#### 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'
- 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..

10/11/09 (R.S.Sharma)

Director (Prov)

Copy to:-

DD(Procurement),MHA

Copy for information to:-

PS to JS(PM),MHA

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

# DRAFT SPECIFICATION FOR ERSEY WOOLLEN 'V' NECK DYED

#### 1-FOREWARD-

This specification is prepared taking assistance of specification no G/TEX/W-69/1992, AIR HQ/IDQAS/AC-017 & IS: 2360-1977 and the experience gained by the department during the past years.

### 2-SCOPE-

This specification caters to the need of paramilitary forces and various police organizations. This standard prescribes the constructional details & other particulars of jersey woollen v neck dyed.

### 3- MATERIAL-

3.1 Jersey shall be manufactured from the following materials.

SI. No	Components	Materials	Particulars
a	Body & Sleeves	Basic knitted fabric dyed	Worsted yarn 55 Tex x 2
b .	Reinforcement of sleeves, shoulder, shoulder straps & pen pockets	Cloth polyester viscose	As per IS: 11248- 1995 amdt. No-2 September 1999
c	Stitching	Thread sewing spun polyester 145	IS:9543-1980.
d	Linking	Worsted yarn 55tex x 2	-
e	Over-lecking	Worsted yarn 55tex x 2	<u> -</u>
f	Buttons	Bútton plastic 13 mm	IS:1461-1984

#### 4- MANUFACTÚRE-

4.1 The body and sleeves shall be knitted independently from worsted yarn of 55 tex x 2 in 2 x 2 rib knit. The cuffs and bottom rib shall be knitted integrally and tightly to

achieve the desired rib-effect. The fabric shall be uniform in shade, texture, and appearance and free from knifting flaws. The cuffs and bottom rib shall contain at least two strengthening rounds.

4.2 The jersey shall be fabricated to the required size and dimensions as given in appendix 'B'. The shape and design of the jersey shall be as shown in the drawing attached (Fig. 1 & 2) to this specification. The total rib cuff shall be 17 cms in length and shall be joined on upper side by flat-lock linking machine and shall be free from

protrusions and looseness.
4.3 The neck opening shall be 'V' shape over-lapping at the bottom keeping the left side welt on upper side at about 45 degree angle. The neck welt shall be of 2 x 2 rib knit of body material and shall be 3 cm wide in double fold. The welt shall be

secured to the body by linking.

4.4 The jersey shall be provided with two shoulder straps. The seam of shoulder (inside top portion) shall be made with overlook stitching and finally with seam covering machine throughout the shoulder seam. In case the neck welt is secured with linking, the overlook stitching of the shoulder shall be completely covered with reinforcement material for strengthening. The shoulder seam and ann pit shall be strengthened with polyester viscose cloth of required shade. Button plastic provided on shoulder at 2 cm away from the neck welt and a button hole shall also be provided one on each shoulder strap 6 mm away from the edge of open end.

Two pen pockets on the upper arm of left sleeve shall be provided with polyester viscose cloth of required shade. The base of these pockets shall be 15.5 cm in length and 6 cms in width. The pockets shall be 12.5 cm in length and 3 cm in width. The

base fabric shall be 8 cm down from shoulder straps joint.
4.6 The shoulder and sleeves at elbow shall be reinforced with polyester viscose cloth as shown in the drawing. The shoulders reinforcement shall be extended on front and back equally to a depth of 11 cm and shall be in one piece without scam/joint on shoulder top. One side of each shoulder reinforcement piece shall be stitched along with joint of body and secves.

Stitching of shoulder reinforcement, sleeves teinforcement, shoulder straps and pen

pockets shall be done with lock stitching with thread sewing spun polyester of

required shade regulated at 4-5 stitch per cm.

4.8 Overlook stitching/linking and seam covering shall be done with one worsted thread as used for knitting in conjunction two threads of thread sewing spun polyester. The stitching tension shall be even throughout with all loose ends fastened and trimined off. The number of stitches per centimeter shall not be less than 4 at any place.

The seams and joints shall withstand stretching in all directions to the full extent of the knitted fabric without breaking or allowing the loop of knitted fabric to run.

5 REQUIREMENTS5.1 Jersey shall conform to dimensions and mass as per appendix 'B'. Other requirements shall be as follows:!

	s follows:-	<u>.</u>		<del></del>	C
S.No	Characteristics		Requirements	Tolera nce	Method of Test
a	Composition	1	All Wool		1S:2006-1998(on dry mass)
b	Wool Quality, (white determined from from from from from from from from	1	64 s as per IS:5911- 1977(except clause 1.2)	-	IS:744-1977
С	NO of Wales/DM either surface	on	i-Body-30(15 x 2 visible rib) ii-Cuffs & Bottom	- \	As per clause A-4 of IS:2360-1977
			Ribs-40(20 x 2 visible rib)		
d	NO of courses/DI either surface	d on	(i) Body-60 (ii) cuff & Bottom Rib- 60	±2 ±2	As per clause A-4 of 18:2360-1977
e	Scouring Loss %	1	4.0	Max	As per clause A-6 of IS:2360-1977
f	Dimensional Change(Due to relaxation)	       	5.0	Max	A-5 of 15:2360-1977
g	PH Value		5 to 7.5		IS;1390-1983( cold method)
h	Colour Fastness (i) Li	o ht	5 or better		IS:2454-1985
		: Ashing	4 or better		IS:3361-1979(test -2)
i			550.0	Min	IS:1670-1991
L	grips) in Gms.		1		J

5.2 Sealed Sample - If in order to imprate of specifically indeterminable characteristics such as general appearance, colour, letter and type for finish a sample has been agreed upon and scaled, the supply shall be in conformity. with the sample in such espect.

5.3 Custody of the scaled sample shall be a matterful prior agreement between the buyer and the seller.

#### 6. MARKING

-1-

- 6.1 A suitable cloth land, white in ground shall be spelled, at ached to each jersey on the inside of the neck opening (Back side kon which the following details shall be woven with a fast aved threacher contrasting
  - a) Name of the material,
  - b) Size;

- c) Fibre composition;
- d) Manufacturer's name, initials octrade market and and
- c) Any other information as required by the buyers

#### 7. PRESERVATION

7.1 The jerseys shall be preserved with maplification country of 5 kg per cubic metre of volume of the bale.

#### 8, PACKING

- 8.1 Jorseys of the same size and shade shall be spaced to accordance with IS: 2518-1964 or IS: 3353-1966 as the

8.2 Alternatively, the jetsevs may be packed by the intrinot given below when specifically agreed to between the buyer and the seller.

Ten jetseys of the same size and shade suitable solders stall be tied with twine or string to form a buildle. The such blindles shall

\*Code for seaworths, packaging of wool hosiery yarn and grieds.

†Code for inland packing of wool hosiery yarn and goods.

be wrapped wit inner layer of polyethylene films of minimiting an outer layer of heavy ose cloth (se IS: 3751-1966); ) or kraft paper (see IS: 1397-1967) Jandhessian clota to form a rectangular bale weighing approximately 35 kg. The overlaps of the inner layers shall be at least 10 cm to ensure full protection to the contents of the bale. The overlaps of the outer layer of heavy cell cloth or hessian shall be such that it cam be provided double 3-pt just twine with not less; than 12 stitches per decimetre taking care not to pierce the inner layers that be pulled out at each corner to form 'ears' of about 15 cm in length. The bale shall be made secure by fastening with at least two bands of steel strips or hoops) or metal wires in each directional by the length and the width of the bale.

#### 9. SAMPLING

9.0 The sampling procedure given below shall give desired projection to the buyer and the seller provided that the lot subject of projection is homogeneous. To achieve this the manufacturer that graduation a state of process control at all stages of manufacture, and shall chaire that a lesses tendered by him for inspection comply with the requirements of this standard in all respects.

NOTE — For effective process control the use of saustical quality a particular managers recommended and a scipful goldance may be obtained in Bir cespert from 15 2397.

- 9.1 Lot In any consignment all jersely of the same size, colour and composition of fibres delivered to a buyer against one despatch note shall
- 9.1.1 The conformity of the lot to the requirements disthis specification shall be determined on the basis of the tests carried out on the samples
- 9.2 Unless otherwise agreed to between the buyer said; the seller of number of jerseys, depending upon the size of the lot shall be selected at random in accordance with col 2 of agreeds as

<sup>&</sup>quot;Specification for low density polyethylene films."

Specification for kraft paper (first revision).

Specification for heavy cer cloth.

Method for statistical quality control during production. Part McControl than variables (first revision).

## NUMBER OF JERSEYS TO BE SELECTED FROM A LOT AND PERMISSIBLE NUMBER OF NON-CONFORMING JERSEYS

#### (Clauses 9.2 and 9.3)

Number of Jerseys	NON-DESTRUCTIVE TO	est <del>u</del> rg .	Destructive Testang					
N THE LOT	Number of Jerseys to be Selected:	Permissible Number of Non-conforming Jerseys	. Number of Jerseys to be Selected	Permissible Number of Non-conforming Jerseys				
(1) Up to 300 301 to 500 501 to 1000 1 001 to 3000 3 001 and above	(Z) 10 20 30 50 80	(3) 1 1 2 3 5	(4) Z 3 (4) 5 ( 8 (4)	(5) 0 0 0 0				

9.3 The sample size and criteria to conformity for various characteristics shall be as follows:

Ch	a ra	ctr	eři9	tic

#### Number of Tests

#### Criteria for Conformity

# Freedom from defects, dimensions and number of Wales and

All the erseys selected according to col 2 of Appendix(A) Non-conforming jerseys not to exceed the corresponding n u m b e r given in côl 3 of Appendix(A)

#### courses Mass

Specification for wool tops, breaking load of knitting yarn dimensional change scouring loss, pH value, colour fastness to washing fibre composition.

All the jerseys selected according to col 4 of Appendix(A) Each observed value to satisfy the specified requirement.

Number of non-conforming forming jerseys not to exceed the corresponding number given in cot 5 of Appendix(A)

#### Colour fastness to Light

\*One in case of lot size of 500 jerseys and two above that

Each jersey to satisfy the specified requirement

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	<u> </u>	:1- <u>2</u>				57		<u> </u>	48	C	up culf	furned	including:	Sicey'es	Length of	Total	
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Appendix 'B'

LE MEASURENIENTS IN CENTIMETERS

DIMENSIONS AND MASS



