



AA 0183766 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

Certificate No. : BJB 20391 QQ

## CERTIFICATE OF ANALYSIS

Vessel : MV. JIN SHUN  
Shipper Name : PT. INTAN NUSANTARA INDONESIA  
Quantity : 49,187 MT  
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA  
Port of Discharge : ANY PORT IN MAINLAND CHINA  
Commodity : INDONESIAN STEAM COAL  
BL DATE : JANUARY 24, 2023

Specifications shown the following cumulative results :

### SPECIFICATIONS:

#### TABLE A : BASED ON ASTM STANDARDS: PARAMETERS

		ACTUAL ANALYSIS RESULTS		
TOTAL MOISTURE	(ARB)	: 42.99	%	ASTM D3302/D3302M-19
INHERENT MOISTURE	(ADB)	: 12.41	%	ASTM D3173/D3173M-17a
ASH CONTENT	(ADB)	: 8.97	%	ASTM 3174-12(2018) <sup>e1</sup>
VOLATILE MATTER	(ADB)	: 42.47	%	ASTM 3175-20
TOTAL SULPHUR	(ADB)	: 0.59	%	ASTM D4239-18 <sup>e1</sup>
FIXED CARBON	(ADB)	: 36.15	BY DIFFERENCE	BY DIFFERENCE
HGI		: 57		ASTM D409/D409M-16
GROSS CALORIFIC VALUE	(ARB)	: 3443	KCAL/KG	ASTM D5865/D5865M-19
SIZE (0-50 MM)		: 90.44	%	ASTM D4749-87(2019) <sup>e1</sup>

#### TABLE B : BASED ON GB STANDARDS:

##### TRACE ELEMENT ANALYSIS

	BASIS	ACTUAL ANALYSIS RESULTS		
MERCURY (HG)	(DB)	: 0.043	UG/G	GB/T 16659-2008
ARSENIC (AS)	(DB)	: 1.54	UG/G	GB/T 3058-2008
PHOSPHORUS (P)	(DB)	: 0.004	PCT	GB/T 216-2003
CHLORINE (CL)	(DB)	: 0.017	PCT	GB/T 3558-2014 (Method B)
FLUORINE (F)	(DB)	: 42	UG/G	GB/T 4633-2014

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA

  
Welly Atikno  
Head Of Operation Division

THIS IS TO CERTIFY, with limited condition, that PT. Surveyor Carbon Consulting Indonesia "SCCI" has performed the inspection only for the part of the whole cargo the consignment nominated above and the other part of cargo performed by other Surveyor appointed by Shipper. The cumulative result tested refer to ASTM Method were combined from the two parts of samples, on which gross sample were drawn by ASTM Method.

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this certificate have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.  
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AA 0183765 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

Certificate No. : BJB 20391 QQ

## ADDITIONAL CERTIFICATE OF SAMPLING AND ANALYSIS

Vessel	: MV. JIN SHUN
Shipper Name	: PT. INTAN NUSANTARA INDONESIA
Quantity	: 49,187 MT
Port of Loading	: TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
Port of Discharge	: ANY PORT IN MAINLAND CHINA
Commodity	: INDONESIAN STEAM COAL
BL Date	: JANUARY 24, 2023

Specifications shown the following cumulative results :

### SPECIFICATION: BASED ON ASTM STANDARDS PARAMETERS

PARAMETERS	ACTUAL RESULTS	
GROSS CALORIFIC VALUE (ADB)	: 5290	KCAL/KG
GROSS CALORIFIC VALUE (ARB)	: 3443	KCAL/KG
GROSS CALORIFIC VALUE (MAF)	: 3858	KCAL/KG
GROSS CALORIFIC VALUE (MMMF)	: 3867	KCAL/KG
VOLATILE MATTER (ARB)	: 27.64	PCT
VOLATILE MATTER (DAF)	: 54.02	PCT
VOLATILE MATTER (DMMF)	: 53.35	PCT
VOLATILE MATTER (MMMF)	: 31.25	PCT
PHOTOPERMEABILITY (PM)	: 36	PM/%
ASH CONTENT (DB)	: 10.24	PCT
ASH CONTENT (ARB)	: 5.84	PCT
TOTAL SULPHUR (DB)	: 0.67	PCT
TOTAL SULPHUR (ARB)	: 0.38	PCT
HYDROGEN VALUE (ADB)	: 4.48	PCT
RADIOACTIVE DETECTION	: 49	NGY/H
GROSS CALORIFIC VALUE (DMMF)	: 6819	KCAL/KG
NET CALORIFIC VALUE (ARB)	: 3043	KCAL/KG
SIZE (0-1 MM)	: 9.29	PCT
SIZE (0-10 MM)	: 30.85	PCT
G INDEX	: 0	

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA

  
Welly Atikho  
Head Of Operation Division

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AA 0183764 A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

Certificate No. : BJB 20391 QQ

### ADDITIONAL CERTIFICATE OF SAMPLING AND ANALYSIS

Vessel : MV. JIN SHUN  
Shipper Name : PT. INTAN NUSANTARA INDONESIA  
Quantity : 49,187 MT  
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA  
Port of Discharge : ANY PORT IN MAINLAND CHINA  
Commodity : INDONESIAN STEAM COAL  
BL DATE : JANUARY 24, 2023

Specifications shown the following cumulative results :

Test				Result
Ultimate Analysis (ASTM D5373-21)				
Carbon	(DB)	PCT	:	63.51
Hydrogen	(DB)	PCT	:	5.11
Nitrogen	(DB)	PCT	:	0.89
Sulphur	(DB)	PCT	:	0.67
Oxygen	(DB)	PCT	:	19.58
Ash Analysis (ASTM D6349-21)				
SiO <sub>2</sub>	(DB)	PCT	:	53.93
Al <sub>2</sub> O <sub>3</sub>	(DB)	PCT	:	19.39
Fe <sub>2</sub> O <sub>3</sub>	(DB)	PCT	:	14.80
CaO	(DB)	PCT	:	3.94
MgO	(DB)	PCT	:	2.04
Na <sub>2</sub> O	(DB)	PCT	:	0.20
K <sub>2</sub> O	(DB)	PCT	:	0.89
MnO <sub>2</sub>	(DB)	PCT	:	0.18
TiO <sub>2</sub>	(DB)	PCT	:	1.03
P <sub>2</sub> O <sub>5</sub>	(DB)	PCT	:	0.10
SO <sub>3</sub>	(DB)	PCT	:	2.97
Ash Fusion Temperature - Reducing (ASTM D1857/D1857M-18)				
Initial Deformation	Degree Celsius		:	1180
Spherical	Degree Celsius		:	1190
Hemisphere	Degree Celsius		:	1200
Flow	Degree Celsius		:	1210
Ash Fusion Temperature - Oxidizing (ASTM D1857/D1857M-18)				
Initial Deformation	Degree Celsius		:	1300
Spherical	Degree Celsius		:	1310
Hemisphere	Degree Celsius		:	1320
Flow	Degree Celsius		:	1330

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA

  
Welly Atikna  
Head Of Operation Division

THIS IS TO CERTIFY, with limited condition, that PT. Surveyor Carbon Consulting Indonesia "SCCI" has performed the inspection only for the part of the whole cargo the consignment nominated above and the other part of cargo performed by other Surveyor appointed by Shipper. The cumulative result tested refer to ASTM Method were combined from the two parts of samples, on which gross sample were drawn by ASTM Method.

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this report have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.







PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

AA 0183763 A

To Accompany Cert. No : BJB 20391 QQ

## CERTIFICATE OF WEIGHT

THIS IS CERTIFY that the undersigned Surveyor of PT. Surveyor Carbon Consulting Indonesia did carry out a draft survey on board the following vessel according to SNI 7986:2014 and based on either measurements or scales and tables produced by the said vessel, the total cargo loaded on board this vessel was determined and reported as follows :

### GENERAL PARTICULARS

Vessel	: MV. JIN SHUN
Shipper Name	: PT. INTAN NUSANTARA INDONESIA
Quantity	: 49,187 MT
Port of Loading	: TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA
Port of Discharge	: ANY PORT IN MAINLAND CHINA
Commodity	: INDONESIAN STEAM COAL
BL DATE	: JANUARY 24, 2023

This draft survey was done with the Chief Officer of the said vessel in attendance. From the figures obtained by mean of the vessel's draft checked at the time initial and final draft surveys it was concluded that the total weight of cargo loaded on board the vessel, proved to be:

**49,187 MT**

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA



**Welly Atikno**

Head Of Operation Division

This certificate reflects our finding at time and place of inspection and does not refer to any other matter. This certificate is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this certificate have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.

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AA 0183762A

PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

Job No. : 838 20391 QQ

### CERTIFICATE OF DRAFT SURVEY

Vessel : MV. JIN SHUN  
Shipper Name : PT. INTAN NUSANTARA INDONESIA  
Quantity : 49,187 MT  
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA  
Port of Discharge : ANY PORT IN MAINLAND CHINA  
Commodity : INDONESIAN STEAM COAL  
BL DATE : JANUARY 24, 2023

Initial Survey	: 10:30-11:30 hrs	02 January 2023	GRT	: 32,474	L.B.P	: 183.250
Loading Commenced	: 14:00 hrs	04 January 2023	Deadweight	: 53,352	Summer Draft	: 12.54
Loading Completed	: 15:25 hrs	24 January 2023	Initial Draft	: 5.958875	Final Draft	: 12.180130
Final Survey	: 15:25-16:25 hrs	24 January 2023	dd F	: 0.85	dd F	: 0.85
			dd M	: 0.84	dd M	: 0.84
			dd A	: 14.40	dd A	: 14.40
			TPC	: 51.659	TPC	: 53.457
			LCF	: -7.146	LCF	: 2.419
			dM/dZ	: 34.60	dM/dZ	: 27.165

	INITIAL		FINAL	
Corrected Density	1.006	METRES	1.0135	METRES
Draft Forward Port	5.50	METRES	12.18	METRES
Draft Forward Starboard	5.60	METRES	12.18	METRES
Draft Forward Mean	5.55	METRES	12.18	METRES
Correction	-0.005	METRES	0	METRES
Corrected Forward Draft	5.545	METRES	12.18	METRES
Draft Aft Port	6.50	METRES	12.15	METRES
Draft Aft Starboard	6.66	METRES	12.15	METRES
Draft Aft Mean	6.58	METRES	12.15	METRES
Correction	0.088	METRES	-0.003	METRES
Corrected Draft Aft	6.668	METRES	12.147	METRES
Fore and Aft Mean	6.1065	METRES	12.1635	METRES
Draft Port Midships Corr'	5.80	METRES	12.23	METRES
Draft Starboard Midships Corr'	6.08	METRES	12.20	METRES
Midships Mean Corr'	5.939	METRES	12.215	METRES
Mean of Means	6.02275	METRES	12.1893	METRES
Double Mean of means	5.950875	METRES	12.180130	METRES
Displacement	28,487.795	M/TONS	62,551.942	M/TONS
1st Trim Correction	-226.227	M/TONS	-2.329	M/TONS
2nd Trim Correction	11.906	M/TONS	0.008	M/TONS
Displacement Corr' for Trim	28,273.474	M/TONS	62,549.621	M/TONS
Density Correction	-524.094	M/TONS	-701.776	M/TONS
Corrected Displacement	27,749.380	M/TONS	61,847.845	M/TONS
Ballast	15,203.310	M/TONS	297.491	M/TONS
Freshwater	160	M/TONS	68	M/TONS
Fuel Oil	328.100	M/TONS	238	M/TONS
Diesel Oil	49.970	M/TONS	49	M/TONS
Others	-	M/TONS	-	M/TONS
Total Known Weights	15,741.380	M/TONS	652.491	M/TONS
Displacement	27,749.380	M/TONS	61,847.845	M/TONS
Lightship Weight	11.258	M/TONS	11.258	M/TONS
Total Known Weights	15,741.380	M/TONS	652.491	M/TONS
Constant	750	M/TONS	750	M/TONS
<b>Cargo Loaded (Rounded)</b>			<b>49,187</b>	<b>M/TONS</b>

From the figure obtained by means of the ship's draft checked at the time of the initial and final surveys according to SNI 7986:2014, we hereby certify the weight of the cargo which was loaded on the above vessel to be as follows :

**Weight : 49,187 MT**

Remarks : "ROUNDED"  
SEA SWELL CONDITION ABOUT 1.5 METER

26 JANUARY 2023  
ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA

Welly Atikno

Signed for, on behalf of PT. Surveyor Carbon Consulting Indonesia : Head Of Operation Division

This report reflects our finding at time and place of inspection and does not refer to any other matter. This report is issued without prejudice and on the understanding that it does not relieve parties from their contractual obligations. All inspection covered in this report have been carried out to the best of our knowledge and ability and in accordance with practice and standard generally accepted in trade. Our responsibility is limited to the exercise of reasonable care and due diligence.  
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PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

AA 0183761 A

Job No. : BJB 20391 QQ

## **CERTIFICATE OF HOLD CLEANLINESS**

Vessel : MV. JIN SHUN  
Shipper Name : PT. INTAN NUSANTARA INDONESIA  
Quantity : 49,187 MT  
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA  
Port of Discharge : ANY PORT IN MAINLAND CHINA  
Commodity : INDONESIAN STEAM COAL  
BL DATE : JANUARY 24, 2023

THIS IS TO CERTIFY THAT the undersigned surveyor to PT. Surveyor Carbon Consulting Indonesia, did carry out survey of hold cleanliness attend on board :

### **MV. JIN SHUN**

Port of registry : HONG KONG, call sign : VRV19, with 32,474 tons grt, and 53,352 tons dwt,  
while she was lying afloat at : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA  
scheduled to load cargo of : INDONESIAN STEAM COAL

the cargo was to be loaded into the following ship's holds: # 1 up to # 5

#### **Report :**

It was noted that previous cargo was : NICKEL ORE

and method of cleaning were as follows :

- WASHING
- SWEEPING
- CLEANING

The above hold(s) in our opinion, as far as could be ascertained without the use of staging was found to be clean and in a fit condition to receive the cargo intended.

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA

  
**Welly Atikno**

Head Of Operation Division

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013/Form-01/04/04pp Rev 0







PT. SURVEYOR CARBON CONSULTING INDONESIA (SCCI)  
INDEPENDENT ASSURANCE SERVICES

AA 0183760 A

Certificate No. : **BJB 20391 QQ**

## **CERTIFICATE OF ORIGIN**

Vessel : MV. JIN SHUN  
Shipper Name : PT. INTAN NUSANTARA INDONESIA  
Quantity : 49,187 MT  
Port of Loading : TABONEO ANCHORAGE, SOUTH KALIMANTAN, INDONESIA  
Port of Discharge : ANY PORT IN MAINLAND CHINA  
Commodity : INDONESIAN STEAM COAL  
BL DATE : JANUARY 24, 2023

**WE HEREBY CERTIFY THAT THE COAL SHIPPED ON BOARD IS INDONESIA  
IN ORIGIN.**

26 JANUARY 2023

ISSUED BY PT. SURVEYOR CARBON CONSULTING INDONESIA  
AT THE LOADING PORT TABONEO ANCHORAGE, SOUTH KALIMANTAN,  
INDONESIA



**Welly Atikno**

Head Of Operation Division

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