Certificate No. 13569/COAAAL

Date: October 15, 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. AS VICTORIA 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 8, 2018 up to October 13, 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:

| Parameters                  | Unit    | Actual Analysis Result |  |  |
|-----------------------------|---------|------------------------|--|--|
| Total Moisture (AR)         | %       | 29.7                   |  |  |
| Inherent Moisture (ADB)     | %       | 18.0                   |  |  |
| Gross Calorific Value (AR)  | Kcal/Kg | 4760                   |  |  |
| Gross Calorific Value (ADB) | Kcal/Kg | 5552                   |  |  |
| Ash (AR)                    | %       | 2.0                    |  |  |
| Ash (ADB)                   | %       | 2.3                    |  |  |
| Total Sulphur (AR)          | %       | 0.13                   |  |  |
| Total Sulphur (ADB)         | %       | 0.15                   |  |  |

This Certificate is supplementary to our Certificate of Sampling and analysis No. 13564/COAAAL dated October 15, 2018

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Dept. of Coal Inspection

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Certificate No. 13570/COAAAL

Date: October 15, 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** 

DESCRIPTION OF GOODS

QUANTITY/WEIGHT DECLARED NUMBER AND TYPE OF PACKAGES

MEANS OF CONVEYANCE

**REMARK** 

Envirocoal In Bulk 49,500 MT

In Bulk

Coal

By Sea going Vessel

The Consignment described above has been loaded into

holds of "MV. AS VICTORIA" 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. 13572/COAAAL Date: October 15, 2018



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# HOLD CLEANLINESS INSPECTION CERTIFICATE

VESSEL : MV. AS VICTORIA 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** 

CARGO HOLDS

WEIGHT

Envirocoal In Bulk No. 1 to No. 5 Holds 49,500 Metric Tons

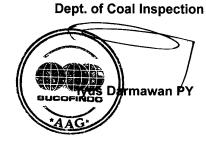
INSPECTION :

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. 13574/COAAAL Date: October 15, 2018



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# **CERTIFICATE OF ORIGIN**

VESSEL

AS VICTORIA

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

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

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Dept. of Coal Inspection

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Certificate No. 13576/COAAAL Date: October 15, 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. AS VICTORIA FROM : Taboneo, Indonesia

TO : JIMAH EAST POWER STATION, PORT DICKSON, NEGERI

SEMBILAN, MALAYSIA

SHIPPER : PT. ADARO INDONESIA

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 8, 2018) : 11,271.101 M / tons Net Displacement loaded (Final on October 13, 2018) : 60,770.757 M / tons Quantity of consignment : 49,499.656 M / tons

Rounded to : **49,500** M / tons

The Attachment available is an integral part of this certificate.

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SUCCEINDO IVAS PARMAWAN PY



Attachment

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Certificate No. 13576/COAAAL

Date: October 15, 2018



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Email: min.pst@sucofindo.co.id

# **CARGO QUANTITY CALCULATION TABLE**

|  |     | Initial Survey | Final Survey |
|--|-----|----------------|--------------|
|  |     | 08/10/2018     | 13/10/2018   |
| Forward mean draft, corrected, m                 | : - | 5.240          | 11.840       |
| After mean draft, corrected, m                   | :   | 6.720          | 11.875       |
| Midship mean draft, corrected, m                 | :   | 5.803          | 11.860       |
| Fore and After mean, m                           | :   | 5.98           | 11.8575      |
| Mean of means, m                                 | :   | 5.8915         | 11.85875     |
| Mean of means corr. For deformation, m           | :   | 5.829250       | 11.8414      |
| Corresponding displacement, m.t                  | :   | 28,412.185     | 62,052.802   |
| Trim correction, m.t                             | ;   | -207.332       | 2.462        |
| Disp. Corrected for trim, m.t                    | :   | 28,204.853     | 62,055.264   |
| Water density, Kg/I                              | :   | 1.021          | 1.021        |
| Water density correction, m.t                    | :   | -110.068       | -242.167     |
| Disp. Corrected for density, m.t.                | :   | 28,094.785     | 61,813.097   |
| Total deductibles (oil,water,ballast etc.), m.t. | :   | 16,823.684     | 1,042.340    |
| Net displacement, m.t                            | :   | 11,271.101     | 60,770.757   |
| By difference, total cargo loaded, m.t           | :   | 49,499         | .656         |
| Rounded to,                                      | :   | 49,500         | Metric Tons  |

See also attached schedule. Issued without prejudice.

Vessel: MV. AS VICTORIA, LIBERIA Flag

|   |                                      | Initial Survey<br>08/10/18 (10:30 Hrs LT)  |                              | Final Survey<br>13/10/18 (11:30 Hrs LT) |   |
|---|--------------------------------------|--|------------------------------|---|---|
| Actual Draft  |                                      | Port                                       | Starboard                    | Port                                    | Starboard                               |
| Forward, m<br>After, m<br>Midships, m                                     | :<br>:<br>:                          | 5.26<br>6.73<br>5.80                       | 5.27<br>6.73<br>5.82         | 11.84<br>11.87<br>11.85                 | 11.84<br>11.88<br>11.87                 |
| Deductibles Ballast Water Fresh Water Fuel Oil Diesel Oil Lube Oil Others | m.t.<br>m.t.<br>m.t.<br>m.t.<br>m.t. | 16,031.574<br>286.000<br>411.670<br>94.440 |                              | :                                       | 307.330<br>251.000<br>390.370<br>93.640 |
|   |                                      | 16,8                                       | 323.684                      | 1,                                      | 042.340                                 |
| Lightship<br>Apparent Constant, .   | wt<br>wt                             | 1  | 0,896.10 m.t.<br>375.00 m.t. |   |   |

#### REMARKS:

- 1. Tank Calibration Soundings and Displacement Table / Hydrostatic Curves provided on board.
- 2. Original on board working sheet counter signed or 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 during final draught survey.





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