

**Laboratory** Rayon Chemical Laboratory, Process and Quality Control  
Department, Century Rayon Shahad, Murbad Road, Shahad, Dist  
Thane, Maharashtra

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5572

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**Validity** 08.05.2017 to 07.05.2019

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

<b>I.</b>	<b>SOLID FUELS</b>			
<b>1.</b>	<b>Coal</b>	Total Moisture	IS:1350 (P-I)-1984, RA 2013	1.0 % to 50 %
		Equilibrated moisture at 60%RH & 40°C	IS:1350 (P-I)-1984, RA 2013	1.0 % to 50 %
		Volatile Matter	IS:1350 (P-I)-1984, RA 2013	2.0 % to 50 %
		Total Ash	IS:1350 (P-I)-1984, RA 2013	0.1 % to 60 %
		Gross Calorific Value	IS:1350 (P-II)-1970, RA 2015	2700 cal/g to 7500 cal/g
<b>2.</b>	<b>Charcoal</b>	Moisture	ASTM D1762-84 (Reapproved 2007)	1.0 % to 50 %
		Volatile Matter	ASTM D1762-84 (Reapproved 2007)	1.5 % to 50 %
		Total Ash	ASTM D1762-84 (Reapproved 2007)	0.1 % to 20 %
<b>II.</b>	<b>POLLUTION &amp; ENVIRONMENT</b>			
<b>1.</b>	<b>Waste Water (Effluents)</b>	pH	IS:3025(P-11)-1983, RA 2012	1 to 14
		Total suspended solids (Non-Filterable Residue)	IS:3025(P-17)-1984, RA-2012	10 mg/L to 15000 mg/L
		Biochemical Oxygen Demand (BOD)	IS:3025(P-44)-1993, RA-2014	5 mg/L to 4000 mg/L
		Chemical Oxygen Demand (COD)	IS:3025(P-58)-2006, RA-2012	10 mg/L to 15000 mg/L
		Oil and Grease.	IS:3025(P-39):1991, R-2014: Partition Gravimetric Method by using Hexane.	1 mg/L to 2000 mg/L

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III.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Stack Emission</b>	Carbon disulphide. (CS <sub>2</sub> )	IS:11255(P-4)-2006, RA 2012	20 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Hydrogen sulphide (H <sub>2</sub> S)	IS:11255(P-4)-2006, RA 2012	5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Sulphur dioxide (SO <sub>2</sub> )	IS:11255(P-2)-1985 RA 2014	20 mg/Nm <sup>3</sup> to 1500 mg/Nm <sup>3</sup>
2.	<b>Ambient Air</b>	Carbon disulphide (CS <sub>2</sub> )	Method: CR/P&QC-RCL/ENV/SOP/09 Issue No. 01/01.07.2015 Ref:- IS:5182(P-20)-1982, RA 2014	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Hydrogen sulphide (H <sub>2</sub> S)	IS:5182(P-7)-1973, RA 2014	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Sulphur dioxide (SO <sub>2</sub> )	IS:5182(P-2)-2001, RA 2012	4 µg/m <sup>3</sup> to 1050 µg/m <sup>3</sup>
		Nitrogen dioxide (NO <sub>2</sub> )	IS:5182(P-6)-2006, RA 2012	6 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Respirable Suspended Particulate Matter (PM <sub>2.5µ</sub> )	Method- CR/P&QC-RCL/ENV/SOP/13 Issue No. 01/01.07.2015 Ref: - CPCB Guidelines Volume - I May 2011.	1 µg/m <sup>3</sup> to 100 µg/m <sup>3</sup>
		Respirable Suspended Particulate Matter (PM <sub>10µ</sub> )	IS:5182(P-23)-2006, RA 2012	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
IV	<b>INDUSTRIAL &amp; FINE CHEMICALS</b>			
1.	<b>Hydrated Lime</b>	Available lime as Calcium Oxide (CaO)	IS:1514-1990,RA-2010	10 % to 75 %
		Available lime as Calcium Hydroxide (Ca(OH) <sub>2</sub> )	IS:1540 (P-2) 1970	15 % to 95 %

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