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NORTHERN REGION / INSP / DELHI

RITES NORTHERN REGION LAB / FARIDABAD

Sub: Revised Charges of RITES NORTHERN REGION LABORATORY / FARIDABAD w.e.f 07/11/2024

S NO.	Product Category	TEST PARAMETERS	Rate per Sample Excluding GST (In Rs)	Average Time for Testing (Working Days)
1	Metal & Alloys- Ferrous and Non Ferrous	Chemical Composition by Spectrometer	800	2
		Chemical Analysis:		
		a) Chemical Composition by Wet Analysis (Single Element) (Except Purity % of Metal Cu, Al, Ag etc.)	600	2
		b) Chemical Composition by Wet Analysis (More than 05 Elements) (Except Oxygen content)	3000	4
		c) Oxygen Content- by LECO	1712	3
		d) Hydrogen Content	8000	4
		e) Purity of Cu %	3000	4
		f) Purity of Al %	3000	4
		g) Purity of Ag %	3000	4
		Mechanical Tests:		
		a) Yield Strength, Ultimate Tensile Strength & %Elongation	1205	3
		b) Bend Test	825	2
		c) Hardness Test- Brinell, Rockwell & Vickers	505	2
		d) Impact Test (03 Samples) @ RT	1594	5
		e) Impact Test (03 Samples) @ 60 °C	2214	5
		f) Torque Test	2500	3
		g) Wedge Load Test	2150	3
		h) Shear stress	2127	3
		i) Proof Load Test (Bolt)	2150	2
		j) Proof Load Test (Nut)	2150	2
		k) Breaking Load	2150	2
		Metallographic Test:		
		a) Inclusion Rating	1500	3
		b) Depth of Decarburization	1336	3
		c) Case Depth	1107	3
		d) Micro Structure	1500	3
		e) Grain Size	1247	3
		f) Seamless Confirmation	1336	3
		Others:		
		a) Mass of Zinc Coating	1037	3
		b) Plating Thickness (Cr)	1000	3
		c) Macro Each Test	967	3
		d) Radiography Test	1500	3
		e) Ultrasonic Test	1800	3

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		f) Corrosion Test (Rs 20 per Hr, for 1st 24 Hrs)	1000	3
		g) Storage Stability Test as per ASTM D618	3500	4
		h) Flaring Test of Tube	1000	2
2	Textile	a) Bed sheet (11 Tests as per IS: 745: 1990/2003)	5800	5
		b) Bed sheet (12 Tests as per IS: 745: 2021)	6400	5
		c) Polyvestra Bed Sheet/Pillow Cover (13 Tets as per Annexure)	6650	5
		d) Pillow Cover (11 Tests as per IS: 745: 1990/2003)	5800	5
		e) Pillow Cover (12 Tests as per IS: 745: 2021)	6400	5
		f) Handloom Cotton Turkish Towel-White (14 Tets as per IS: 854-2021)	6750	7
		g) Duster (05 Tests as per IS:377-2019)	3000	5
		h) Soft Blanket (05 Tests as per IS: 894-2021)	2700	5
		i) Woolen Serge (15 Tets as per IS: 2319-1978)	8250	8
		j) Signal Flag (08 Test as per IS:4106-2002)	5950	5
		k) Polyester Blended Shirting (19 Tests as per IS: 15852-2009 Amdt. 1)	12900	12
		l) Polyester Blended Suiting (19 Tests as per IS: 15853-2009 Amdt. 1)	11400	10
		m) Great Coat Cloth (13 Tests as per IS: 679-1993)	6150	10
		n) Jersey Woolen (12 Tests as per IS: 2360-1977 RA 1993)	6550	12
		o) Angola Shirting (16 Tets as per IS: 8331-2003)	8750	10
		p) Sarees (20 Tets as per IS: 15851-2009)	11050	15
		q) Mosquito net (IS: 9886-1990)	4415	6
		r) Cotton Drill (15 Tets as per IS: 177-1989)	8050	8
		s) Long Cloth Khadi (14 Tests as per IS: 187-1978)	7650	10
		t) Sponge cloth (8 tests as per IS: 860-1987)	3700	7
		u) Pagree (11 Tets as per IS: 7119-1973)	6500	8
		v) Dungari cloth (8 Test as per IS: 3778-2019)	3850	5
		w) Napkin (08 Tets)	7300	7
		x) Mosquito net (IS: 10054-1996)	4874	6
		Count of yarn	500	2
		Ends/pick	400	2
		Mass	400	2
		Ground to pile ratio	500	2
		Weave	500	2
		Identification of Material (Coposition)	600	2
		Scouring Loss-Finished	500	2
		Colour fastness to light	1000	3
		Colour fastness to Washing (single wash)	300	2
		Color fastness to Rubbing	300	2
		Color fastness to Bleaching	300	2
		Dimensional change (%)	350	2

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		Dimension (per Dimension)	300	2
		Wettability	500	2
		Breaking load	800	2
		PH Value	300	2
		Dimensional change (%), if test method IS:9	1000	3
		Stitch per CM	500	2
		Pilling Resistance as per IS:17388	800	2
		Residual Starch Content	500	3
		Relaxation Shrinkage	350	2
		Blend Composition	600	3
		Water Soluble matter	500	3
		Water Holding Capacity	2000	3
		Water Absorption Time	500	2
		Water Absorption Capacity	2000	3
		Thickness (Napkin)	400	2
		Colour fastness to dry cleaning	300	3
		Fineness grade of Wool	700	2
		Ether- soluble matter %	500	3
		Proofing agent	2000	3
		Tear strength	800	2
		Abrasion resistance	3000	3
		Colour fastness to Hot pressing	300	2
		Colour fastness to Perspiration	300	2
		Colour fastness to Dry-heat	300	2
		Drape, %	800	2
		Grade of wool	1000	2
		Wales	400	2
		Course	400	2
		Linear density of polyester and viscose fiber	1200	2
		Dimensional stability to dry heat	1000	2
		Crease recovery angle, degrees	1200	2
		Alkali solubility	500	2
		Barium activity number	400	2
3	Leather	a) Safety Shoes (IS: 15298 part-2 plus High Voltage Test)	18854	12
		b) Leather Below	5704	7
4	Polymer- Rubber	a) Rubber Identification	2129	3
		b) Shore Hardness-Before Ageing	560	2
		c) Ash Content	1500	2
		d) Specific Gravity	1200	2
		e) Tensile Test	1200	2
		f) Tear Strength	1800	2
		g) Compression Set	2119	3
		h) Tesion Set	1500	3
		i) Polymer Content	2800	2
		j) Elongation at Break	800	2
		k) Apparent Density	1800	3

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5	Wood	a) Ply wood, Gr-BWR (without preservative Test) (IS: 303-1989 RA 2003	8504	10
		b) Ply wood, Gr-MR (without preservative Test) (IS: 303-1989 RA 2003)	9504	20
6	Polymer-Plastics	a) Tensile Strength	1205	2
		b) Water Absorption <96 Hrs at 27± 2 °C	2654	3
		c) Ash Content	1500	3
		d) Density	1800	2
		e) Melting Point	500	2
		f) Hardness	505	2
7	Paper	a) Plain Copier paper (08 Tets as per IS: 14490: 1997)	3600	3
		b) Plain Copier paper (08 Tets as per IS: 1848-2007 Reaffirmed 2012)	3600	3
		c) Barcode sticker	1480	3
		d) GSM	500	3
		e) pH Value	300	3
		f) Cobb's Value	400	3
		g) Ash Content	400	3
		h) Opacity	300	3
		i) Moisture content	300	3
		j) Burst factor	400	3
		k) Tensile Index	400	3
		l) Tear Index	400	3
		m) Brightness	400	3
		n) Bulk	400	3
		o) Chemical Test	500	3
		p) Coating %	400	3
		q) Folding indurance	400	3
		r) Gloss %	400	3
		s) Mechanical pulp	500	3
		t) Resistance to Feathering	300	3
		u) Smoothness	400	3
		v) Wax pick	400	3
8	Chemical	a) Alumina Ferric (IS: 299:2012)	11792	10
9	Polymer-FRP	a) Fibre Content	1000	2
		b) Cross Breaking strength	1300	7
		c) Compressive Strength	1800	7
		d) Water Absorption	1500	2
		e) Density	1800	2
10	Paint, Varnish & Adhesive	a) Aluminium Paint	10000	7
		b) Enamel Syenthetic exterior (IS:8662)	10754	7
		c) Enamel syenthetic Interior (IS:133-2004)	10754	7
		d) Eatch Primer	6000	7
		e) Ready Mixed Paint	6000	7
		f) Adhesive	14400	7

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11	Chlorine Tablets	a) Active Molecules	10000	3
		b) Effective Chlorine		3
		c) Moisture Content		3
		d) Sustanibility (21 Days)	8500	22
12	PU Foam as per RDSO/2007/CG04 Rev 01	a) Apparent Desity	1800	3
		b) Tensile Strength	1200	3
		c) Elongation at break	800	3
		d) Tear Strength	1800	3
		e) Resilience	1000	3
		f) Compression Stess	1800	3
		g) Compression set	2500	3
		h) Load quotient (Comfort Factor)	2500	3
		i) Indentation Hardness index	2300	3
		j) Humidity Ageing test	3500	3
		k) Dynamic Fatigue test number of Cycle-80000	8000	5
13	FR Items	a) Heat Release rate (HRR) EN 45545	21105	5
		b) Toxicity and Smoke Density EN 45545	63000	5
14	Safety Helmet (IS: 2925-1984)	a) shock absorption Resistance	3800	5
		b) Penetration Resistance	1800	5
		c) Flammability resistance	1200	5
		d) Electric resistance	1800	5
		d) water absorption	1200	5
15	Fiber Cable IEC 60794	a) Crush Test	4000	3
		b) Tensile Test	3300	3

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राइट्स लिमिटेड/RITES LIMITED

(भारत सरकार का प्रतिष्ठान/A Govt. of India Enterprise)

Northern Region Laboratory Plot No.-466, Sector-68
IMT, Faridabad Pin-121004

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RITES NR LAB, FARIDABAD

Approved Rate List for Geotechnical Lab Tests w.e.f. 11/06/2025

S.No	Materials or Products Tested	Type of Test	Test Method Specification against which Tests are performed	Rate per Test excluding GST (in Rs.)	Average Time for Testing in Days (Working Days)
1	Rock	Density	IS 13030	326	4
2	Rock	Point Load test	IS 8764	1006	4
3	Rock	Water Absorption & Porosity	IS 1124 & IS 13030	303	4
4	Rock	Slake Durability	IS 10050	3000	7
5	Rock	Specific Gravity	IS 1122	600	4
6	Rock	Unconfined Compressive Strength	IS 9143	1688	5
7	Rock	Water Content	IS 13030	300	4
8	Soil	California Bearing Ratio (C.B.R.)	IS 2720 (Part 16)	1000	7
9	Soil	Consolidation Test	IS 2720 (Part 15)	3942	12
10	Soil	Determination of Water Content	IS 2720 (Part 2)	262	4
11	Soil	Direct Shear Test	IS 2720 (Part 13)	1796	5
12	Soil	Free Swell Index	IS 2720 (Part 40)	4500	7
13	Soil	Grain Size Analysis (Sieve Size - 75µm , 150µm , 300µm , 425µm , 600 µm , 1mm , 2mm , 4.75 mm , 10mm , 19 mm)	IS 2720 (Part 4)	256	4
14	Soil	Hydrometer	IS 2720 (Part 4)	426	7
15	Soil	Modified Proctor Test	IS 2720 (Part 8)	2500	5
16	Soil	Atterberg Limit	IS 2720 (Part 5) & (Part 6)	500	5
17	Soil	Moisture content & Density Test	IS 2720 (Part 28)	262	4
18	Soil	Specific Gravity	IS 2720 (Part 3 Sec 1)	392	4
19	Soil	Standard Proctor Test	IS 2720 (Part 7)	2500	5
20	Soil	Tri - axial Test	IS 2720 (Part 11)	1784	7
21	Soil	Unconfined Compression Test	IS 2720 (Part 10)	1857	5

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TESTING CHARGES FOR TEXTILE ITEMS AT RITES NR LAB FARIDABAD
w.e.f 07/11/2024

DUSTER COTTON KHADI (IS: 3777-2019)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Identification of Material (Composition)
5	Braking Load

TURKISH TOWEL (IS: 854-2021)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Ground to pile ratio
5	Weave
6	Identification of Material (Composition)
7	Scouring Loss-Finished
8	Colour fastness to light
9	Colour fastness to Washing (single wash)
10	Color fastness to Rubbing
11	Color fastness to Bleaching
12	Dimensional change (%)
13	Dimension
14	Wettability

Bed Sheet / Pillow cover (IS 745:2021)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Breaking load
5	Identification of Material (Composition)
6	Dimensional change (%), if test method IS:9 than 1000/-
7	Scouring Loss-Finished
8	PH Value
9	Colour fastness to light
10	Colour fastness to Washing (single wash)
11	Color fastness to Rubbing
12	Color fastness to Bleaching

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Bed Sheet Poly Vastra as Per Annexure A	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Type of Wave
5	Breaking load
6	Scouring Loss
7	PH Value of Aqueous Extract
8	Residual Starch Content
9	Relaxation Shrinkage
10	Blend Composition
11	Water Soluble matter
12	Color fastness to Rubbing
13	Colour fastness to light

DUNGARI CLOTH (IS: 3778-2019)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Braking Load
5	Identification of Material (Composition)
6	Dimensional change
7	Scouring Loss
8	Ph value

WOOLEN SERGE (IS: 2319-1987)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Relaxation shrinkage
5	Breaking strength
6	weave
7	Ph value of aqueous extract
8	Colour fastness to light
9	Colour fastness to washing
10	Colour fastness to dry cleaning
11	Wool content
12	Fineness grade of Wool
13	Water resistance
14	Ether- soluble matter %
15	Blend, %

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SIGNAL FLAG (IS: 675-1973)	
S NO.	PARAMETERS
1	Ends/pick
2	Mass
3	Braking Load
4	Relaxation shrinkage
5	Proofing agent
6	Colour fastness to light
7	Colour fastness to washing
8	Fineness grade wool of wool tops

POLYESTER BLENDED SHIRTING (IS: 15852-2009 Amdt-1)	
S NO.	PARAMETERS
1	Count of yarn
2	Thread/dm(Warp and Weft)
3	Mass
4	Fiber composition, %
5	Breaking strength
6	Tear strength
7	Dimensional stability to dry heat at 150+/-2 deg
8	Ph value of aqueous extract
9	Pilling resistance
10	Crease recovery angle, degree
11	Dimensional change on washing
12	Abrasion resistance
13	Colour fastness to light
14	Colour fastness to washing
15	Colour fastness to dry cleaning
16	Colour fastness to Rubbing
17	Colour fastness to Hot pressing
18	Colour fastness to Perspiration
19	Colour fastness to Dry-heat

POLYESTER BLENDED SUITING (IS: 15853-2009)	
S NO.	PARAMETERS
1	Count of yarn
2	Thread/dm(Warp and Weft)
3	Mass
4	Fiber composition, %
5	Breaking strength
6	Tear strength
7	Dimensional stability to dry heat
8	Crease recovery angle, degree
9	Pilling resistance
10	Dimensional change on washing
11	Ph value of aqueous extract
12	Colour fastness to light
13	Colour fastness to washing

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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, %

GREAT COAT CLOTH (IS: 679-1983)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Relaxation Shrinkage
5	Breaking strength
6	Weave
7	PH Value of Aqueous Extract
8	Colour fastness to light
9	Colour fastness to Washing
10	Colour fastness to Dry cleaning
11	Blend Composition
12	fineness grade of Wool

JERSEY WOOLEN (IS: 2360-1977 RA 1993)	
S NO.	PARAMETERS
1	Composition of wool
2	Grade of wool
3	Wales
4	Course
5	Mass per 10 jersey
6	Scouring loss
7	Single thread Breaking load
8	Relaxation shrinking
9	PH Value of Aqueous Extract
10	Colour fastness to Light
11	Colour fastness to Washing
12	Alkali solution

ANGOLA SHIRTING (IS: 8331-2003)	
S NO.	PARAMETERS
1	Blend Composition
2	Finess/ Grade of wool
3	Count of yarn
4	Ends/pick
5	Mass
6	Weave
7	Pilling resistance
8	Avg Breaking strength

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9	Relaxation shrinkage
10	Ph value of aqueous extract
11	Colour fastness to light
12	Colour fastness to washing
13	Colour fastness to dry cleaning
14	Colour fastness to Rubbing
15	Colour fastness to Perspiration
16	Linear density of polyester and viscose fiber

Saree (IS: 15851-2009)	
S NO.	PARAMETERS
1	Count of yarn
2	Overall width
3	Threads (Warp & Weft)
4	Mass
5	Fibers composition
6	Breaking strength
7	Tear strength
8	Dimensional stability to dry heat
9	Crease recovery angle, degrees
10	Pilling resistance
11	Dimensional change on washing
12	Ph value of 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
19	Colour fastness to Hot pressing
20	Drape, %

COTTON DRILL (IS: 177-1989)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Breaking strength
5	Weave
6	Colour fastness to light
7	Colour fastness to washing
8	Colour fastness to Bleaching
9	Colour fastness to Perspiration
10	Scouring loss
11	Ph value
12	Shrinkage or Elongation
13	Water soluble
14	Ash content
15	Barium activity number

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LONG CLOTH KHADI (IS: 187-1978)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Relaxation Shrinkage
5	Breaking strength
6	Weave
7	Ph value of aqueous extract
8	Colour fastness to light
9	Colour fastness to Washing
10	Scouring loss
11	Water soluble
12	Ash content
13	Blend composition

COTTON SPONGE CLOTH (IS: 860-1987)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Weight
4	Length
5	Width
6	Colour fastness to light
7	Colour fastness to washing
8	Scouring loss

PAGREE (IS: 7119-1973)	
S NO.	PARAMETERS
1	Count of yarn
2	Ends/pick
3	Mass
4	Breaking strength
5	Scouring loss
6	Ph value
7	Ash content
8	Water soluble
9	Colour fastness to light
10	Colour fastness to Washing
11	Colour fastness to Bleaching

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