INDIAN ORIGIN FLY ASH REF #1.1
TEST ANALYSIS RESULTS

Chemical Composition	Limits	Code/Method	Typical Results
Loss on ignition	<= 6.0%	ASTM C618	0.52%
Chloride	<= 0.10%	ASTM C618	0.01%
Sulfuric Trioxide (SO3)	<= 5.0%	ASTM C618	0.54%
Free calcium oxide	<= 1.5%	ASTM C618	1.48%
Reactive Calcium Dioxide	<= 10.0%	ASTM C618	5.90%
Reactive Silicon Dioxide	>= 25.0%	ASTM C618	50.75%
Aluminum oxide (Al2O3)	>=15.0%	ASTM C618	19.62%
Iron oxide (Fe2O3)	<=15.0%	ASTM C618	10.30%
Silicon Dioxide (SIO2) + Aluminum oxide (Al2O3) + Iron oxide (Fe2O3)	Total >= 70.0%	ASTM C618	80.52%
Equivalent Alkalis (Na2O + 0.658K2O)	<= 5.0%	ASTM C618	2.50%
Magnesium Oxide (MgO)	< 5.0%	ASTM C618	3.24%
Soluble phosphate	< 100mg/kg	ASTM C618	47 mg/kg
Fineness (Category S) 12% max	<=12%	ASTM C618	10.36%
Fineness (Category N) 40% max	<= 25 %	ASTM C618	18.06%
Physical Parameters/Activity index			
- 7 days	>= 75.0%	ASTM C618	78.00%
- 28 days	>= 75.0%	ASTM C618	91.00%
- 90 days	>= 86.0%	ASTM C618	94.50%
Soundness (Expansion)	<= 1.0%	ASTM C618	0.52%
Particle density	+- 200kg/m3	ASTM C618	200 kg/ m3
Initial setting time	minutes	ASTM C618	200
Water requirement	<- 95.0%	ASTM C618	86.50%
Moisture	3 max	ASTM C618	0.06%