



# INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

## Testing / Service Charges in IJIRA for member mills

<b>(B) CHEMICAL TESTING</b>				
Sl no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
79	Spectrophotometric Colour Tests Colour Measurement (L,a,b values) Whiteness and yellowness index Colour Difference Comparison of strength of fabrics Comparison of strength of dyes Reflectance Curve Colour Prediction with Direct Dyes		0.5 sq. metre for each test	300 300 300 300 300 300 1000
80	Colour Fastness to Light (ISO): a) upto Blue Wool Std. 5 b) upto Blue Wool Std. 6 c) upto Blue Wool Std. 7 Colour Fastness to Light (AATCC): a) 20 AFU b) 40 AFU c) 80 AFU d) 100AFU	ISO-105 B02 1994/ ISO-105 B04 1994, IS 2454 1985  AATCC – 16 2004	0.5 sq. metre for each test	700 1400 2800  700 1400 2800 3500
81	Colour Fastness to Washing Test 1 40°C Test 2 50°C Test 3 60°C Test 4 95°C Test 5 95°C	ISO – 105 C10 – 2006 IS 687 1979 IS 3361 1969 IS 764 1979 IS 765 1979 IS 3417 1979	0.5 sq. metre for each test	250 250 250 300 400

82	Other Colour Fastness a) Rubbing/ Crockfastness  b) Perspiration c) Hot Pressing d) Organic solvent e) Sea water f) Chlorinated pool water g) water h) Dry cleaning i) Laundering (home or commercial) j) Acid spotting k) Alkali spotting m) Water spotting n) Bleaching (peroxide) o) Dry Heat	AATCC – 8 2005, ISO – 105 X12 (IS 766-88) AATCC - 15 1989,ISO-E04 ISO 105 X11, IS 689 ISO 105 X05, IS 688 ISO 105 E02, IS 690 ISO 105 E03, IS 4803 ISO 105 E01, IS 767 ISO 105 D01, IS 4802 ISO 105 C06, AATCC 61 ISO 105 E05 ISO 105 E06 ISO 105 E07 ISO 105 N02 ISO 105 P01	0.5 sq. metre for each test	150  150 300 200 300 250 300 200 300 200 200 200 300 200
83	Dimensional Stability Relaxation to washing Relaxation on additional washing Relaxation on heating	AATCC 96 2004  AATCC 117 2004	2 sq. metre cloth	250 250 200
84	Mildew and Rot Resistance of Textiles Assessment of antibacterial property Antimicrobial activity of carpets	AATCC 30 2004 AATCC 100 2004 AATCC 147 1998	1 sq. metre for each test	1400 1400 1400
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85	Fibre Blend analysis in Yarn/Fabric (2 components) - Qualitative - Quantitative Extra for each component	BIS Standard as appropriate	Yarn -50g Fabric-0.5m	200 400 200
86	Oil Emulsifier	BIS : 1758 / 1986		500
87	Jute Batching oil	BIS : 1758/ 1986	1 lt.	625
88	<b>Rice Bran Oil</b> Moisture and Volatile matter Density			

	Viscosity	IUPAC 2.401	1 lt.	2130
	Pour point			
	Unsaponifiable matter content			
	Saponification value			
	Free fatty acid/Acid value			
	Iodine value			
	Peroxide value			
	Emulsification Test			
89	<b>Water Analysis</b>		2 lt.	
	pH	pH meter		125
	Acidity	IS 3025 (P-22):1986		250
	Carbonate/Bicarbonate	IS 3025 (P-51):2001		250
	Hardness	IS 3025 (P-21):2009		250
	Chemical Oxygen Demand (COD)	IS 3025 (P-58):2006		600
	Dissolved Oxygen (DO)	IS 3025 (P-38):1993		300
	Biological Oxygen Demand (BOD)	IS 3025 (P-44):1993		1000
	Oil and grease	IS 3025 (P-39):1991		500
	Total Suspended Solids (TSS)	IS 3025 (P-15):1984		250
	Total Dissolved Solids (TDS)	IS 3025 (P-16):1984		300
	Chloride content	IS 3025 (P-32):1988		250
	Iron content	UV-VIS Photometric Method		250
	Sulfate	IS 3025 (P-24):1986		250
	Heavy metals	UV-VIS Spectrophotometric Method		250 /metal
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90	Estimation of Oil, fats and waxes in textiles fibres / fabric /Yarn	IJIRA Method	500 gm	500
91	Residual starch on fabric	IJIRA Method	500 gm	300
92	Estimation of ash content in textile (fibres / fabric /Yarn)	IJIRA Method	500 gm	300
93	Estimation of moisture regain moisture content of fiber/yarn/fabric	IJIRA Method	500 gm	250
94	Copper content of rot proof fabric	IJIRA Method	500 gm	625
95	Hydrogen Peroxide strength	IS 2080 : 1980	100 ml	250
96	Test of Sodium silicofluoride	IJIRA Method	100 gm	300
97	Water Repellency (Spray Test)	AATCC 22 2005	1 sq.m	200
98	Sodium meta-silicate/Sodium silicate	IS 9424 : 1979	100 gm	500
99	Tests of Guar Gum	IS 3988 : 1981	500 gm	800
100	<b>Quality tests of common acids</b>		500 ml	
	Hydrochloric acid	IS 265 : 1993		500
	Sulfuric acid	IS 266 : 1993		500

	Phosphoric acid	IS 798 : 1986		500
101	Tests for Tamarind Kernel Powder	IS 189 : 1977	500 gm	600
102	pH of aqueous extract of fibre/yarn/fabric	IS:1390:1983	1 sq.m	200
103	Water soluble matter of fibre/yarn/fabric	IS:3456:1966	1 sq.m	300
104	Scouring less of fabric	IS:1383-1977	1 sq.m	300
105	ATR-FTIR Analysis	-	10 gm	2250