

FIBRE TESTING:

S.No	Nature of Test	Instrument	Testing Charges in Rs(Members)	Testing Charges in Rs (Non-Members)	MethodAdopted	Sample Requirement
1.	Cotton Testing for	USTER HVI-1000 PREMIER ART 3	280	350	ASTM D 5867-2012e1 In house method SITRA/FP/02-2017 (In house method SITRA/FP/04-2017)	250 gms
	- Length, Strength, Fineness (HVI Mode or ICC Mode)					
	- Length, Strength, Fineness, Elongation, UR%, Colour Grade, Rd, +b, Trash Area & Trash Count (HVI Mode or ICC Mode)		330	410		
	- Micronaire Only		140	170		
	- Colour test and Trash		280	350		
2.	Cotton Testing for	AFIS AFIS PRO AFIS PRO-2	240	310	ASTM D 5866-12 In house method SITRA/FP/01-2015 ASTM D 5866-12 In house method SITRA/FP/01-2015 ASTM D 5866-12 In house method SITRA/FP/01-2015	100 gms
	- Neps		280	340		
	- Neps with Histogram					
	- Length & Maturity		240	310		
	- Length & Maturity with Length Histogram		280	340		
	- Neps, Length, Maturity		310	390		
	- Neps, Length, Maturity with Length Histogram		330	420		
	- Neps, Length, Maturity with Nep & Length Histogram		400	450		
- Neps, Length, Maturity &Neps Histogram	330	420				

3.	Cotton Fibre Maturity ((by Sodium Hydroxide Swelling Method)	Projection Microscope	310	390	IS 236-1968 (Reaffirmed 2010) Method 1	100 gms
4.	Trash Analysis in cotton	Shirley Trash Analyser	240	310	ASTM D 2812-07 (2012)	300 gms
5.	Trash µ dust in cotton	Trash Separator	240	310		200 gms
6.	Fibre Denier	Lenzing-Vibroskop	360	450	BISFA 2004 Chapter 6 ASTM D 1577-07 (2012)	50 gms
7.	Fibre Denier & Single Fibre Tenacity (Man-made Staple Fibres) Strength Elongation	Lenzing-Vibroskop Vibrodyn	610	760	BISFA 2004 Chapter 6 ASTM D 1577-07 (2012) ASTM D 3822/ D 3822M-14	50 gms
8.	Single Fibre Length Measurement (Man-made Staple Fibres)	Oil Plate Method	430	530	BISFA 2004 Chapter 5 SITRA FP/03/2017	50 gms
9.	Crimp Test (Fibre)	Manual	310	390	ASTM D 3937-2012	50 gms
10.	Moisture in textile materials Moisture Content Moisture Regain	Mesdan Moisture Tester	310	390	ISO 6741-1-1989 ASTM D 629-15 (Clause :9)	200 gms with air tight packing
11.	Denier of Fibre (unconventional fibres)	Manual	360	450	Cut and Weigh Method In house Method	50 gms
12.	Single Fibre Strength and Elongation (unconventional fibres)	ZwickRoell UTM	610	760		50 gms

YARN TESTING:

S.No	Nature of Test	Instrument	Testing Charges in Rs(Members)	Testing Charges in Rs(Non-Members)	MethodAdopted	Sample Requirement
1.	CSP Test - Lea Count with CV% - Lea Count & Strength with CV% - Lea Count with CV% from Hank - Lea Count & Strength from Hank	CSP tester	190 240 310 360	230 310 390 450	ASTM D 1907/ D 1907M-12 ASTM D 1578-93 (2016)	5 or 10 cops/ baby cones of 200 gms each
2.	Hank & CV% of Hank	Wrap Block	190	230		200 m of sliver/ 5 Simplex Bobbins
3.	SLIVER & ROVING U% U% &Spectogram U% Spectrogram, VL-Curve & Gearing Plan	Uster Tester UT 4 UT 5	310 430 430	390 530 530	ASTM D 1425/D1425M-2014	300 m of undisturbed sliver / 5 Simplex Bobbins
4.	Cohesive force (Sliver & Roving)	ZwickRoell UTM	790	990	ASTM D 2612 99(2005)	10 m of undisturbed Sliver/ Roving

5.	YARN					
	U% Imperfection			360	450	ASTM D 1425/D1425M-2014
	U% Imperfection with Hairiness			480	600	
	U% Imperfection Spectrogram			480	610	
	U% Imperfection at all sensitivity			480	610	In house method SITRA/YP/03-2015
	U% Imperfection and VL Curve			480	610	
	U% Imperfection Rel.Count& at all levels	USTER TESTER		480	610	
	U% Imperfection &F.Simulation	UT 4		480	610	
	Slub Parameters in yarn	UT 5		480	610	
	U% Imperfection Spkt& VL-Curve			610	760	
	U% Imperfection Spkt DR% & at all levels			610	760	
	U% Imperfection DR% & at all levels			610	760	
	U% Imperfection Spkt.at all Sensitivity Levels			610	760	
	U% Imperfection F. Sim&kntg& Wvg			610	760	
	U% Imperfection at all Sensitivity Level &F.Simulation			730	910	
U% Imperfection, Rel Count. DR% at all sensitivity levels			730	910		
U% Imperfection, Spkt, VL Curve at all sensitivity levels					5 or 10 Cops/ baby cones of 200 gms each	

6.	Hairiness - H - Sh	USTER TESTER UT 4 UT 5	360	450	In House SITRA/YP -03/2015	5 or 10Cops/ baby cones of 200 gms each
7.	Hairiness with S3 value	Zweigle UsterZweigle HL 400	310	390	ASTM D 5647- 07(2012)	5 or 10Cops/ baby cones of 200 gms each
8.	Hairiness (Yarn diameter & No of Protruding Hairs from 1 to 10 mm for 100 m length of yarn)	KeisokkiLaserspot	310	390	ASTM D 5647- 07(2012)	5 or 10 Cops/baby cones of 200 gms each
9.	Twist in Single Yarn Twist in Double Yarn Twist in OE Yarn	Twist Tester	310	390	ASTM D 1422/D 1422 M-13 ASTM D 1423/ D 1423 M-16	5 or 10 Cops/Cones of 200 gms each
10.	Single yarn Strength & Elongation Single yarn Tenacity & Elongation & Histogram Single yarn Tenacity & Elongation & Ind. Readings	Uster TensoRapid-4	360 480 480	450 610 610	In house method SITRA/YP/02-2015	5 or 10 Cops/Cones of 200 gms each.
11.	Single yarn Tenacity & Elongation Single yarn Tenacity & Elongation & Histogram Single yarn Tenacity & Elongation & Ind. Readings	Uster TensoJet-4	480	610	In house method SITRA/YP/01-2015 & ASTM D 2256/D 2256 M-10 (2015)	5 or 10 Cops/Cones with total length of 12,000 m

12.	Yarn Friction - Yarn To Yarn - Yarn To Metal	Constant Tension Transport – Lawson Hemphill	430	530	ASTM D-3108/D 3108 M-13	5 or 10 Cops/Cones of 200 gms each
13.	Yarn Appearance	Yarn Appearance Board Winder	190	230	ASTM D 2255/D 2255 M-09 (2013 el)	5 Cops or Cones of 100 gms each
14.	Yarn Faults (Short Thick, Long Thick, Long Thin) - Classimat 5 (Non-Cumulative/100km) - Classimat III (Non-Cumulative/100km) Fault Board (Fault Collection)	UsterClassimat 5 UsterClassimat 3	970 730 100	1210 910 100	ASTM D-6197-99 (2017)	6 Cones of half kg each or 150 Km Length of Yarn in Total
15.	Yarn Abrasion	MAG Abrasion Tester	360	450		5 Cops/Cones of 50 gms each
16.	Lint Propensity of Yarn	Lint Propensity Tester CTT- Lawson Hemphill	610	760		30,000 m of yarn in 6 cones
17.	Number of ply in the yarn	Microscope	240	310	Visual Inspection	
18.	Yarn Length in meters	Wrap Reel	240	310		
19.	Yarn Tensile Strength	ZwickRoell UTM	610	760		

20.	Yarn Denier	Wrap Reel and Weighing Scale	240	310	ASTM D 1907/ D 1907M-12 or Cut & Weigh Method	2 Bobbin
21.	Number of Filaments in yarn	Oil Plate	240	310	Visual Inspection	
22.	Yarn Type	Microscope	90	110	Visual Inspection	
23.	Net Weight of Yarn	Weighing Scale	190	230		

FABRIC TESTING:

S.No	Nature of Test	Instrument	Testing	Testing	Method Adopted	Sample
------	----------------	------------	---------	---------	----------------	--------

Please add 18% GST extra

			Charges in Rs(Members)	Charges in Rs(Non- Members)		Requirement
1.	Fabric- Ends & Picks	Pick Counter	190	230	ASTM D 3775-12 & IS 1963:2004 Reaffirmed 2014	1/2 meter
2.	Fabric–Warp Count, Weft Count	Measuring scale and Weighing Balance	240	310	In house method SITRA/CP/01-2015 & IS 3442:1980 Reaffirmed 2014	1/2 meter
3.	Fabric Weight - GSM - GLM	Weighing Scale	150	200	ASTM D 3776/D 3776 M-09a (2017) Option C & IS 1964:2001 Reaffirmed 2017	2 m in Full Width
4.	Fabric Tearing Strength (Elmendorf tear)	Elmendorf Tear Tester	310	390	ASTM D 1424-09 (2013) & IS 6489:Part I-2011 Reaffirmed 2017 ISO 13937 PART 1	1 meter
5.	Fabric Tearing Strength 1. Tongue Tear 2. Wing Rip 3. Trapezoidal Tear	ZwickRoell UTM	610	760	Tongue Tear ISO 13937 Part – 2 Wing Rip ISO 13937 Part – 3 Trapezoidal Tear ASTM D 5587	1 meter
6.	FabricTensile Strength - Grab Test	DAK Fabric Strength Tester	310	390	ASTM D 5034-09 (2017)	

	Fabric Tensile Strength -Strip test	DAK Fabric Strength Tester	310	390	ISO 13934:2-1999(2014) & IS 1969:Part 2-2010 Reaffirmed 2014 ASTM D 5035-11 (2015) ISO 13934:1-1999 (2013) & IS 1969:Part 1-2009 Reaffirmed 2014	1 meter
7.	Fabric Bursting Strength	Bursting Strength Tester	240	310	ASTM D - 3786/D3786M-13 & ISO 13938-1:1999 & IS 1966 Part I:2009 Reaffirmed 2014	1/2 meter
8.	Fabric Pilling Test	ICI Pill Box	310	390	IS:10971- (Part-1):2011 Reaffirmed 2017 & ISO 12945 (Part 1):2000	1/2 meter
9.	Fabric Thickness	Thickness Tester	120	150	ASTM D 1777-96 (Reapproved 2015) & IS 7702: 2012 Reaffirmed 2017	1/4 meter
10.	Fabric Air Permeability	TextestFx 3300 Air Permeability Tester	310	390	ASTM D 737-04 (2016) & IS 11056:2013	1 meter
11.	Fabric Seam Strength Test	ZwickRoell UTM	610	760	ISO 13936 - Part 1	1 meter

12.	Fabric Seam Slippage Test	ZwickRoell UTM	610	760	ASTM D1683& ISO 13936	1 meter
13.	Fabric Abrasion Resistance (Flex)	Flex Abrasion Tester- Shimadzu	360	450		1/2 meter
14.	Fabric –Circular Bending Stiffness Test	Circular bending Stiffness Tester	310	390	ASTM D 4032-08 (2012)	1/2 meter
15.	Fabric Defects		1210	1520		
16.	Fabric Cover Factor		310	390		1/2 meter
17.	Fabric Crease Recovery	Crease Recovery Tester	360	450	AATCC 66	1/4 meter
18.	Fabric Crimp -Warp Crimp -Weft Crimp	Crimp Tester	240	310	ASTM D 3883-04 (2016) & IS 3442:1980 Reaffirmed 2014	1/2 meter
19.	Fabric Drape Measurement	Drape Meter	310	390	BS 5058-1973	1 meter
20.	Fabric Friction	Shirley Fabric Friction Tester	240	310	BS 3424	1/2 meter
21.	Fabric – Length, Width	Measuring Scale	120	150		Full length

22.	Fabric – No of Filaments in Warp & Weft	Microscope	190	230		¼ meter
23.	Fabric – Stiffness Test (Warp & Weft Bending Length)	Shirley Stiffness Tester	310	390	BS 3356-1990 & IS 6490:1971 Reaffirmed 2014	½ meter
24.	Fabric Weave	Pick Glass	190	230		¼ meter
25.	Puncture Resistance	ZwickRoell UTM	610	760	ASTM D 4833 2000	½ meter
26.	Film Tensile Strength	ZwickRoell UTM	610	760		