



# INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

## Testing / Services Charges in IJIRA for member mills

As approved by the Council of management, IJIRA, in the 192th meeting and effective from 01.11.2015

<b>(B) CHEMICAL TESTING</b>				
<b>SI no.</b>	<b>Name of the Test / Test Parameter</b>	<b>Standard specification</b>	<b>Sample size</b>	<b>Rates (Rs.)</b>
1	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	360 360 360 360 360 360 1200
2	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 BO4 1994, IS 2454 1985  AATCC – 16 2004	0.5 sq. metre for each test	840 1680 3360  840 1680 3360 4200

SI no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
3	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	300 300 300 360 480
4	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	180  180 360 240 360 300 360 240 360 240 240 240 360 240
5	Dimensional Stability Relaxation to washing Relaxation on additional washing Relaxation on heating	AATCC 96 2004  AATCC 117 2004	2 sq. metre cloth	300 300 240
6	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	1680 1680 1680

SI no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
7	Identification of fibre in Blends (2 components) — Qualitative — Quantitative Extra for each component	BIS Standard as appropriate		240 480 240
8	Oil Emulsifier Test	BIS : 1758 / 1986		600
9	Tests for jute batching oil	BIS : 1758/ 1986	1 lt.	750
10	<b>Tests for Rice Bran Oil</b>	IUPAC 2.401	1 lt.	2130
	Moisture and Volatile matter			
	Density			
	Viscosity			
	Pour point			
	Unsaponifiable matter content			
	Saponification value			
	Free fatty acid/Acid value			
	Iodine value			
	Peroxide value			
Emulsification Test				
11	<b>Water Analysis</b>		2 lt.	
	pH	pH meter		150
	Acidity	IS 3025 (P-22):1986		300
	Carbonate/Bicarbonate	IS 3025 (P-51):2001		300
	Hardness	IS 3025 (P-21):2009		300
	Chemical Oxygen Demand (COD)	IS 3025 (P-58):2006		720
	Dissolve Oxygen (DO)	IS 3025 (P-38):1993		360
	Biological Oxygen Demand (BOD)	IS 3025 (P-44):1993		1200
	Oil and grease	IS 3025 (P-39):1991		600
	Total Suspended Solids (TSS)	IS 3025 (P-15):1984		300
	Total Dissolve Solids (TDS)	IS 3025 (P-16):1984		360
	Chloride content	IS 3025 (P-32):1988		300
	Iron content	UV-VIS Photometric Method		300
	Sulfate	IS 3025 (P-24):1986		300
	Heavy metals	UV-VIS Photometric Method		300 /metal

SI no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
12	Estimation of Oil, fats and waxes in textiles fibres / fabric /Yarn	IJIRA Method	500 gm	600
13	Residual starch on fabric	IJIRA Method	500 gm	360
14	Estimation of ash content in textile fibres / fabric /Yarn	IJIRA Method	500 gm	360
15	Estimation of moisture regain moisture content of fiber/yarn/fabric	IJIRA Method	500 gm	300
16	Copper content of rot proof fabric	IJIRA Method	500 gm	750
17	Hydrogen Peroxide strength	IS 2080 : 1980	100 ml	300
18	Test of Sodiusilicofluoride	IJIRA Method	100 gm	360
19	Water Repellency (Spray Test)	AATCC 22 2005		240
20	Sodium meta-silicate/Sodium silicate Tests	IS 9424 : 1979	100 gm	600
21	Tests of Guar Gum	IS 3988 : 1981	500 gm	960
22	<b>Quality tests of common acids</b>			
	Hydrochloric acid	IS 265 : 1993	500 ml	600
	Sulfuric acid	IS 266 : 1993		600
	Phosphoric acid	IS 798 : 1986		600
23	Tests for Tamarind Kernel Powder	IS 189 : 1977	500 gm	720
<b>FOOD GRADE JUTE PRODUCTS (FGJP) TESTING</b>				
24	Inspection, Testing & Certification	IJO 98/01	1-100 bales	2940 (For additional 50 or less bales Rs 600/- extra)
25	Technology transfer fee for manufacturing FGJP	-	-	75000
26	Annual Process Capability Certification fee for FGJP	-	-	37200

SI no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
27	Interim Process audit for manufacturing FGJP	-	-	12000
<b>ECO - PARAMETERS TESTING</b>				
28	Testing for Formaldehyde	AATCC 112		1200
29	Unsaponifiable matter content	IUPAC 2.401 IJO 98/01		600
<b>BIOLOGICAL TESTING</b>				
30	Bacterial Count	BIS : 1622 – 1981	Liquid 50 ml, Fabric 100g	1200
31	Pectinase activity	IJIRA method	50 g	1200
32	<b>Rot Resistance &amp; Anti-mildew Agents</b>	BIS : 2010- 1984 BIS : 1623- 1992	-	
	<b>A. Anti-mildew Proofing :</b>			
	1. Proofed fabric			
	a. Surface growth test		1 sq. metre	960
b. Staining Susceptibility test		-do-	360	
2. Proofing Agent		100 g	1440	
a. Treatment				
b. Surface growth test				
c. Staining susceptibility test				
<b>B. Rot Proofing :</b>				
1. Proofed fabric			2 sq. metre	1800
a. Surface growth test				
b. Soil burial test				
c. Multiple culture test				

SI no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
	2. Proofing Agent a. Treatment b. Soil burial test c. Multiple culture test		200 g	1800
33	Testing of Damaged Samples a) Direct examination of fungal growth b) pH determination c) Plating d) Damage count Tests ( a + b + c + d ) f) Examination of Iron Staining	IJIRA method BIS: 1390 - 1983 -do- BIS: 1390 - 1961 -do- BIS: 201 0 - 1984 -do- BIS: 1039 - 1956	2 sq. metre -do- -do- -do- -do-	600 240 960 480 2280 120
34	Testing of Disinfectants	IJIRA method	250 ml	1200
35	Sizing antiseptics	IJIRA method	50 g	1200
36	Bacteriological Examination of water a) Bacterial count b) Presumptive test for colon bacteria a and b combined	BIS: 1622 – 1981/1987 -do- -do-	500 ml. 500 ml. 500 ml.	720 960 1680
37	Special Test on Microbial Load Test for Bioburden on textile materials (Fungus, bacteria, yeast etc.)	Standard general microbiological methods	1 sq. metre	1800
38	Fungal culture tube	-	-	180 /Tube