

**CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE,  
CENTRAL SILK BOARD, BANGALORE.**

w.e.f. - 1.11.2016

Statement of testing charges for the commercial samples at TTLs working under CSTRl

**A. MECHANICAL TESTS:**

SI. No.	TEST PARAMETER	TEST METHOD	Testing charges per lot (Rs.)
I.	<b>FIBRE TEST</b>		
1	Fineness test	ASTM D 2130 - 90	300
2	Moisture test	IS 199 : 1989 IS 15090(part-3) 2002	300
3	Fibre bundle strength	IS 3675 : 1966	350
4	Single fibre strength test	IS 235 : 1989 ASTM D 3822 – 01	600 1000
5	Fibre length	ASTM D 5103 - 01	500
6	Microscopic tests (both physical / chemical s	IS 667 : 1981 (5.5)	300
7	Wool grade		400
II	<b>RAW SILK TEST</b>		
1	Winding breaks	ISA Chapter II-Article-3 In house test method IS 15090(part-4) 2002	300 50 50
2	Size test	ISA - Chapter II - Article 4, 5 & 6 In house test method IS 15090(part-5 & 6) 2002	300 100 100
3	seriplane tests (Evenness, Neatness & Cleanness)	IS 15090 Part-7, 8 & 9 :2002 ISA-Chapter II – Article 7,8 & 9 In-house test method	50 300 50
4	Tenacity & Elongation	IS 15090 Part-10:2002 & In house ISA-Chapter II –Article 10	100 300
5	Cohesion	IS 15090 Part XI:2002 & In house ISA-Chapter II-Article 11	50 300
6	All testing & grading	IS 15090 Part-1 to XI:2002 ISA Chapter-II	350 1500
III	<b>DUPION SILK TEST</b>		
1	Special defect test	In house test method	300
2	Winding breaks	ISA & In house test method	200
3	Size test	ISA & In house test method	200
IV	<b>YARN TEST</b>		
1	Linear density	IS 1315 : 1977, IS-7703 (Part 1)-1990 ASTM D 1907-01& ASTM D 1059-01	150
2	Moisture content & moisture regain	IS 7703 (PART-3) 1991	300
3	Single thread strength & elongation test	IS 1670 : 1991, IS 7703 (Part 2)-1990 ASTM D 2256 – 02	400
4	Loop/Knot strength	IS 1670:1991	400
5	Lea strength	ASTM D 1578 – 93 IS 1671:1999	400
6	Twist	IS 832 : 1985, ASTM D 1422 - 99 & 1423 - 99 component	200 300
7	Identification of type of YARN Stapled or filament / Textrued or non textured	In house test method	250
8	No. of filaments in yarn	In house test method	250
9	Cross sectional shape of filaments	In house test method	300
10	Yarn diameter	ASTM D 2130- 90	300

<b>V</b>	<b>THROWN/TWISTED SILK TEST</b>		
1	Twist Single / componet		200 / 300
2	Size (Resultant)		150
3	Tenacity & elongation		400
<b>VI</b>	<b>FABRIC TEST</b>		
1	Thickness	IS 7702 – 1975	100
2	Width	IS 1954 : 1990 & ASTM D 3774 - 96	100
3	Length	IS 1954 : 1990 & ASTM D 3773 - 90	100
4	Fabric mass / GSM	IS 1964 : 2001 & IS 2387 : 1969 ASTM D 3776 – 96, ISO 3801	100
5	Thread density / Fabric count	IS 1963 : 1981, ASTM D 3887-96 ASTM D 3775-03a & ISO 7211/2	200
6	Crimp/count of yarn	IS 3442 : 1980 ASTM D 3883 - 04 & 1059 – 01 ISO-7211/3 & 7211/5	200
7	Cover factor	In-house test method	400
8	Warp/weft twist	IS 832:1985 / ISO 7211/4 ASTM D 1422 – 99 & ASTM D 1423 – 9	300
9	Crease recovery	IS 4681 : 1981& AATCC 66-1988	350
10	Stiffness	IS 6490 : 1971& ASTM D 1388 – 96	250
11	Abrasion resistance for 5000 rubs/for every additional 5000 rubs - Rs.250	IS 12673 : 1989 & ASTM D 4966 – 98 ASTM D 4966 – 98 &ASTM D 3884 – 07	400
12	Tensile strength & Elongation	IS-1969 : 1985 ASTM D 5034 – 95 & ASTM D 5035 – 9	400
13	Tearing strength	IS-6489 : 1993, ASTM D 1424-96 ASTM D 2261 – 96	250 350
14	Bursting strength	Based on IS-1966 : 1975	300
15	Identification of type of YARN / Stapled or filament / Textrued or non textured	In-house test method	250
16	Percentage by weight	In house test method	250
17	Air permeability test	IS-11056 : 1984 ASTM D 737 – 04	200
18	Weave analysis	In house method ; ISO 7211/1(simple) Complex	150 500
19	Drape co-efficient	IS 8357 : 1977	300
20	Water spray test	IS-390 : 1975	250
21	Pilling resistance	IS-10971 : 1984	400
22	Bow & skewness test	ASTM D 3882 – 99	350
23	Seam slippage	ASTM D 434 – 95	400
24	Seam strength	ASTM D 1683 – 04	400
25	Seam bursting strength	Based on IS 1966 : 1975	300
26	Garment seam strength	ASTM D 1683 - 04	400
27	Fabric defect analysis	In house method	1000
28	Shear & peel strength for fastness Rs.250 for every extra 500 cycles	ASTM D 5169-98 ASTM D 5170-98	500 500
29	Compression test for felts	In house method	500
30	Static elongation & peel strength for laminate	ASTM D 4851-97	500
31	Fabric stretch & stretch recovery	ASTM D 6614-00	500
32	Count of No. of defects in fabric/ 10 mts.	In house method	1000
33	Absorbency of Textiles	AATCC 79-2000	300
<b>VII</b>	<b>FELT TEST</b>		
1	Width	ASTM D 461-93 Section 9	100
2	Mass(Weight)	ASTM D 461-93 Section 11	100
3	Tensile Strength & Elongation	ASTM D 461-93 Section 12	500

VIII	Coated/Laminated and non woven fabric		
1	Tensile Strength & Elongation	IS 7016 (Part 2):1981 ASTM D 5034-95 & 5035-95	500
2	Tearing strength	IS 7016 (Part 3):1981 Method B Elmendorf:ASTM D 5734-95	350
		Tongue Tear (Single rip): ASTM D 5735:95	400
3	Width	IS 7016 (Part 1): 1982 Sec.3 ASTM D 3774-96	100
4	Thread Density	ASTM D 3775-03a	300
5	Length	IS 7016(Part 1):Section 2	100
		ASTM D 3773-90	
6	Mass	IS 7016 (Part 1):1982 Sec.4	100
		ASTM D 3776-96	
7	Stiffness	ASTM D 5732-95	150
8	Bow & skew	ASTM D 3882-95	350
9	water vapour permiability		1000

### B. CHEMICAL TESTS

SI. No.	TEST PARAMETER	TEST METHOD	
I	<b>TEXTILES</b>		(Rs.)
1	Light Fastness		
	Xenon (Artificial) - Bulk ( 10 & Above at a time)	IS-2454-1985 / ISO / AATCC	750
		IS-2454-1985 / ISO / AATCC	500
	Day light	IS-686-1985	500
2	Wash Fastness		
	Test No. 1-3	IS/ISO C-10-105	150
	Test No. 4 & 5	IS/ISO C-10-105	250
3	Rubbing fastness	IS-766-1988	150
4	Perspiration fastness	IS-971-1983	300
5	Dry Cleaning fastness	IS-4802-1988	350
6	Sublimation Fastness	IS-975-1988	350
7	Hot Pressing fastness	IS-689-1988	300
8	Colour fastness to bleaching		
	Hypochlorite	IS 762-1988	300
	Sodium Chlorite	IS-987-1988	
	Hydrogen Peroxide	IS-763-1988	
9	Colour fastness to Degumming	IS-970-1988	200
	Water	IS-767-1988	
	Hot Water	IS-4389-1987	
	Laundering, home & comm. accelarated	AATCC-61 (1A to 5A)-2001	
10	Scouring loss of silk	IS-1582-1968	200
11	Scouring loss of Cotton	IS-1383-1977	400
12	Fiber Identification	AATCC-20-2007	300
13	Blend Analysis ( One component)	AATCC-20A-2012	300
	Blend Analysis ( multi component)		500
	Blend Analysis - Interlining, Felts, nonwovens		800
14	pH of Aqueous Extracts	IS-1390-1983	200
15	Ether Soluble Matter (Oil & Wax Content)	IS-4390-2001	500
16	Water Soluble Matter	IS-3456-1966	300
17	<i>Dimensional changes</i>		
	Woven Fabrics other than wool	IS-2977-1989	200
	Silk Woven Fabrics	IS-3561-1989	
	Fabrics containing wool	IS-665-1989	
	Knitted fabrics made of synthetic fiber	IS-4419-1967	
	Woven fabrics of rayon & synthetic	IS 1299-1984	
Heat shrinkage	IS-11248-1995	400	

<b>II</b>	<b>CHEMICALS</b>		
1	Soap Analysis (for all the following parameters) IS 286-1978		2000
2	pH		200
3	Total Fatty Matter		300
4	Matter insoluble in alcohol		300
5	Total moisture Content		200
6	Glycerol content		300
7	Resin content		250
8	Unsaponified matter		500
<b>III</b>	<b>IDENTIFICATION OF DYES ON</b>		
1	Cellulose materials	IS-4472 (Part-1) 1967	350
2	Protein fabrics	IS-4472 (Part-2) 1968	
3	Man made fibres	IS-4472 (Part-3) 1973	
<b>IV</b>	<b>WATER ANALYSIS (IS-3025-1964) FOR</b>		
1	Hardness		100
2	pH		
3	Total dissolved solids		
<b>V</b>	Analysis for processing defect	In house method	1000
<b>VI</b>	Other tests		
1	Nature - Woven / Knitted / Nonwoven		100
2	coloured or not / Dyed or not		100
3	Bleached / unbleached		200
4	Coated or not		150
5	Lining / interlining		100
6	Reinforce material		100
7	Tufted / Non tufted		100
8	Cut pile / loop pile / others		100

### C. ECO & OTHER PARAMETER TESTING

SI. No.	TEST PARAMETER	TEST METHOD	Proposed
<b>I</b>	<b>Textiles/Leather/Auxilliaries</b>		(Rs.)
1	Banned Aryl Amines	German method	2500
	(Identification & Quantification)	In house test method	2500
	For individual banned	German Method	1000
	aryl amines (Identification)	In house test method	1000
2	Penta Chlorophenol	In house test method	1500
3	Pesticides	In house test method	3000
4	Free formaldehyde	ISO/DIS-14184-1/	1000
5	Heavy metals	IS:1039:1989	500
		DIN 38405 (part-24)	500
		In house test method	500
<b>II</b>	<b>Zari testing</b>		
	Estimation of gold and silver content of zari t	IS 9925-1981	500
<b>III</b>	<b>CCM results</b>		
	Delta E result / LAB values / XYZ values	DCI method	200
	R Values and Graphs	DCI method	500
<b>IV</b>	IR Spectra		500
<b>V</b>	Cocoon Testing for Customs	In house test method	500
	Cocoon character Aanlysis	In house test method	100
	Cocoon Reeling performance test	In house test method	500

**Service Tax and others cess are extra. Applicable as per prevailing rates**

**Proposed rates for SCTH / RSTC units Under CSTR**

<b>SI No.</b>	<b>Name of Test</b>		<b>(Rs.)</b>
	Denier test ( bobbin form) (Minimum of 5 bobbins)		25
1	Denier test ( skein form) ( Minimum of 5 skeins )		30
2	Limited test	( 5 skeins - miminum)	40
3	Raw silk testing & Grading - BIS.		350
4	Raw silk testing & Grading - ISA.	Only Indigenous ARM produced silk	1000
5	Raw silk testing & Grading - ISA.		1500
6	Fibre Identification		300
7	Composition of raw silk ( Blend analysis)		300
8	Nature - Yarn / fiber / sliver etc.		100
9	Seriplane tests of raw silk		50
10	Serigraph test of raw silk		100
11	Cohesion test of raw silk		50
12	Twist (twisted silk) - single		50
13	Twist (twisted silk) - composite		150
14	Denier test of twisted silk		50
15	Denier test of twisted silk [ TN co operative units]		50
16	Twist (twisted silk) [ TN co operative units]		40
17	Degumming loss test of twisted silk [ TN co operative units]		40
18	Computerised Zari Testing		50

**Service Tax and others cess are extra. Applicable as per prevailing rates**