

Date : December 014, 2017

Certificate No: -1710089B

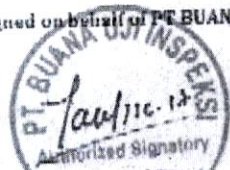
CERTIFICATE OF SAMPLING AND ANALYSIS

NAME OF VESSEL : MV. SAN NICHOLAS
QUANTITY : 28,355 MT
DESCRIPTION OF GOODS : INDONESIAN STEAM (NON-COKING) COAL IN BULK
PORT OF LOADING : ASAM ASAM, SOUTH KALIMANTAN, INDONESIA
PORT OF DISCHARGE : ANY PORT (S) IN INDIA
B/L DATE : DECEMBER 10, 2017

THIS IS TO CERTIFY that we have performed the inspection, sampling, preparation, and analysis of the coal shipment as nominated above. General analysis and total moisture samples were taken during loading to the mother vessel. Testing and analysis were performed accordance to ASTM standard method.

<u>Specification</u>	<u>Unit</u>	<u>Result</u>	<u>ASTM Designation</u>
Total Moisture	Pct	36.26	ASTM D3302/D3302M-2012
Inherent Moisture	Pct	18.17	ASTM D3173-2011
ASH	Pct	5.16	ASTM D3174-2012
Volatile matter	Pct	30.10	ASTM D3175-2011
Fixed Carbon	Pct	38.57	BY Difference
Sulphur	Pct	0.65	ASTM D4239 Method A2014
Gross Calorific Value	Kcal/kg	4165	ASTM D5865-2013
Hard Grove Index (HGI)	Approx	48	ASTM D409/D409M-2012
Size (0-50mm)	Pct	91.23	ASTM D4749-2012

Signed on behalf of PT BUANA UJI INSPEKSI at load port



(Authorized signatory)