INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

Testing / Services Charges in IJIRA for Member Mills

With effect from 15th November 2015 as approved by 193rd meeting of the Council of Management held on 18th September 2015

(A) PHYSICAL TESTING				
Sl nos.	**Name of the Test / Test Parameter**	**Standard specification**	**Sample size**	**Rates (Rs.)**
I	**FIBRE**			
1	Jute Fibre Bundle Strength (Tenacity)	IS: 7032 – 1986 (Part- 7)	One morah of fibre	550
2	Single Fibre Tenacity & Elongation (lnstron)	IS: 235 - 1989	-Do-	1500
3	Jute Fibre Fineness (Airflow) / Linear Density	IS: 7032 - 1986(Part- 8)	-Do-	500
4	Fineness (Gravimetric)	IS: 234 – 1973	-Do-	1000
5	Single Fibre Fineness (Viboskop)	ASTM D 1577- 07 (2012)		300
6	Elastic Recovery / Relaxation (lnstron)	ASTM: D 1774 - 90	-Do-	1500
7	Jute Gradation	IS: 7032 - 1986	3 morah of fibre	3500
8	Jute fibre Bulk Density	IS: 7032 - 1986(Patr- 6)		250
9	Moisture	(Oven dry method)	One rnorah of fibre	375
10	Fibre Flexural Rigidity	Method used by Pierce	300 g	800

Sl no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
II	**SLIVER**			
11	Grist (weight/ unit length)	IJIRA method	70- 150 yds	250
12	Sliver Weight CV %	IJIRA method	200 yds sliver	300
13	Short term sliver Weight CV% (Manual cut method)	IJIRA method	20 yds sliver	600
14	Av. Fibre Length, Short Fibre %,Length Distribution (Almeter)	ASTM: D 1575 - 13	-Do-	1800
III	**YARN**			
15	Count (Linear Density) of Yarn	IS: 570 – 1964, ASTM D 1059- 01	5 full bobbins or 1 kg spool	250
16	Cotton Yarn Count	IS : 237, IS : 239	10 Hanks / Spools	300
17	Cotton yarn Count Strength Product (CSP)	IS : 1315-1977(Reaffirmed 1999) / ASTM D 1907-12	-Do-	600
18	Single Yarn Strength (Goodbrand)	IS: 1670 – 1991 / ASTM D – 2256- 02	5 full bobbins or 1 kg spool	500
19	Single Yarn Strength & Elongation (Tensojute)	IJIRA method	5 full bobbins or 1 kg spool	400
20	Single Yarn Strength & Elongation (Instron)	IS: 1670 - 1991	-Do-	750
21	Cyclic Loading and unloading (Instron)	ASTM D 3107	5 hanks	2000
22	Yarn mass CV%, Imperfection	ASTM D 1425/ 1425 M-14	500 m yarn / spool	1000

Sl no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
23	Yarn Flexural Rigidity	Method used by Pierce	300 g	800
24	Twist / inch	IS: 832 –1985 (Reaffirmed -1999) ASTM D 1422-99 (Re approved 2008)	5 full bobbins.	350
25	Yarn Abrasion Resistance	IJlRA method	5 Hanks	300
26	Crimp	IS: 3442 – 1980 ASTM D 3883- 2008	1 metre of yarn	250
I7	**FABRIC (General)**			
27	GSM	ASTM D 3776/3776M-09a (2013), IS : 1964 – 2001	1 sq. metre	500
28	Ends and Picks / dm	ASTM D 3775-12	-Do-	500
29	Thickness,	ASTM D 1777- 96	-Do-	250
30	Type of Weave	IJIRA method	0.5 sq. m	350
31	Strip Tensile Strength & Elongation	IS: 1969- 2009 (Part-1) , ASTM 5035- 11;	1.5 sq. metre	1000
32	Grab Tensile Strength & Elongation	IS: 1969- 2009 (Part-2) , ASTM 5034- 09;	1.5 sq. metre	1200
33	Bursting Strength (Diaphragm)	IS: 1966 : 2009 (Part -1), ASTM D 3786/ 3786M-13	1sq. metre	600
34	Trapezoid/ Tongue Tear Strength (Instron)	ASTM D : 5587/4533 / ASTM D 2261-07 a	1 sq. metre	1000
35	Abrasion Resistance (Flex / Flat / Edge)	IS: 12673 : 2014	2 sq. metre	1000
36	Cover Factor	(By IJIRA Developed Cover Factor Meter)	1 sq. metre	200
37	Yarn Weight (Grist) taken from Fabric	IS: 3442- 1980	1 sq. metre	300

Sl No.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
38	Yarn Strength taken from Fabric	IS: 1670-1991 (Reaffirmed 1996) ASTM D 2256-02	1 sq. metre	600
39	Yarn Crimp taken from Fabric (Shirley)	IS : 3442, ASTM D 3883-08	1 sq. metre	250
40	Air Permeability	ASTM D 737; IS : 11056,	1.5 sq. metre	500
41	Drape	IS: 8357 - 1977	2 sq. metre	750
42	Flexural Rigidity (Stiffness)	IS: 6490 - 1971	0.5 sq. metre	750
43	Cyclic Loading and unloading (Instron)	ASTM D 3107	1 sq. metre	2000
44	Crease Recovery (Shirley)	IS: 4681 - 1981	1.5 sq. metre	750
45	Fibre Shedding by Martindale Tester	ASTM D 4966	1 metre	600
46	Fibre Shedding on abrasion between fabrics	IJlRA method	-Do-	500
48	Blend Ratio (Union Fabric of two fibres only)	IJlRA method	1 sq. metre	250
49	Tear Strength (Elmendorf)	ASTM D1424-96 (2004); IS: 6489-2011	0.5 sq metre (minimum)	750
50	Fabric Defect Analysis	IJlRA method	1 sq. metre cloth	300
V	**Geo-Textile fabrics (Jute / Synthetic – Woven / Non-Woven**			
51	Thickness	ASTM D 5199-01	1 sq meter	300
52	Grab Strength Test	ASTM D 4632-91	-Do-	1300
53	Static Puncture Resistance /CBR test	ASTM D -6241- 1999	-Do-	1400
54	Fabric Pull Out test/ Residual Shear Stress	IJIRA method	-Do-	1000
55	Tensile strength of PVJD	ASTM D :4632	1 mt long sample	1000

Sl No.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
56	Dynamic Perforation Test (Cone Drop)	ISO 13433: 2006	1 sq metre	
57	AOS (Apparent Opening Size) [O_{95}]	ASTM D -4751-12; IS:14294-1995	1 sq. metre	1000
58	Water Permeability	ASTM D : 4491-99a	$^1/_2$ sq. metre	800
59	Water Flow Rate	ASTM D : 4491	$^1/_2$ sq. metre	800
60	Wide Width Br. Strength & Br. Elongation (Instron)	IS: 13162- 92 ASTM D 4595-11	2 sq. metre	2000
61	Water Holding Capacity of Jute Soil Saver	IJlRA method	1 sq. metre cloth	300
62	Open Area % of Jute Soil Saver	IJlRA method	1 sq. metre cloth	1000
VII	**Fire Retardant Brattice Cloth /Rubberized Water-Proof Cloth**			
63	Strength of Brattice Cloth before & after accelerated aging	IS: 4355 – 1977	2 sq. metre cloth	3000
64	Thickness	IS 7702-2012	-Do-	300
65	Content % of Coated Fabric	IS : 7016 (Part -1 to 8)- 1982	-Do-	2000
66	Water proofness of aged sample	IS : 7016 (Pt –I, P-VII)	-Do-	1000
VI	**Cotton / Ju-co Fabrics**			
67	Yarn counts, end/picks etc of Cotton Drill / Denim / Ju-co Fabrics	IS 177	1 sq metre	2000
68	Fabric Shrinkage %	IS 177	0.5 sq metre	200
69	Blend Ratio %	IJlRA method	1 sq. metre cloth	200
IX	**BAG**			
70	Fabric Strength	IS: 1969 – 2009	5 bags	600

Sl no.	Name of the Test / Test Parameter	Standard specification	Sample size	Rates (Rs.)
71	Seam Strength	IS: 9030 – 1979	-Do-	600
72	Fabric Construction, Stitch Analysis & Dimension, Threads / inch	IS: 1963-1981, IS: 1954-1998	-Do-	800
73	Drop Test (Bag Package)	IS: 13035 – 1991	5 bags (For one type of grain)	1500
74	Holding capacity of Bag	IJIRA own method	1 bag	1000
75	Bag Test (Lot)	Checking of all criteria as per relevant std.	25 bags	600/ bag
X	**CARD and Gill PINS**			
76	Dimensions	International Std. Cordage Institute C I 1500-02, V.2 May 2006	A set of 25	600
77	Impact Strength	International Std. Cordage Institute C I 1500-02, V.2 May 2006	-Do-	600
XI	**GABION**			
78	Net Weight of Synthetic Gabion	IJIRA method	1 Full Gabion (min.)	400
79	Tensile Strength of Synthetic Gabion Net	IJIRA method	-Do-	3000
80	Rope Dia and Mesh dimension of Synthetic Gabion Net	International Std. CIordage Institute C I 1500-02, V.2 May 2006	-Do-	700
81	Rope Strength of Synthetic Gabion Net	International Std. CIordage Institute C I 1500-02, V.2 May 2006	-Do-	1500
XI	**OTHERS**			
82	Certification &Calibration of IJIRA Analogue type Moisture Meter	IS : 8824 (Part 2)1988 (Reaffirmed 2005)	---------	1000