

Laboratory HEL Chemical Testing Laboratory, Haldia Energy Limited, Vill.-
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Medinipur, Haldia, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6615 (in lieu of T-3793)

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Validity 05.02.2018 to 04.02.2020

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	SOLID FUELS			
1.	Coal	Total Moisture	IS 1350 (Part 1): 1984 (RA 2013) ASTM D 3302: 15/ ASTM D 3302 M-17	2 % to 40 %
		Equilibrated Moisture	IS 1350 (Part 1): 1984 (RA 2013) Clause. 6.1 (b)	0.5 % to 25 %
		Proximate Analysis		
		Moisture	IS 1350 (Part 1): 1984 (RA 2013) ASTM D 3173: 11/ ASTM D 3173 M-17 a	0.5 % to 25 %
		Volatile Matter	IS: 1350 (Part 1): 1984 (RA 2013) ASTM D 3175: 17	10 % to 45 %
		Ash	IS 1350 (Part 1): 1984 (RA 2013) ASTM D 3174: 12	2 % to 65 %
		Fixed Carbon (By Calculation)	IS 1350 (Part 1): 1984 (RA 2013) ASTM D 3172: 13	By calculation
		Gross Calorific Value	IS 1350 (Part 2) (RA 2010) ASTM D 5865 - 13	1500 kcal/kg to 7500 kcal/kg

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