RITES Lab/Eastern Region/Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

Sl. No.	*Product Category*	*Test*	*Average time for testing (working days)*	*Testing charges (Excluding GST @ 18% at present)*
1	**Metals & Alloys – Ferrous & non-Ferrous**	**Chemical Analysis:**		
		a) Chemical composition by Spectrometer	2	800/-
		b) Chemical composition by wet analysis - up to Five Elements	4	1875/-
		c)Chemical composition by wet analysis – more than 5 elements	6	1875/-
		e) Chemical Composition by wet analysis- Individual Elements S or P or C	2	575/-
		Mechanical Tests:		
		a)Yield Strength, Ultimate Tensile Strength & % Elongation	3	1500/-
		b)Bend/ Re-bend	2	1000/-
		c)Flattening test	2	375/-
		c)Impact test (3 samples) @ RT	5	2250/-
		d)Impact test (3 samples) upo -60°C	5	7776/-
		e)Hardness Test – Brinell	2	750/-
		f)Hardness Test Rockwell	2	750/-
		g)Hardness Test Vickers	2	750/-
		h)Head Soundness Test	3	500/-
		i) Shear Test	3	750/-
		j) Proof test	3	750/-
		Metallographic Tests		
		a)Seamless confirmation	2	1500/-
		b)Case depth	2	1500/-
		c)Inclusion Rating	2	1500/-
		d)Grain size	2	1500/-
		e)Micro structure	2	1500/-
		f) Depth of Decarburization	2	1500/-
		Others		
		a)Mass of Zinc coating	3	1000/-
		b)Uniformity of Zinc coating	3	1000/-
		c)Purity of sample (Copper and Silver)	3	1725/-
		d)Coating Thickness	3	756/-
		e) Passivation of coating	3	540/-
		f)Confirmation of Chromium/Nickel	3	648/-
		g)Confirmation of Cadmium/Silver/Copper/Lead	3	540/-
2	**Textile**	a) Pillow Cover/Bed Sheet (12 tests *as per IS 745:2003)	8	9245/-
		b) Handloom Cotton Turkish Towel-White (13 tests** as per IS 854:1991)	7	9704/-
		c) Sarees (20 tests ***as per IS: 15851:2009)	15	20781/-
		d) Blanket (15 tests ****as per IS:894/1980)	12	13157/-
		e) Woolen Serge (16 tests *****as per IS: 2319 :1987)	8	12403/-
		f)Jersey Woolen (11 tests ******as per IS: 2360:1977)	12	9040/-

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

Sl. No.	*Product Category*	*Test*	*Average time for testing (working days)*	*Testing charges (Excluding GST @ 18% at present)*
2	**Textile**	g)Polyester/Cotton Blended Shirting (19 test #as per IS 15853:2009)	12	20481/-
		h)Cotton Drill (16 tests ##as per IS: 177: 1989)	8	11946/-
		I) Woolen Felt (10 tests ###as per IS: 1719:2000)	10	6240/-
		j) Cotton Waste (3 tests ####as per IS: 6612:1979)	6	1350/-
		k) Pagree (12 tests #####as per IS: 7119:1973)	8	9339/-
		l) Signal Flag (8 tests @as per IS: 675:1973)	7	8148/-
		m) Angola Shirting (17 tests @@as per IS: 8331:2003)	10	13898/-
		n) Socks cotton (8 tests @@@as per IS: 3329 :1973)	7	7448/-
		o) Cotton Dury (8 tests @@@@as per IS: 1450:1991)	7	6759/-
		p) Handloom cotton Dhoties & Saries (12 tests @@@@@as per IS: 748/1990)	10	9245/-
		q) Cotton Calico (14 tests $as per IS:1544/1973)	10	9962/-
		r) Mosquito Net (6 tests $$as per IS: 10054/1996)	6	4874/-
		s) Cellular shirting (11 tests $$$as per IS:1144/1980)	10	7859/-
		t) Sponge cloth (9 tests $$$$as per IS: 860/1987)	8	6359/-
		u) Mulls (10 tests $$$$$as per IS: 186/1964)	8	6512/-
		Count of yarns	2	459/-
		Ends/dm	2	500/-
		Picks/dm	2	500/-
		Mass, g/m2	3	500/-
		Abrasion resistance	2	1080/-
		Alkali solubility, %	2	500/-
		Ash content, %	2	1000/-
		Breaking Load, N (kgf)	3	1000/-
		Colour fastness to Washing	3	1000/-
		Colour fastness to Rubbing	2	1000/-
		Colour fastness to Bleaching	2	486/-
		Colour fastness to Perspiration	2	1000/-
		Colour fastness to Hot pressing	2	432/-
		Crease recovery angle, degree	3	648/-
		Dimensional stability to Dry-heat	3	594/-
		Blend composition, %	3	1000/-
		pH value	2	500/-
		Scouring loss, %	3	1000/-
		Tear strength, N (kgf)	3	1000/-
		Water soluble, %	2	594/-
		Weave	2	500/-
		Wettability	2	459/-
		Wool content, %	2	1000/-
3	**Paper**	a)Printing Paper (8 tests as per IS 1848:2007-reaffirmed 2012)	3	7000/-

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

Sl. No.	*Product Category*	*Test*	*Average time for testing (working days)*	*Testing charges (Excluding GST @ 18% at present)*
3	**Paper**	b)plain copier paper (8 tests as per IS 14490:1997)	3	7500/-
		c) Computer Paper (11 tests as per IS 12766:1997	3	9500/-
		Tensile Strength	3	1000/-
		Opacity	2	1000/-
		Ash content	2	1000/-
		Burst Index	2	1000/-
		Bulk	2	500/-
		One Minute Cobb Test	2	1000/-
		GSM	3	500/-
		pH value	2	500/-
4	**Paints & Varnishes**	Synthetic Exterior Enamel (19 tests as per IS 8662:2004 with ICF/MD/Spec-045)	7	7500/-
		Paint Enamel interior (19 tests as per IS 133:2004 with ICF/MD/Spec-052)	10	7500/-
		Ready Mixed Paint Red Oxide Zinc Chrome Primer (15 tests as per IS 2074:1992)	10	15000/-
		Etch (Pretreatment) Primer (4 tests as per IS 5666: 1970)	7	4500/-
		Aluminium Paint in dual container (16 tests as per IS 2339 :1963 with IS-642 & IS 289)	15	7500/-
		Ready Mixed Paint Red Oxide, ISC:446 (20 tests as per M&C/PCN/122/2006)	10	15000/-
5	**Polymer-Rubber**	Tensile Strength	2	1000/-
		Elongation at Break %	2	1000/-
		Hardness- Before ageing	2	500/-
		Hardness- After ageing	2	1000/-
		Compression Set	2	1500/-
		Ageing Test	8	1500/-
		Ash%	2	1000/-
		Density	2	750/-
		Tension set	2	1000/-
6	**Polymer-Plastics**	Tensile Strength	2	1000/-
		Water Absorption <96 hrs at 27 ± 2°C	2	500/-
		Ash %	2	1000/-
		Density	2	500/-
		Melting point	2	500/-
		Hardness	2	500/-
7	**Polymer-FRP**	Fiber content	2	594/-
		Cross Breaking Strength	2	1000/-
		Compressive strength	2	486/-
		Water Absorption	2	324/-
		Density	2	324/-
8	**Leather**	Chromium Content	2	1080/-
		Tensile Strength	2	756/-

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

Sl. No.	*Product Category*	*Test*	*Average time for testing (working days)*	*Testing charges (Excluding GST @ 18% at present)*
8	**Leather**	Elongation at Break %	2	756/-
		Density	2	486/-
		Shrinkage temp.	2	750/-
		pH	2	540/-
		Double Hole Stitch Shear Strength	2	648/-
9	**Napthalene**	Crystallizing point	2	378/-
		Mositure Content	2	432/-
		Ash content	2	432/-
		Acid wash test	2	432/-
		Non-volatile matter	2	324/-
		Straining test	2	432/-
10	**Brush Paints**	Benzene alcohol test	2	270/-
		Oven test	2	270/-
		Mass of bristles	2	270/-
		Detection at dyed bristles	2	750/-
11	**Toughned glass**	Toughned / fragment test	2	864/-
12	**Foam**	Density	2	432/-
13	**Cork composite sheet**	Dimensional stability	2	1000/-
		Tensile strength	2	1000/-
		Compremibility and recovery	2	486/-
		Compression set	2	1000/-
14	**Wood**	Specific gravity	2	702/-
		Water absorption	2	486/-
		Moisture content	2	270/-
		Resistance to chemicals	2	594/-

Note:

(1)The above mentioned period is tentative in nature. Testing is taken up only after receipt of sample and testing charges.

(2) Testing time towards physical test as indicated above are for samples in machined condition. 2-3 days extra will be required incase machining at Lab is required.

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

Textile:

*** List of tests on Pillow Cover, as per IS: 745/2003, 1990.**

1	Count of yarn
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking Strength, N (kgf)
6	Dimensional change, %
7	Scouring loss, %
8	pH value of the aqueous extract
9	Colour fastness to Light
10	Colour fastness to Washing
11	Colour fastness to Rubbing
12	Colour fastness to Bleaching

**** List of tests on Handloom Cotton Turkish Towel, as per IS: 854/1991.**

1	Count of yarn
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Weave
6	Dimensional change, %
7	Scouring loss, %
8	Colour fastness to Light
9	Colour fastness to Washing
10	Colour fastness to Bleaching
11	Colour fastness to Rubbing
12	Wettability
13	Breaking Load (for honeycomb & huckaback towels)

***** List of tests on Saree, as per IS: 15851:2009.**

1	Count of yarn
2	Overall width, cm
3	Threads/dm (Warp & Weft)
4	Mass, g/m^2
5	Fibers composition, %
6	Breaking Strength, N (kgf)
7	Tear strength, N (kgf)
8	Dimensional stability to dry heat
9	Crease recovery angle, degrees
10	Pilling resistance
11	Dimensional change on washing, %
12	pH value of the aqueous extract
13	Colour fastness to Light
14	Colour fastness to Washing
15	Colour fastness to Dry- cleaning
16	Colour fastness to Dry-heat
17	Colour fastness to Perspiration
18	Colour fastness to Rubbing

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

19	Colour fastness to Hot pressing
20	Drape, %

****** List of tests on Blanket, as per IS: 894/1980.**

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking load, N (kgf)
6	Weave
7	Relaxation shrinkage, %
8	Scouring loss, %
9	DDT, %
10	Colour fastness to Light
12	Colour fastness to Washing
13	Colour fastness to Organic solvent
14	Colour fastness to Rubbing
15	Average fibre diameter

******* List of tests on Woolen Serge, as per IS: 2319/1987.**

1	Fineness/Grade of wool
2	Count of yarns
3	Ends/dm
4	Picks/dm
5	Mass, g/m^2
6	Breaking Strength, N
7	Colour fastness to Light
8	Colour fastness to Washing
9	Colour fastness to Dry cleaning
10	Relaxation shrinkage, %
11	pH value of the aqueous extract
12	Water resistance
13	Ether soluble matter, %
14	Wool Content, %
16	Blend, %

******** List of tests on Jersey Woolen, as per IS: 2360/1977.**

1	Wales/dm
2	Courses/dm
3	Dimensional change, %
4	Scouring loss, %
5	pH value of aqueous extract
6	Colour fastness to Light
7	Colour fastness to Washing
8	Alkali solubility, %
9	Fibre composition, %
10	Grade of wool Tops/Fibre
11	Single thread Breaking load

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

 # List of tests on Polyester/Cotton Blended Suiting, as per IS: 15853/2009.

1	Count of yarn
2	Threads/dm (Warp & Weft)
3	Mass, g/m^2
4	Fibers composition, %
5	Breaking Strength, N (kgf)
6	Tear strength, N (kgf)
7	Dimensional stability to dry heat
8	Crease recovery angle, degrees
9	Pilling resistance
10	Dimensional change on washing, %
11	pH value of the aqueous extract
12	Colour fastness to Light
13	Colour fastness to Washing
14	Colour fastness to Dry- cleaning
15	Colour fastness to Dry-heat
16	Colour fastness to Perspiration
17	Colour fastness to Rubbing
18	Colour fastness to Hot pressing
19	Drape, %

List of tests on Cotton drill, as per IS: 177/1989.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking Strength, N
6	Weave
7	Colour fastness to Light
8	Colour fastness to Washing
9	Colour fastness to Bleaching
10	Colour fastness to Perspiration
11	Scouring loss, %
12	pH value
13	Shrinkage or Elongation, %
14	Water soluble, %
15	Ash content, %
16	Barium activity number

List of tests on Woolen Felt, as per IS: 1719/2000.

1	Density, g/cm^3
2	pH value of aqueous extract
3	Chloride content, %
4	Sulphate content, %
5	Benzene methyl alcohol soluble matter, %
6	Water soluble matter, %
7	Ash content, %
8	Non-wool content, %
9	Proofing content, %

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

10	Wool content, %

List of tests on Cotton Waste, as per IS: 6612/1979.

1	Moisture content, %
2	Dirt and grit content, %
3	Foreign matter including dirt and grit, %

List of tests on Pagree, as per IS: 7119/1973.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking Strength, N
6	Scouring loss, %
7	pH value
8	Ash content, %
9	Water soluble, %
10	Colour fastness to Light
11	Colour fastness to Washing
12	Colour fastness to Bleaching

@ List of tests on Signal Flag, as per IS: 675/1973.

1	Ends/dm
2	Picks/dm
3	Mass, g/m^2
4	Breaking load, kg
5	Relaxation shrinkage, %
6	Proofing agent, %
7	Colour fastness to Light
8	Colour fastness to Washing
9	Fineness grade wool of wool tops

@@ List of tests on Angola Shirting, as per IS: 8331/2003.

1	Ends/dm
2	Picks/dm
3	Mass, g/m^2
4	Weave
5	Blend composition, %
6	Average Breaking strength, N (kgf)
7	Relaxation shrinkage, %
8	Colour fastness to Light
9	Colour fastness to Washing
10	Colour fastness to Dry-cleaning
11	Colour fastness to Perspiration
12	Colour fastness to Rubbing
13	Pilling resistance
14	pH value of aqueous extract
15	Fineness grade wool of wool top
16	Approx count of basic yarn
17	Length & Width

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

@@@ List of tests on Socks Cotton, as per IS: 3329/1973.

1	Dimensional change, %
2	pH value of aqueous extract
3	Scouring loss, %
4	Colour fastness of dyed socks to Light
5	Colour fastness of dyed socks to Washing
6	Colour fastness of dyed socks to Perspiration
7	Colour fastness of dyed socks to Rubbing
8	Residual chlorine, %

@@@@ List of tests on Cotton Dury, as per IS: 1450/1991.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking load, N
6	Colour fastness to Light
7	Colour fastness to Washing
8	Colour fastness to Rubbing

@@@@@ List of tests on Handloom cotton Dhoties & Saris, as per IS: 748/1990.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking Strength
6	Scouring loss, %
7	pH value
8	Dimensional change, %
9	Colour fastness to Light
10	Colour fastness to Washing
11	Colour fastness to Bleaching
12	Colour fastness to Perspiration

$ List of tests on Cotton Calico, as per IS: 1544/1973.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Weight , g/m^2
5	Breaking load
6	Weave
7	Scouring loss
8	Shrinkage or Elongation
9	Iron content
10	Copper content
11	Manganese content
12	Length & Width, cm
13	Colour fastness to Light
14	Colour fastness to Washing

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata

Testing charges and Testing time for testing in RITES Lab/Eastern Region/Kolkata w.e.f. 14.09.2018

$$ List of tests on Mosquito Net, as per IS:10054/1996.

1	Linear density of filament
2	No. of holes/cm^2
3	Mass. g/m^2
4	Bursting strength
5	Colour fastness to Light
6	Colour fastness to Washing

$$$ List of tests on Cellular shirting, as per IS: 1144/1980.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Mass, g/m^2
5	Breaking load
6	Weave
7	Colour fastness to Light
8	Colour fastness to Washing
9	Colour fastness to Perspiration
10	Length
11	Width

$$$$ List of tests on Cotton sponge cloth, as per IS: 860/1987.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Weight , g/m^2
5	Length
6	Width
7	Colour fastness to Light
8	Colour fastness to Washing
9	Scouring loss

$$$$$ List of tests on Mulls, as per IS: 186/1964.

1	Count of yarns
2	Ends/dm
3	Picks/dm
4	Weight , g/m^2
5	Breaking load
6	Scouring loss
7	Shrinkage or Elongation
8	pH value
9	Water soluble, %
10	Ash content, %

के. एस. पांडियान / K. S. PANDIAN
वरिष्ठ उप महाप्रबंधक (लेब) / Sr. DGM (Lab)
गुणवत्ता विभाग / QA Division
राइट्स लिमिटेड / RITES LIMITED
पूर्वी क्षेत्र / Eastern Region
कोलकाता / Kolkata