

No. IV-21011/41/2009-Prov-I
Government of India
Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House,
New Delhi, 16.11.2009

To

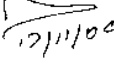
The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject:- Up-gradation of specifications for the CTS items-regarding

The specifications, up-graded/framed by the DGS&D, for the following CTS items, have been accepted by the Competent Authority in MHA:-

- (1) Jersey Woolen 'V' Neck Dyed -Annex-'A'
- (2) Vest Full Sleeve -Annex-'B'
- (3) Ankle Boot Rubber Sole (Jungle Boot)- Annex-'C'
- (4) Boot High Ankle DVS (Improved version)- Annex-'D'

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down up-graded specifications of the said CTS items..


(R.S.Sharma)
Director (Prov)

Copy to:-

DD(Procurement),MHA

Copy for information to:-

PS to JS(PM),MHA

Annex - B

VEST FULL SLEEVES

GOVERNMENT OF INDIA
DIRECTORATE GENERAL OF SUPPLIES & DISPOSALS
JEEVAN TARA BUILDING, 5- SANSAD MARG
NEW DELHI-110001

DRAFT SPECIFICATION FOR VEST FULL SLEEVES

1-FOREWARD-

This specification is prepared taking assistance of specification No- G/TEX W-72/1996 and the experience gained by the department during the past years. Interlock fabric is a double 1 x 1 rib knitted fabric with crossed sinker Wales. The Wales on one side of the fabric are immediately behind the Wales of the other side of fabric. The appearance of this fabric is same on both the sides.

2-SCOPE-

2.1 This specification caters to the need of paramilitary forces i.e. ITBP etc. and various police organizations. This standard prescribes the constructional details & other particulars of under-pants.

2.2 This specification does not specify the general appearance, feel, lustre of whiteness of the vest. This standard covers six sizes of vests.

3- MATERIAL-

3.1 COTTON YARN- The cotton yarn used for knitting Vests shall be spun from combed cotton bleached. The approximate count of yarn shall be 40s.

3.2 POLYESTER YARN- The polyester yarn used in tucking shall be 150 D and number of filaments shall be 150 minimum.

3.3 The spandex yarn shall be used for making cuff stretchable.

3.4 THREAD SEWING SPUN POLYESTER-100 dtex x 3 count and conforming to IS: 9543-1980. v.no.2.

4 MANUFACTURE-

4.1 In shape, the vest shall generally be as shown in FIG-1. The vest shall be tailored neatly out of well and evenly knitted fabric. The Wales shall run along the length of vests.

4.1.1 The body & sleeves of vests shall be knitted on the interlock machine in 5 x 1 tuck stitch with 40s combed cotton bleached & 150 D polyester yarn for tucking.

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4.1.2 Cuff shall be knitted in 1 x 1 rib stitches identical on both sides with 40s combed cotton bleached and spandex yarn. Cuffs shall be double folded and join with sleeves.

5.0 SEAM AND STITCHES- All joining shall be done with flat lock stitch having 3 strand of spun polyester yarn of 100 d tex x3.

5.1 The stitches shall be of even tension, throughout and all the loose ends securely fastened off. The seams and joins shall withstand stretching in all directions to the full extent of the knitted fabric.

6.0 REQUIREMENTS-

6.1 **Dimensions and Mass-** The vests shall conform to the requirements of table -1 read with Fig-1

6.2 The vests shall also conform to the requirements as given in Table -2

6.3 The vests shall be free from the objectionable flaws. The objectionable flaws shall be those which strike immediately the eyes and shall be deemed to include.

- i. Noticeable broken thread in the body;
- ii. Conspicuous broken pattern;
- iii. Large mends;
- IV Ladders;
- V Dropped stitches;
- VI Holes, cuts;
- Vii Missed stitches at the stitched portion;
- Viii Defective bleaching;

7.0 SEALED SAMPLE- If in order to illustrate or specify the indeterminable characteristics such as general appearance, feel and type of finish a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respect.

8.0 Custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

9.0 MARKING- A suitable white cloth label shall be stitched all round on each vests on the inside of the neck opening (back side) on which the following details shall be woven with a fast dyed thread of contrasting shade:

- (a) Name of the material.
- (b) Blend composition.
- (c) Size.
- (d) Manufacturer's Name, initials or trade mark, if any.
- (e) Year of manufacturing.

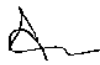


TABLE-1

VEST FULL SLEEVES

Size	Width Across waist (A)	Length of Vest (B)	Length of Sleeve including cuff (C)	Length of cuff (D)	Width of Arm Hole (E)	Depth at Back (F)	Depth at Front (G)	Width (H)	Shoulder Slope (I)	Mass per Vest (Grams) (see note)
85	41	66	49	5.5	19	4.5	16	12	3	1650
90	43	68.5	52	5.5	20	4.5	16	12	3	1850
95	45.5	71	55	6.0	21.5	5	16.5	13	5	2050
100	48	73.5	58	6.0	23	5	17	14	5	2250
105	50.5	76	61	6.0	24	5	17.5	15	5	2450
110	53.0	77.5	64	6.6	25.5	5	18.5	15.5	5	2650
TOLERANCE	+ 1.0 -	+ 2.0 -	+ 1.0 -	+ 1.0 -	+ 1.0 -	+ 0.5 -	+ 1.0 -	+ 1.0 -	+ 0.5 -	

All Dimensions in Centimeters.

Note- A tolerance of -3 percent on the mass of individual vest shall be permissible provided the average minimum mass for 10 vests is maintained.

TABLE -2 REQUIREMENTS OF VEST FULL SLEEVES

S.No	Characteristics	Requirements	Tolerance	Method of Test
a	Blend Composition(excluding bottom of leg portion)	(i) 80 % Cotton (ii) 20 % polyester	+ 5 % -	IS:3416 part-1-1988 R.A.2006
b	Blend Composition(bottom)	(i) 97 % Cotton (ii) 3 % spandex	+ 1 % -	IS:3416 part-1-1988 R.A.2006
c	NO of Wales/INCH on either surface of body (excluding floating polyester thread)	32	+ 2	As per clause A-4 of IS:2360-1977
d	NO of courses/INCH on either surface of body	30	+ 2	As per clause A-4 of IS:2360-1977
e	Cuff (a) Wales/Inch (b) Course/Inch	54 42	+ 2	As per clause A-4 of IS:2360-1977
f	Dimensional Change percent (a) length wise (b) Breath wise	2.5 2.5	Max Max	IS:2977-1989
g	PH Value	6 to 8.0	-	IS:1390-1983(cold method)
h	Scouring Loss %.	2.0	Max.	As per clause A-6 of IS:2360-1977
i	Mass,g/m ²	200	+ 5%	IS:1964-2001.

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10 PACKING- Vests of the same size shall be packed as per specification no- G/TEX/W-72/1996 clause 10.

11 SAMPLING-

(a) A consignment of vests of the same size, delivered to a buyer against a dispatch note shall constitute a lot.

(b) the conformity of the lot to the requirements of this specification shall be determined on the basis of the tests carried out on the samples selected from it.

© Unless otherwise agreed between the buyer and the seller, the number of vests, Depending upon the size of the lot, shall be selected at ransom in accordance with col 2 of table 3.

(d) The sample size and criteria for conformity for each of the characteristics shall be as follows:

Characteristics	Sample size	criteria for conformity
Dimension, Number of waves And courses and freedom From defect	All the vests selected according to col. 2 of Table 3	Non conforming vests not to exceed the corresponding number given in col.3 of Table 3
Mass	All the sets of 10 vests Made from these Selected according To col.2 of Table 3	Each observed value to satisfy the specified requirements.
Composition, dimensional Change, pH value, scouring Loss, mass g/m ² ,	All the vests selected according to col. 4 of table 3	Non conforming vests not to exceed the corresponding numbers given in col. 4 Of table 3


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Table 3 Number of vest to be selected from a lot and

Permissible number of non confirmed vest.

Clause No. 11 (b) & 11 (c)

No. of Vests In the Lot.	Non Destructive Testing		Destructive Testing	
	No. of Vests to be inspected	Permissible No. of Nonconforming Vests	No. of Vests to be inspected	Permissible No. Non conforming Vests
1	2	3	4	5
UP TO 300	10	1	2	0
301 TO 500	20	1	3	0
501 TO 1000	30	2	5	0
1001 TO 3000	50	3	8	0
3001 & ABOVE	80	5	13	1


B. Director Quality Assurance
ए. डी. डायरेक्टर (गुण - प्र. व. सुरक्षा)
The Director (Quality Assurance)

VEST FULL SLEEVES

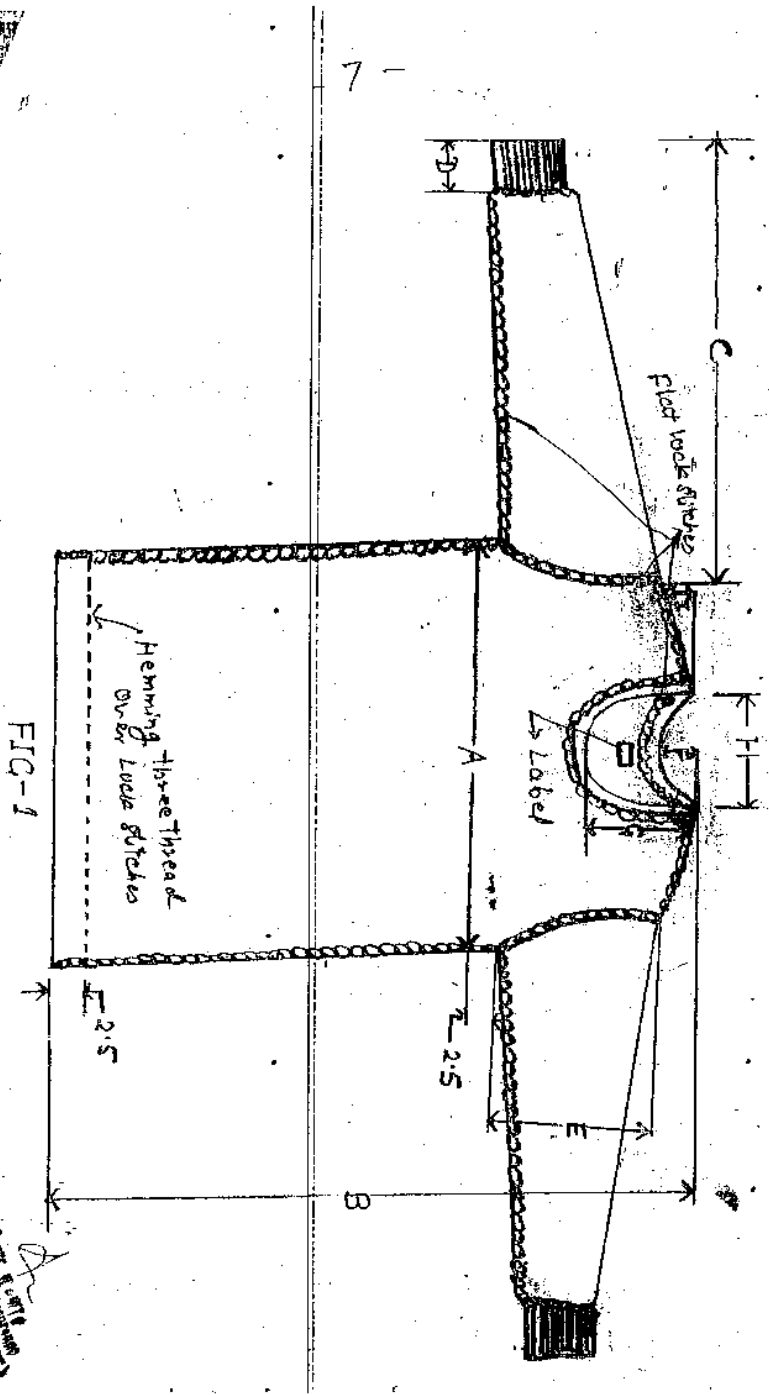


FIG-1

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