

# Annexure-1

Users - Direct / Indirect Male Employees & Executives

Present Specification - SHIRTING, 67/33, POLYESTER/COTTON SPUN X SPUN 89/90 CMS WIDTH PLAIN WEAVE FAWN SHADE - SHIRTING

Based on IS Specification - Fawn Shirting

Sl. No.	Specification	Proposed parameters,
1	Colour	Fawn Shade
2	Identification of fibre (IS : 667) Warp way Weft way	Polyester + Cotton Polyester + Cotton
3	% Composition (IS : 3416) Polyester Cotton	67% $\pm$ 2% 33% $\pm$ 2%
4	Ends / dm (ASTM-D3775) Picks/dm	400 + / - 5% 400 + / - 5%
5	Warp Count (Ne) 2 ply doubled Weft Count(Dn) (ASTM-D 1059) Mass (g/m <sup>2</sup> ) - ASTM-D 3776	2/80 <sup>s</sup> + 5% (2ply double spun yarn) 2/80 <sup>s</sup> + 5% (2ply double spun yarn) 105 + 5 % / - 2%
7	Length in metres, min.	4.4 / 4.6 / 5 / 6 mtrs for stitching 2 f/s shirt
8	Width in cms (ASTM — D 3774)	90 $\pm$ 1
9	Tensile Strength : a) Warp Strength Kgf., min. b) Weft Strength Kgf., min.	(IS 1969) - 5 x 20cms Strip size 65 65
10	Crease Recovery Angle, min (IS : 4681) Warp way Weft way	130° 130°
11	Pilling rating IS 10971 (After 18000 revolutions)	4-5
12	Tear Strength (ASTM — D 1424) Warp Tear Strength gf., min Weft Tear Strength gf., min	2000 2000
13	Air permeability cfm (ASTM D — 737) min	18
14	% shrinkage to relaxation, max (IS 2977) a) Warp way b) Weft way	1 1
15	% shrinkage (hot condition) at 105° $\pm$ 2° C, max (IS:11248) a) Warp way b) Weft way	2 2
16	pH value of Aqueous extract (IS : 1390)	6 to 8
17	Minimum colour fastness rating to a) Light (IS : 2454) b) Washing (IS : 764) c) Rubbing (IS : 766) d) Perspiration (IS : 971) e) Hot pressing, dry and wet (IS : 689)	5 4 4 4 4
18	Weave	Plain

## Annexure- 2

Users - Direct / Indirect Male Employees &amp; Executives

Present Specification - GABERDINE CLOTH 1.3 MTR, POLYESTER/COTTON SPUN, CADBURY SHADE SUITING

Based on IS Specification - Cadbury Suiting

Sl. No	Specification	Proposed parameters
1	Colour	Cadbury Colour
2	Fabric blend Composition % Polyester Cotton	67 $\pm$ 5% 33 $\pm$ 5%
3	Ends / dm (ASTM-D3775) Picks / dm	gaberdine 330 +5% / -2.5% 250 +5% / -2.5%
4	Warp Count/ Ne (ASTM-D 1059) Weft Count/ Ne	2/30 <sup>5</sup> $\pm$ 5% 2/30 <sup>5</sup> $\pm$ 5%
5	Mass (g/m <sup>2</sup> ) ASTM-D 3776	240 + 5% / - 2.5 °A
6	Length in metres , min	2.6 meter for stitching 2 pants
7	Width in cms, min ASTM — D 3774	147
8	Tensile Strength on 5x20cm strip : IS 1969 Warp Strength Kg Min Weft Strength Kg Min.	140 110
9	Crease Recovery, IS 4681 Warp recovery angle, min Weft recovery angle., min	130° 130°
10	Pilling rating IS 10971 (After 18000 revolutions)	4 or better
11	Tear Strength : ASTM — D 1424 Warp Tear Strength gf.,min Weft Tear Strength gf.,min	6400 6400
12	% shrinkage to relaxation max. IS 2977 Warp way Weft way	2 2
13	% shrinkage (hot condition) at 105° $\pm$ 2° ,max. IS : 11248 Warp way Weft way	2 2
14	pH value of Aqueous extract IS 1390	6 to 8
15	Minimum colour fastness rating to : Light IS : 2454 Washing IS : 764 Rubbing IS : 766 Perspiration IS : 971 Hot pressing, dry & wet IS : 689	5 4 4 4 4
16	Weave	2/2 gaberdine

## Annexure 3

Users - Drivers

**Present Specification - SHIRTING, 67/33, POLYESTER/COTTON SPUN X SPUN 89/90 CMS WIDTH PLAIN WEAVE WHITE SHADE -SHIRTING**

**Based on IS Specification - White Shirting**

Sl. No.	Specification	Proposed parameters,
1	Colour	White Shade
2	Identification of fibre (IS : 667) Warp way Weft way	.. Polyester + Cotton Polyester + Cotton
3	% Composition (IS : 3416) Polyester Cotton	67% ± 2% 33% ± 2%
4	Ends / dm (ASTM-D3775) Picks/dm	400 + / - 5% 400 + / - 5%
5	Warp Count (Ne) 2 ply doubled Weft Count(Dn) (ASTM-D 1059) Mass (g/m2) - ASTM-D 3776	2/80 <sup>s</sup> + 5% (2ply double spun yarn) 2/80 <sup>s</sup> + 5% (2ply double spun yarn) 105 + 5 % / - 2%
7	Length in metres, min.	4.4 / 4.6 / 5 / 6 mtrs for stitching 2 f/s shirt
8	Width in cms (ASTM — D 3774)	90 ± 1
9	Tensile Strength : a) Warp Strength Kgf.,min. b) Weft Strength Kgf., min.	(IS 1969) • 5 x 20cms Strip size 65 65
10	Crease Recovery Angle , min (IS : 4681) Warp way Weft way	130° 130°
11	Pilling rating IS 10971 (After 18000 revolutions)	4-5
12	Tear Strength (ASTM — D 1424) Warp Tear Strength gf.,min Weft Tear Strength gf.,min	2000 2000
13	Air permeability cfm (ASTM D — 737) min	18
14	% shrinkage to relaxation , max (IS 2977) a) Warp way b) Weft way	1 1
15	% shrinkage (hot condition) at 105° ± 2° C,max (IS:11248) a) Warp way b) Weft way	2 2
16	pH value of Aqueous extract (IS : 1390)	6 to 8
17	Minimum colour fastness rating to a) Light (IS : 2454) b) Washing (IS : 764) c) Rubbing (IS : 766) d) Perspiration (IS : 971) e) Hot pressing, dry and wet (IS : 689)	4 to 5 4 4 4 4
18	Weave	Plain



# Annexure 4

Users - Drivers

Present Specification - WHITE SUITING, 67/33 PLOYESTER/COTTON, 148/150 CMS WIDTH, 2/1 TWILL WEAVE WHITE SUITING

Based on IS Specification - White Suiting

Sl. No	Specification	Proposed parameters
1	Colour	White shade
2	Fabric blend Composition % Polyester Cotton	67 ±5% 33 ±5%
3	Ends / dm (ASTM-D3775) Picks / dm	Twill weave 330 +5% / -2.5% 250 +5% / -2.5%
4	Warp Count/ Ne (ASTM-D 1059) Weft Count/ Ne	2/30 <sup>s</sup> ± 5% 2/30 <sup>s</sup> ± 5%
5	Mass (g/m <sup>2</sup> ) ASTM-D 3776	240 + 5% / - 2.5 °A
6	Length in metres , min	2.6 meter for stitching 2 pants
7	Width in cms, min ASTM —D 3774	147
8	Tensile Strength on 5x20cm strip : IS 1969 Warp Strength Kg Min Weft Strength Kg Min.	140 110
9	Crease Recovery, IS 4681 Warp recovery angle, min Weft recovery angle, min	130° 130°
10	Pilling rating IS 10971 (After 18000 revolutions)	4 or better
11	Tear Strength : ASTM — D 1424 Warp Tear Strength gf.,min Weft Tear Strength gf.,min	6400 6400
12	% shrinkage to relaxation max. IS 2977 Warp way Weft way	2 2
13	% shrinkage (hot condition) at 105° ±2° ,max. IS : 11248 Warp way Weft way	2 2
14	pH value of Aqueous extract IS 1390	6 to 8
15	Minimum colour fastness rating to : Light IS : 2454 Washing IS : 764 Rubbing IS : 766 Perspiration IS : 971 Hot pressing, dry & wet IS : 689	5 4 4 4 4
16	Weave	2 / 1 twill weave

## Annexure 5 &amp; 6

Users - Security Staff

Present Specification - TERRY COT KHAKI PANT & SHIRT - 67/33 POLYESTER/COTTON PLAIN  
WEAVE 148/150 CMS WIDTH

Based on IS Specification - Khaki Shirting &amp; Suiting

Sl. No	Specification	Proposed parameters
1	Colour	Khaki Shade
2	Fabric blend Composition % Polyester Cotton	67 $\pm$ 5% 33 $\pm$ 5%
3	Ends / dm (ASTM-D3775) Picks / dm	Terrycot 250 +5% / -2.5% 200 +5% / -2.5%
4	Warp Count/ Ne (ASTM-D 1059) Weft Count/ Ne	2/30 <sup>s</sup> $\pm$ 5% 2/30 <sup>s</sup> $\pm$ 5%
5	Mass (g/m <sup>2</sup> ) ASTM-D 3776	240 + 5% / - 2.5 %A
6	Length in metres, min	5.6 m / 5.8 m for 2 sets of shirt & suit
7	Width in cms, min ASTM — D 3774	147
8	Tensile Strength on 5x20cm strip : IS 1969 Warp Strength Kg Min Weft Strength Kg Min.	140 110
9	Crease Recovery, IS 4681 Warp recovery angle, min Weft recovery angle, min	130° 130°
10	Pilling rating IS 10971 (After 18000 revolutions)	4 or better
11	Tear Strength : ASTM — D 1424 Warp Tear Strength gf.,min Weft Tear Strength gf.,min	6400 6400
12	% shrinkage to relaxation max. IS 2977      Warp way Weft way	2 2
13	% shrinkage (hot condition) at 105° $\pm$ 2°, max. IS : 11248 Warp way Weft way	2 2
14	pH value of Aqueous extract IS 1390	6 to 8
15	Minimum colour fastness rating to : Light IS : 2454 Washing IS : 764 Rubbing IS : 766 Perspiration IS : 971 Hot pressing, dry & wet IS : 689	5 4 4 4 4
16	Weave	1/1 plain

### Annexure 7

Users - Direct / Indirect Female Employees &amp; Executives

Present Specification - 67/33 PC SPUN X SPUN 89/90 CMS WIDTH DYED OF 2.50 MTRS LENGTH EACH AND SHADE AS PER THE BORDER SHADE OF THE SAREES.

Based on IS Specification - Salwar

Sl. No	Specification	Proposed parameters
1	Colour	Cadbury Colour
2	Fabric blend Composition % Polyester Cotton	67 ±5% 33 ±5%
3	Ends / dm (ASTM-D3775) Picks / dm	315 +5% / -2.5% 315 +5% / -2.5%
4	Warp Count/ Ne (ASTM-D 1059) Weft Count/ Ne	2/50 <sup>S</sup> ± 5% 2/50 <sup>S</sup> ± 5%
5	Mass (g/m <sup>2</sup> ) ASTM-D 3776	150 + 5% / - 2.5 °A
6	Length in metres , min	2.5 metre each for salwar
7	Width in cms, min ASTM —D 3774	147
8	Tensile Strength on 5x20cm strip : IS 1969 Warp Strength Kg Min Weft Strength Kg Min.	  140 110
9	Crease Recovery, IS 4681 Warp recovery angle, min Weft recovery angle., min	 130° 130°
10	Pilling rating IS 10971 (After 18000 revolutions)	4 or better
11	Tear Strength : ASTM — D 1424 Warp Tear Strength gf.,min Weft Tear Strength gf.,min	 2000 2000
12	% shrinkage to relaxation max. IS 2977 Warp way Weft way	 2 2
13	% shrinkage (hot condition) at 105° ±2° ,max. IS : 11248 Warp way Weft way	  2 2
14	pH value of Aqueous extract IS 1390	6 to 8
15	Minimum colour fastness rating to : Light IS : 2454 Washing IS : 764 Rubbing IS : 766 Perspiration IS : 971 Hot pressing, dry & wet IS : 689	 5 4 4 4 4
16	Weave	plain



## Annexure 8

Users - Direct / Indirect Female Employees & Executives

**Present Specification - 100% POLYESTER SPUN X 76 DN TEXTURE 117/118 CMS OF 2.50 MTRS LENGTH EACH. THE SHADE/DESIGN SHALL BE AS PER THE SAREE.**

Based on IS Specification - Kameez		
Sl. No	Specification	Proposed parameters
1	Colour	Fawn base with cadbury floral design
2	Fabric blend, Polyester / Cotton %	67 / 33 %
3	Ends/dm ASTM-D3775 Picks/dm	340 ± 5% 340 ± 5%
4	Warp Count/Doubled Yarn(HT) ASTM-D 1059 Weft Count/ Doubled Yarn(HT)	2/100 <sup>s</sup> ± 5% 2/100 <sup>s</sup> ± 5%
5	Mass(g/m2) ASTM-D 3776	100 +5% or -2%
6	Width in cm., min ASTM — D 3774	90
7	Tensile Strength : IS 1969 Warp Strength Kg., min Weft Strength Kg., min	20 20
8	Pilling rating IS 10971	5 or better
9	Tear Strength: ASTM—D 1424 Warp Tear Strength gf., min Weft Tear Strength gf., min	700 700
10	Length in metres, min	2.5 metre each for kameez
11	%shrinkage to relaxation, max IS 2977 Warp way Weft way	1 1
12	% shrinkage (hot condition) at 105° ± 2%, Max Warp way Weft way	1 1
13	pH value of Aqueous extract	6 to 8
14	Minimum colour fastness rating to Light Washing Rubbing Perspiration Hot pressing, dry and wet	5 4 4 4 4
15	Weave	Plain with design

PC yarn

## Annexure 9

Users - Direct / Indirect Female Employees & Executives

**Present Specification** - 100% PLAIN POLYESTER SPUN X 80 DN TEXTURE 99/100 CMS WIDTH - 2.25 MTRS  
DUPATTA. SHADE OF THE DUPATTA AS PER THE BORDER SHADE OF THE SAREE.

**Based on IS Specification - Dupatta**

Sl. No.	Specification	Proposed parameters
1	Colour	Cadbury Colour
2	Fabric blend, polyester in %	100%
3	Ends/dm ASTM-D3775 Picks/dm	350 +5% / -2.5% 350 +5% / -2.5%
4	Warp Count/Ne ASTM-D 1059 Weft Count/Denier	60 ± 5% (High Twist Yarn) 80 ± 5%
5	Mass (g/m <sup>2</sup> ) , ASTM-D 3776	75 ± 5% / -2.5%
6	Width in cm ASTM --D 3774	120 ± 2
7	Tensile Strength : IS1969 Warp Strength Kg., min Weft Strength Kg, min	20 20
8	Pilling rating IS10971	5 or better
9	Tear Strength : ASTM -- D 1424 Warp Tear Strength gf, min Weft Tear Strength gf., min	700 700
10	Length in metres, min	2.25 mtrs.
11	% shrinkage to relaxation, max IS 1299 Warp way Weft way	1 1
12	pH value of Aqueous extract IS 1390	6 to 8
13	Minimum Colour fastness rating to Light - IS 2454 Washing - IS 3361 Rubbing - IS 766 Perspiration - IS 971 Hot pressing, dry and wet - IS 689	5 4 4 4 4
14	Weave	Plain



## Annexure 10

Users - Direct / Indirect Female Employees & Executives

**Present Specification** - 100% POLYESTER SPUN X 76 DN TEXTURE 117/118 CMS WIDTH OF 5.50 MTRS LENGTH EACH, AS PER APPROVED SHADE / DESIGN

**Based on IS Specification - Saree**

Sl. No.	Specification	Proposed parameters
1	Colour	Fawn base with cadbury floral design
2	Fabric blend, polyester / cotton in %	67 / 33%
3	Ends/dm ASTM-D3775 Picks/dm	400 +5% / -2.5% 400 +5% / -2.5%
4	Warp Count/Denier ASTM-D 1059 Weft Count/Denier	60 <sup>s</sup> pc 67/33 HT yarn 60 <sup>s</sup> pc 67/33 HT yarn
5	Mass (g/m <sup>2</sup> ) , ASTM-D 3776	80 +5% / -2.5%
6	Width in cm ASTM —D 3774	120 ± 2
7	Tensile Strength : IS1969 Warp Strength Kg., min Weft Strength Kg., min	30 30
8	Pilling rating IS10971	5 or better
9	Tear Strength : ASTM — D 1424 Warp Tear Strength gf., min Weft Tear Strength gf., min	800 800
10	Length in metres, min	5.5 mtrs.
11	% shrinkage to relaxation, max IS 1299 Warp way Weft way	1 1
12	pH value of Aqueous extract IS 1390	6 to 8
13	Minimum Colour fastness rating to Light - IS 2454 Washing - IS 3361 Rubbing - IS 766 Perspiration - IS 971 Hot pressing, dry and wet - IS 689	5 4 4 4 4
14	Weave	Plain with design

## Annexure 11

Users - Direct / Indirect Female Employees & Executives

**Present Specification - 67/33 PC SPUN X SPUN 89/90 CMS WIDTH OF 1 MTR LENGTH EACH RUBIA BLOUSE. SHADE OF THE BLOUSE MATERIAL MATCHING TO THE BORDER SHADE OF THE SAREE.**

**Based on IS Specification - Blouse**

Sl. No	Specification	Proposed parameters
1	Colour	Cadbury
2	Fabric blend, Polyester / Cotton %	67 / 33 %
3	Ends/dm ASTM-D3775	340 ± 5%
	Picks/dm	340 ± 5%
4	Warp Count/Doubled Yarn(HT) ASTM-D 1059	2/100 <sup>s</sup> ± 5%
	Weft Count/ Doubled Yarn(HT)	2/100 <sup>s</sup> ± 5%
5	Mass(g/m2) ASTM-D 3776	100 +5% or -2%
6	Width in cm., min ASTM — D 3774	90
7	Tensile Strength : IS 1969	
	Warp Strength Kg., min	20
	Weft Strength Kg., min	20
8	Pilling rating IS 10971	5 or better
9	Tear Strength: ASTM—D 1424	
	Warp Tear Strength gf., min	700
	Weft Tear Strength gf., min	700
10	Length in metres, min	1 metre each for Blouse
11	%shrinkage to relaxation, max IS 2977	
	Warp way	1
	Weft way	1
12	% shrinkage (hot condition) at 105° ± 2%, Max	
	Warp way	1
	Weft way	1
13	pH value of Aqueous extract	6 to 8
14	Minimum colour fastness rating to	
	Light	5
	Washing	4
	Rubbing	4
	Perspiration	4
	Hot pressing, dry and wet	4
15	Weave	Plain