SGS

CERTIFICATE OF ANALYSIS

The sample(s) to which the findings recorded here (the "Findings") relate were drawn and/or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representation of any goods and strictly relate to the sample(s) are said to be extracted. The Company accepts no liability with regard to the origin or source from which the sample(s) are said to be extracted.

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

ANALYSIS	ANALYSIS METHODS	AS RECEIVED BASIS	DRY BASIS
% 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

PARAMETER	ANALYSIS METHODS	MEASURE	VALUE
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

CALORIFIC VALUE Analysis Method ISO 1928	MJ/kg	Kcal/kg	MWh/tonne	BTU/lb
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

SCREEN (Analysis Method ASTM D4749)	% WEIGHT
3 mm X 0	0.3

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Sieve Analysis was done at 5.81 % Moisture.

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

ANALYSIS		ASTM METHOD
% 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	^{0}C
Softening (h=W)	+1482	^{0}C
Hemispherical	+1482	^{0}C
Fluid	+1482	^{0}C

V. Sharma, Laboratory Supervisor