

**RAILWAY PROTECTION FORCE**  
**WEST CENTRAL RAILWAY**  
**Specification for suiting cloth khaki for RPF Staff.**

**Description:** Cloth suiting Polyester/Viscose Blended as per following description.

<b>Sl No.</b>	<b>Characteristic</b>	<b>Requirement</b>
01	Approximate Count of Warp & Weft yams	19.8s (Ne)(2f) 19.5s(Ne)(2f)
02	Blend Composition, percent (+/- 3)	
	a) Polyester	67%
	b) Viscose	33%
03	Threads /DM (+5%&-2.5%)	
	a) Warp	417
	b) Weft	260
04	Mass ,g/M <sup>2</sup> (+5%&-2.5% )	221Gram
05	Width ,cm	148cm
06	Breaking Load on 5×20 cm strip,Min	
	a)Warp direction	121.7 Kgs
	b) Weft direction	92.2Kgs
07	Crease recovery angle ,Min (initially & after three repeated washing)	280 Degree
08	Pilling resistance (after 18 000 revolutions)	4 or better
09	Relaxation shrinkage , percent Max	
	a) Warp direction	1.0
	b) Weft direction	1.0
10.	Heat shrinkage , percent Max	
	a) Warp direction	2.0
	b) Weft direction	2.0
11	PH Value of the aqueous extract	6.0-8.0
12	Water soluble matter ,Max Percent	1
13	Colour Fastness	
	a) Light	5 or better
	b) Washing; Test 3 (After 4 washing )	
	1) change in colour	4 or better
	2) staining on adjacent fabric	4 or better
	c) Perspiration	
	1) Change in colour	4 or better
	2) Staining on adjacent fabric	4 or better
	d) Rubbing	
	1) Dry	4 or better
	2) Wet	4 or better

Continue to . . .

**NOTE:**

1. The yarn used in the manufacture of the fabric shall be made from uniform and intimate blend of 67% Polyester & 33% Viscose, Two folds of evenly spun yarn reasonably free from neps and other spinning defects shall be used for both warp and weft.
2. The fabric shall be uniformly woven in plain weave and the selvages shall be firm and straight. The fabric shall be well singed. The fabric shall be "Heat set" and fully shrunk.
3. No major flaws (defects) in the fabric are allowed. A list of major flaws is given in annex B of IS: 11248/1995 latest No flag allowance will be accepted for the major flaw (defects).
4. The number of pieces to be selected at random from a lot for inspection shall be according to clause 7 of IS : 11248/1995 or latest, and method to test as per IS : 11248/1995 or latest.
5. The Manufacturer name or Trade mark shall be woven on the both side of selvages throughout the length using suitable yarn. The same shall be clearly visible even after processing / finishing.
6. Material to be supplied in a cut length of 3.03 Mtr each. Each piece will be packed in button down / seal tape poly bag of 200 gsm approx printed with RAILWAY PROTECTION FORCE, WEST CENTRAL RAILWAY JABALPUR and 50 such pcs to be packed in corrugated carton box of 6 ply with 160 gsm approx duplex board.
7. RAYMOND, DIGJAM, S. KUMAR, VIMAL AND BOMBAY DYING OR SIMILAR ARE ACCEPTABLE.
8. Non type of printing or screen printing will be allowed the cloth or piece. Manufacturer should attach a tag with cloth piece with the Type of material /Batch No / Colour /Length/width/blend/place No / Cartoon No /Mfg year & Month.
9. Material should also confirm with stock sample in respect of feel, finish, shade and general appearance.
10. Supplier should send the packing detail at the time of supply. A packing slip also to pack in each cartoon.
11. Preference will be given to valid iso 9001-2008 or latest certificate holder.
12. Only Manufacture or their dealer offers are acceptable. Dealer should submit an authorization from Manufacture in original for this particular tender.