



CERTIFICATE OF ANALYSIS

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THIS IS TO REPORT that in accordance with instructions received from our Principal [REDACTED], to perform analysis of the above mentioned shipment, we hereby report the following:

<u>ANALYSIS</u>	<u>ANALYSIS METHODS</u>	<u>AS RECEIVED BASIS</u>	<u>DRY BASIS</u>
% Total Moisture	DD CEN/TS 14774-2	4.31	—
% Ash	DD CEN/TS 14775	0.31	0.33
% Volatile	DD CEN/TS 15148	81.51	85.18

<u>PARAMETER</u>	<u>ANALYSIS METHODS</u>	<u>MEASURE</u>	<u>VALUE</u>
Hydrogen, (dry basis)	ASTM D5373	% of weight	6.08
Nitrogen, (dry basis)	ASTM D5373	% of weight	0.10
Oxygen, (dry basis)	ASTM D5373 (CALC)	% of weight	41.02
Carbon (dry basis)	ASTM D5373	% of weight	52.42
Sulphur (dry basis)	ISO 19579	% of weight	0.05

<u>CALORIFIC VALUE Analysis Method ISO 1928</u>	<u>MJ/kg</u>	<u>Kcal/kg</u>	<u>MWh/tonne</u>	<u>BTU/lb</u>
Net Calorific Value at Constant Pressure, including moisture (as received basis)	18.27	4363	5.08	7854
Net Calorific Value at Constant Volume, including moisture(as received basis)	18.34	4381	5.09	7886
Net Calorific Value at Constant Pressure (dry basis)	19.20	4586	5.33	8255
Net Calorific Value at Constant Volume (dry basis)	19.27	4603	5.35	8286

<u>SCREEN (Analysis Method ASTM D4749)</u>	<u>% WEIGHT</u>
3 mm X 0	0.3

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Sieve Analysis was done at 5.81 % Moisture.

<u>Fractional Distribution (particle size) of Raw Material</u> Analysis Method ASTM D 4749	<u>% WEIGHT</u>
< 3.00 mm	100
< 2.50 mm	100
< 2.00 mm	99
< 1.50 mm	89
< 1.00 mm	72

<u>ANALYSIS</u>	<u>ASTM METHOD</u>	
% Chlorine (Dry Basis)	0.011	D 4208
Bulk Density (Kg /m ³)	717.6	E 873

Fusion Temperature of Ash (Reducing Atmosphere) ISO 540

Initial Deformation	+1482	°C
Softening (h=W)	+1482	°C
Hemispherical	+1482	°C
Fluid	+1482	°C

V. Sharma, Laboratory Supervisor

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