



MDITD

PN/MDITD/03/88756

58410

See Distribution

20 January 2016

AMENDMENT IN PN SPECIFICATIONS- CARE LABEL INSTRUCTIONS

Following addition is to be included/ incorporated in PN Specifications of clothing items listed at Annex A, at para numbers mentioned against each:

**Care Label** Care instructions in English and Urdu shall be attached with clothing items and should have following instructions, as applicable:

- Washing instructions.
- Drying instructions.
- Ironing instructions
- Any Prohibitions.

MUHAMMAD TAHIR  
KARIM  
Capt PN  
DITD

Annex:

A. List of PN Specifications

Distribution:

External:

Action:

DNS

CINS

DP NAVY

CO PNCSD

INWARD MAIL	
INWARD NO	405/237
DATE	20/1/16
CAPT	
EXO	
GO (PG)	
GO (LP)	
SECY	
ACTION BY	R&D
ACTION DATE	

Go, / Go PG

Pn u/a.

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dated 21/2/16  
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21/2/16

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Information:

COMDEP

Attn: SSO

HQ COMLOG

Attn: SSO

Internal:

Information:

MDITD

Attn: DM TEXTILE

DITD

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PN/MDITD/03/88756 approved by DITD Capt PN Muhammad Tahir Karim on 20 Jan  
2016

Note: Computer generated documents do not require signature



**ANNEX A****LIST OF PN SPECIFICATIONS**

S#	SPECIFICATION NO	DESCRIPTION	DATE	ADD PARA
1.	PN Specs 06/2014	Ground Crew Jacket Antistatic	10 Nov 14	21
2.	PN Specs No 08/2013	Coverall Blue 100% Cotton	11 Jun 13	15.2
3.	PN Specs No 07/13	T-Shirt SSG (N) Camouflage	28 Mar 13	15.2
4.	PN Specs No 05/13	T-Shirt Pak Marine Camouflage	28 Mar 13	15.2
5.	PN Specs No 03/13	T-shirt Grey	28 Mar 13	15.2
6.	ITD/SPECS/SHALWAR AND KAMEEZ/01/09	Shalwar and Kameez (Wash-n-Wear) CPOs/ Sailors	27 Oct 09	24
7.	ITD/SPEC/Cap Beret/Black/01/10	Cap Beret Black	18 Sep 09	20
8.	PN UNIFORM 32A /2004	Dress Khaki for PNP	12 Aug 04	14
9.	PN UNIFORM 32B/2004	Dress Khaki for PNP	12 Aug 04	12
10.	PN/UNIFORM/15/2002	Overall Aviation Ground Crew Polyester/ Cotton	14 May 02	15
11.	PN/UNIFORM/14/2001	Vest Summer cotton	13 Dec 01	11
12.	PN/UNIFORM/02/2001	Trouser Serge Blue Dress No 8 CPOs/Sailors	28 Jun 01	18
13.	PN/UNIFORM/03/2001	Cloth white shirt Dress No 8 Officers, CPOs/ Sailors	06 Jun 01	15
14.	PN/UNIFORM/07/2000	PN Fire Brigade Personals Dress	13 Jun 00	12
15.	PN/UNIFORM/05/2000	Dress No. 3	09 Jun 00	17
16.	PN/UNIFORM/06/2000	Jersey Black Ribbed Pattern CPOs/ Sailors (Pak Marines)	12 Jun 00	14
17.	PN/UNIFORM/01/99	Dress No 1	13 Jan 99	17
18.	PN/UNIFORM/06/97	Overall Moss Green (Poly/Cotton)	08 Dec 98	13
19.	PN/UNIFORM/11/98	Jersey Black Ribbed Pattern CPOs/ Sailors	03 Nov 98	14
20.	PN/UNIFORM/05/97	Overall white Poly/ viscose for Officers	17 Nov-96	13
21.	PN/UNI/12/96	Socks White	13 Nov 96	12
22.	PN/UNI/11/96	Socks Black	13 Nov 96	12



PAKISTAN NAVY SPECIFICATIONFORJERSEY BLACK RIBBED PATTERN – CPOs / SAILORS (PAK MARINES)(DRAWING NO. TD-1462 DATED 8-6-2000)FOREWORD

1. This specification is promulgated by Inspection and Technical Development Directorate, Naval Headquarters, Karachi, to provide necessary guidance to the potential manufacturers/suppliers of the items mentioned herein. This specification is to be used for testing and deciding upon acceptance, or otherwise, of the items mentioned. Any alteration or addition in this specification can be suggested to ITD Directorate, however, it can not be implemented without approval of DITD. This specification supersedes all other specifications promulgated earlier in relation to the items mentioned herein.

SCOPE

2. This specification covers manufacturing/inspection requirements of Black Jersey to be used by Pak Marines CPOs / Sailors of Pakistan Navy.

MATERIAL SPECIFICATIONS3. BASE MATERIAL

a.	Material	70% (wool) 30% (Nylon)
b.	Colour	Black (BCC 220)
c.	Description	The jersey shall be knitted in ribbed pattern from wool & Nylon. The yarn shall be of good quality evenly spun on worsted system, free from spinning defects.
d.	Type of Wool	High quality wool
e.	No. of Microns	32
f.	Count of yarn	2/7
g.	Quality of Yarn	Worsted
h.	Grade	
	Wool:	Desirable 48 s
	Nylon:	4-5 Denier
j.	Fibre Length (mm)	Wool: 80 (Min) Nylon: 80-120

CARE LABEL

Care instructions in English and Urdu shall be attached with Clothing items and should have following instruction, as Applicable.

- Washing instructions.
- Drying instructions.
- Ironing instructions.
- Any Prohibitions.



## k. Weight

Average Nominal weight of 10 Jerseys as under:

Size 34:	8.25 kg
Size 36:	8.50 kg
Size 38:	8.75 kg
Size 40:	9.00 kg.

4. MATERIAL FOR ELBOW AND SHOULDER PATCHES

a.	Material	Cloth Drill mercerized 100% Cotton
b.	Colour	Camouflage-Green based (As per Specification No. PN/Uniform/02/98)
FOR: c.	Weave	Twill 3/1 <i>Twill 1x2 (read)</i>
READ: d.	Nature of Dye	Vat
e.	Weight (gm/sq m)	250 $\pm$ 10
f.	Threads per inch (1) Warp (2) Weft	120 $\pm$ 5 50 $\pm$ 5
g.	Count of Yarn (1) Warp (2) Weft	36 s/2 } <i>warp - 36s/2 (FOR)</i> 36 s/2 } <i>weft - 35s/2 (FOR)</i>
h.	Shrinkage (1) Warp (2) Weft	<i>warp - 16s/2 (READ)</i> <i>weft - 12s/2</i> 2 % (Max) 2 % (Max)
j.	Scouring Loss	2 % (Max)
k.	Manufacturing	Grade 'A' fabric using high quality yarn, weaved on process shuttleless looms, mercerized and sanforized finish.

5. STITCHING/ OVER LOCKING THREAD

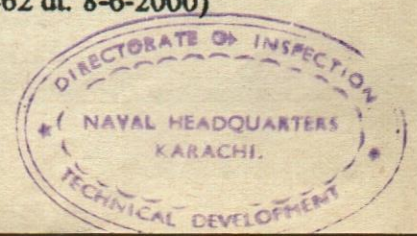
a.	Material	100% polyester ✓ <i>(FOR)</i>
b.	Shade	Black (BCC 220) <i>overlocking thread</i>
c.	Grade	3/24 s <i>25% Polyester &amp; 75% woolen</i>
d.	Breakage Strength	3 lbs (Min) <i>(READ)</i>

6. BUTTONS

a.	Material	Polyvinyl/Plastic
b.	Shade	Black (BCC 220)
c.	Shape	Round, with four sewing holes (Ref. drawing No. TD-1462 dt. 8-6-2000)

Vide DITD Letter PD/2400/10/Gen/4/629  
dated 29 May 2011

(AMENDMENT IN SPEC - JARSEY  
BLACK) P-2 of 4





7. COLOUR FASTNESS

All Yarns and fabrics used in the jersey shall qualify the following tests, as per standards mentioned against each.

- |     |   |            |
|-----|---|------------|
| a.  | <u>Colour Fastness to Washing</u><br>(ISO 105-C03-1978(E))      | Test No.3  |
| (1) | Test specimen   | GS 4 (Min) |
| (2) | Staining on attached pieces                                     |            |
|     | Wool  | GS (4/5)   |
|     | Cotton  | GS (4/5)   |
| (3) | Change in shade   | GS 4 (Min) |
| b.  | <u>Colour Fastness to Perspiration</u><br>(ISO 105-E04-1978(E)) |            |
|     | Acid & Alkaline Solution  |            |
| (1) | Test specimen   | GS 4 (Min) |
| (2) | Staining on attached pieces.                                    |            |
|     | Wool  | GS (4/5)   |
|     | Cotton  | GS (4/5)   |
| (3) | Change in shade   | GS 4 (Min) |

MANUFACTURING DETAILS

8. For all dimensional details, the schedule of measurement (Annex 'A') and Drawing No. TD-1462 dt.8-6-2000 (Enclosed) shall be consulted. Following manufacturing details are provided in addition to the material specification :

- a. The Jersey shall be knitted in ribbed pattern as per drawing.
- b. The Jersey shall have a 'V' shaped neck with double welting.
- c. The sleeves including cuffs will be made in one piece i.e the cuff will be knitted 1/1 Ribbed of 1/80.5 Tex Double yarns in continuity and shall be double folded. The free end shall be overlapped inside the sleeve at the same line from where reduced needles for cuffs have been adopted in such a way that the length of the double folded finished cuff is 102 mm. The width of the cuff will be as per size scale.
- d. The sleeve shall have re-enforcement patch at elbow as per shape and design in the drawing. The patch shall have two stitching lines running parallel all-round the patch.
- e. Sleeves shall not be loose at any part of the arm.
- f. The jersey shall have two pockets with flaps. Pockets shall be made of camouflage cotton cloth. Size of the pockets shall be as per drawing. Pocket flaps shall be made of same wool material and pattern with camouflage cloth enforcement underneath.
- g. Pocket flaps shall have button holes.





h. The shoulder flaps shall be made of wool material and pattern with cotton cloth reinforcement underneath. The flap shall be stitched at crown of sleeve such that centre of flap base lies on shoulder seam. The flaps shall be secured with buttons on the other end near neck.

j. The bottom of the jersey shall be re-enforced by splicing yarn 1/80.5 Tex to a distance of 150 mm. Jersey bottom border shall also be knitted with increased tension as per cuffs.

k. Each jersey shall have manufacturer's label stitched as indicated on drawing. Jersey size shall be indicated on the same label.

l. Tender sample to be approved by CINS.

#### INSPECTION DETAILS

9. Following materials shall be supplied at the time of tendering.

(a)	Base material	X	500 Grams
(b)	Cloth Drill	X	03 Meter
(c)	Stitching thread		50 Grams
(d)	Buttons		06 Nos.
(e)	Finished Jersey		03 Nos.

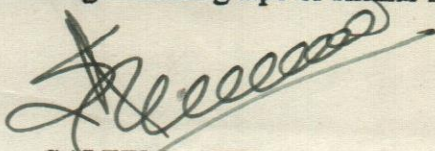
10. While inspecting bulk supply, 20% of total supply may be inspected for finishing and 1% of total supply may be tested for material quality.

11. A failure of 20%, out of the total quantity inspected, will be considered as recommended for rejection of complete supply.

#### PACKING INSTRUCTIONS

12. Each jersey shall be properly folded and enclosed in polythene bags with two naphthalene balls placed inside each bag.

13. The jerseys shall then be packed in double walled corrugated cartons, (3 dozen in each carton). Complete sealing of box shall be ensured through masking tape or similar material.

  
SALEEM AKHTAR  
CAPTAIN PAKISTAN NAVY  
DIRECTOR

Annex:

A. Schedule of measurement

Encl: Drawing No. TD-1462 dt.8-6-2000



**SCHEDULE OF MEASUREMENT & WEIGHTS**  
**JERSEYS MADE OF 70% WOOL & 30% NYLONE**  
**FOR**  
**PAKISTAN NAVY CPOs/SAILORS (MARINERS)**  
(All dimensions are in mm)

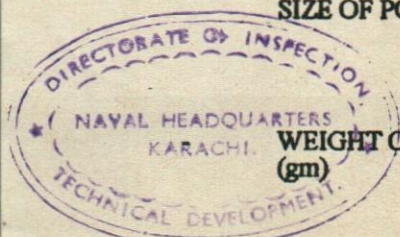
Drg. Ref.	Description	S 32	I 34	Z 36	E 38	40	42	Tolerance
A	ROUND CHEST	810	860	910	950	1010	1060	± 10
B	ROUND BOTTOM	660	720	760	810	860	910	± 10
C	LENGTH OF BODY	660	670	680	690	700	710	± 10
D	WIDTH ACROSS SHOULDER	410	430	460	480	510	530	± 10
E	LENGTH OF SLEEVE INCLUDING CUFF	520	540	560	580	600	620	± 10
F	WIDTH OF ARM HOLE	220	230	240	250	260	270	± 5
G	WIDTH OF SLEEVE END	100	110	110	120	120	130	± 5
H	DEPTH OF NECK OPENING FROM NECK SEAM TO CROSSING OF WELT BAND	150	160	170	180	180	190	± 5
J	WIDTH OF BACK OF NECK	150	160	170	170	180	180	± 5
K	DISTANCE FROM SHOULDER SEAMLINE TO TOP OF POCKET FLAP	215	220	225	230	235	240	± 5
L	SHOULDER FLAP LENGTH & WIDTH							
	LENGTH	130	140	150	160	170	180	± 5
	WIDTH	65	75	75	75	75	75	± 5

**OTHER IMPORTANT DIMENSIONS**

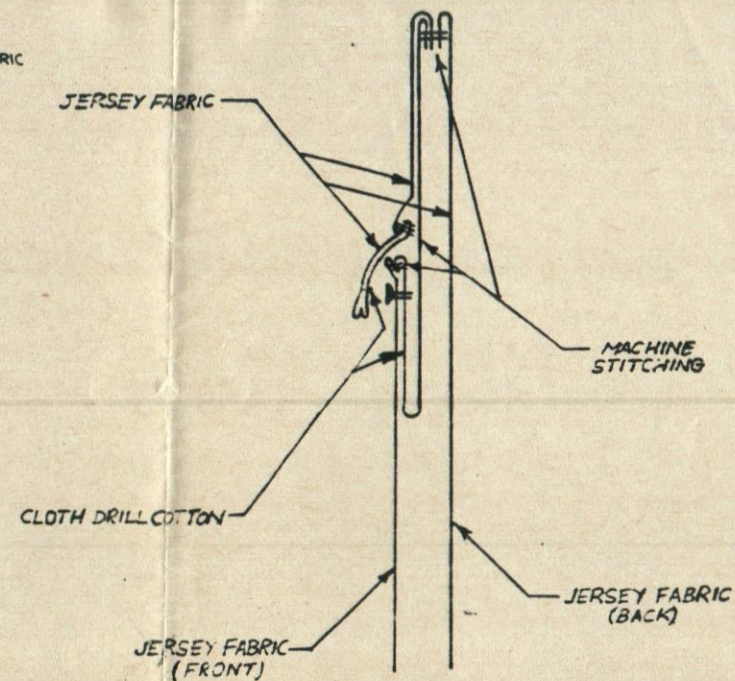
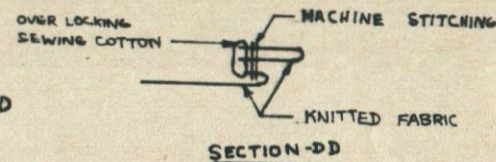
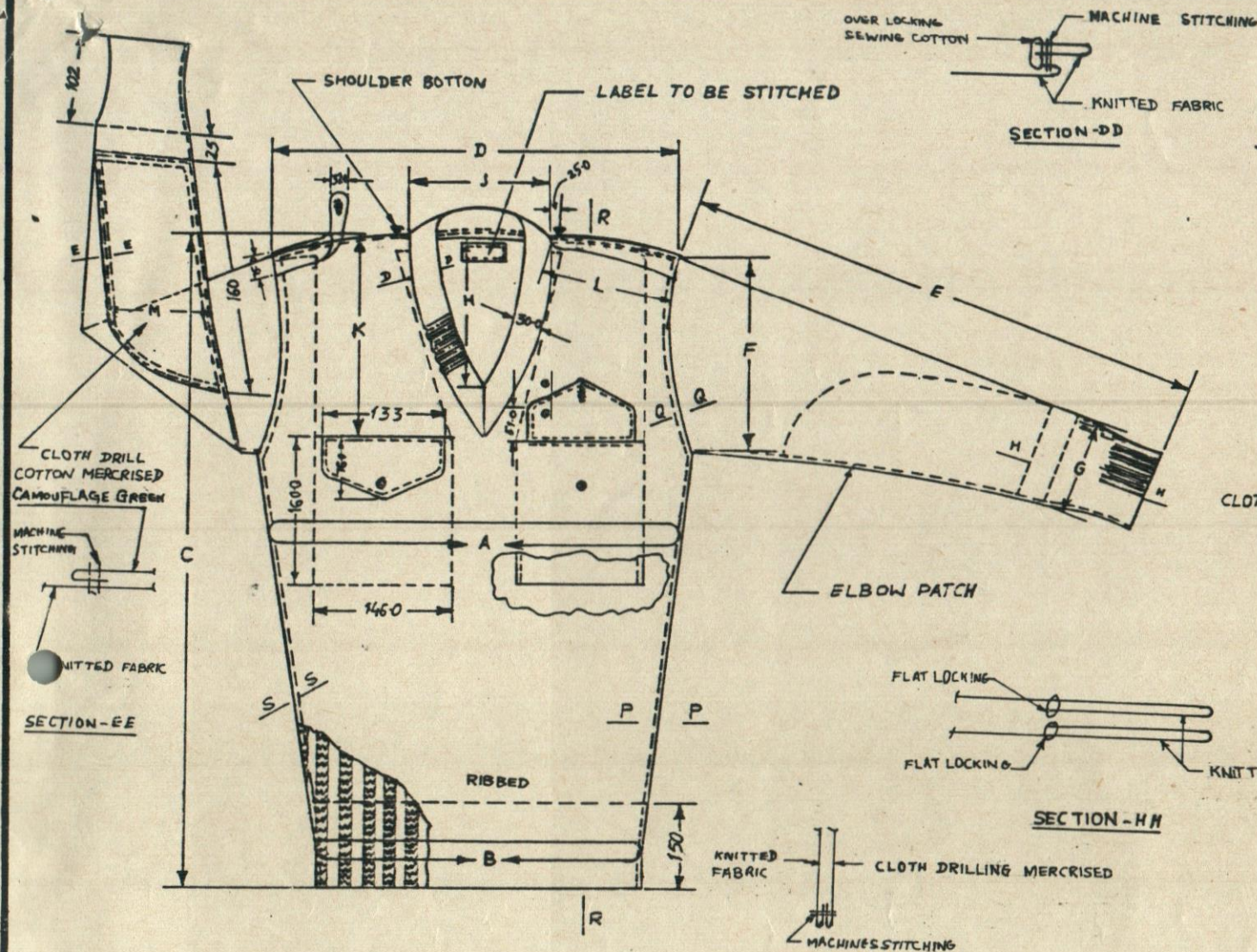
-	DEPTH OF WELT ON NECK OPENING (DOUBLE MATERIAL)	30	30	30	30	30	30	± 2
-	LENGTH OF BORDER AT BOTTOM	150	150	150	150	150	150	± 5
-	LENGTH OF BORDER AT CUFF	102	102	102	102	102	102	± 5
-	SIZE OF POCKET - DEPTH	160	160	160	160	160	160	± 10
	WIDTH	146	146	146	146	146	146	± 10
	SIZE OF POCKET FLAP							
	WIDTH	140	140	140	140	140	140	± 5
	DEPTH	133	133	133	133	133	133	± 5

WEIGHT OF JERSEY  
(gm)

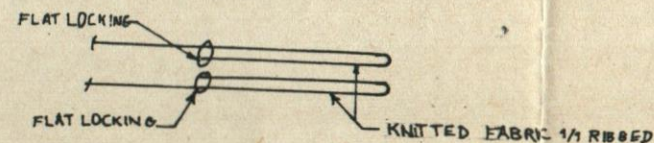
AS PER APPROVED STOCK SAMPLE.







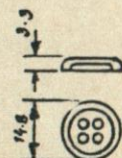
SECTION-RR



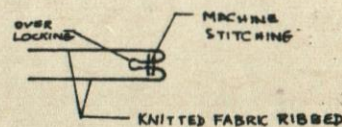
SECTION-HH



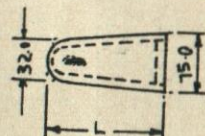
SECTION-EE



SECTION QQ



SECTION PP



BUTTON

DITD NHQ KARACHI		
TITLE JERSEY BLACK RIBBED FOR CPOs/SAILORS (PAK MARINE)		
DRG: NO. TD-1462/2000	SCALE: N.T.S	
DATE: 08-06-2000	DIMENSIONS: M:M	
DRAWN	CHECKED	APPROVED
M. ASGHAR D/MAN	CDR. M.J.M. MALIK DDITO	CAPTAIN SALEEM AKHTAR DITD