



PAKISTAN NAVY SPECIFICATION 01/2018

PROMULGATION DATE: 26 Mar 2018

**GENERAL SERVICE DIGITAL**  
**CAMOUFLAGE**  
**DRESS NO 4B (AFLOAT) 100%**  
**COTTON**

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**AMENDMENT RECORD**

<b>Amd No</b>	<b>Date</b>	<b>Text Effected</b>	<b>Signature and Date</b>

**REVISION NOTE**

The specification has been prepared to bring the test methods and procedures into line with up-to-date. PN requirements and facilities held in Pakistan. CINS may request to amend any test requirement/ test procedure in light of the experience emanating from its inspection history, through the feedback form placed at Annex J. However, such an alternation will be effective when the amendment is promulgated by this Directorate, and will be effective on the contracts which materialize after the promulgation date of respective amendment.

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## 1. **DESIGNATION**

General Service Digital Camouflage (GSDC) Dress No. 4B (Afloat) 100 % Cotton (Bush Jacket, Trouser, PAK NAVY soft tally and Camouflage Jockey Cap)

## 2. **USAGE**

2.1 This dress will be used by Officers, CPOs and Sailors of Pakistan Navy on afloat vide NHQ letter PN/NS Dte/03/878204 dated 30 Nov 17.

## 3. **INTRODUCTION**

3.1 This specification is prepared by Directorate of Indigenous Technical Development, 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 cannot be implemented without prior approval of DITD. This specification supersedes and replaces PN Specifications No. 03/2017 and PN Specification 04/2017 promulgated earlier in relation to the items mentioned herein.

3.2 This specification booklet includes 09 Annexes, and consists 33 pages, including the cover.

## 4. **SCOPE**

4.1 This specification covers the manufacturing / inspection requirements of cloth made from cotton to be used in the manufacturing of uniform, namely General Service Digital Camouflage (GSDC) Dress No. 4B (Afloat) 100 % Cotton (Bush Jacket & Trouser) to be used by personnel of Pakistan Navy. This specification lays down the standard to which the stores shown under designation above should conform. It defines and lays down the quality, standard and details of materials, workmanship and finish. It also lays down the details of sampling, testing, inspection rejection, marking, preservation, packing and delivery etc.

4.2 The supplier/ manufacturer shall comply in every respect with the terms of this specification and ensure that the stores conform to it, in all respects.

## 5. **RELATED DOCUMENTS**

5.1 The standards and documents that have been referred to in this specification are:

a.	ISO 1833	Textile – Quantitative chemical analysis
b.	ISO-3801	Determination of mass per unit length and area
c.	ISO-7211/2	Determination of number of threads per unit length
d.	ISO-7211/5	Determination of linear density of yarn removed from fabric
e.	ISO-105-C03	Colour fastness to Washing test No. 3
f.	ISO-105-E02	Colour fastness to Seawater test
g.	ISO-105-X12	Colour fastness to Rubbing test
h.	ISO-105-E04	Colour fastness to Perspiration
j.	ISO 13934-01 1999	Textile- Tensile properties of fabrics (strip method)
k.	ISO 13937-01 1999	Textile- Tear properties of fabric (Elmendorf )
m.	AATCC 128-2009	Wrinkle Recovery of fabric
n.	AATCC 79-2010	Absorbency of Textiles
o.	ISO 9237:1995	Determination of permeability of fabric to air
p.	AATCC 195:2010	Test for evaluation of Moisture Management
q.	ASTM D 1230	Flammability of Apparels

r.	ISO 6330 (3A)	Domestic washing and drying procedures for textile testing
s.	BS EN ISO 12945-2	Determination of fabric propensity to surface fuzzing and to pilling
t.	BS EN ISO 12947-4	Determination of the abrasion resistance of fabrics by the Martindale method
u.	BS EN 25077	Determination of Dimensional Change in washing and drying
v.	ISO 3071	Determination of pH of aqueous extract
w.	AATCC 16 option 3	Colorfastness to light
x.	BS 4162	Methods of test for buttons
y.	AATCC 133	Colorfastness to hot press
z.	ASTM D 5171	Standard test method for impact resistance of plastic sew through buttons
a1.	ASTM D5169	Dynamic shear strength of hook and loops touch fastener (Velcro)
a2.	ASTM D 5170	T Peel Strength of hook and loop touch fastener (Velcro)

## 6. **TERMS & DEFINITIONS**

6.1 Definitions for the terms used in this standard are given at Annex G.

## 7. **TECHNICAL DETAILS FOR GENERAL SERVICE DIGITAL CAMOUFLAGE (GSDC) DRESS NO. 4B (AFLOAT) 100 % COTTON**

7.1 The technical details of General Service Digital Camouflage (GSDC) Dress No. 4B (Afloat) 100 % Cotton is given at Annex A of this specification.

## 8. **MANUFACTURING DETAILS FOR GENERAL SERVICE DIGITAL CAMOUFLAGE (GSDC) DRESS NO. 4B (AFLOAT) 100 % COTTON**

8.1 Manufacturing details of General Service Digital Camouflage (GSDC) Dress No. 4B (Afloat) 100 % cotton will be as per Annex B of this specification.

## 9. **QUALITY OF WORKMANSHIP AND FINISHING**

9.1 Workmanship and finish of the General Service Digital Camouflage (GSDC) Dress No. 4B shall be equal to the sealed sample. It shall be best of its class and to the entire satisfaction of the inspector.

## 10. **TESTING**

10.1 The material shall be subjected to tests laid down in this specification at Annex A of this specification and related documents. At least one complete dress and 03 meter fabric will be required to complete all the tests mentioned at Annex A of this specification. The material may also be subjected to such tests which are deemed necessary by the inspection authority in order to determine their suitability. Inspecting Authority reserves the right to get any B/R samples tested from any reputable Laboratory other than PN. However, any test considered important by Inspecting Authority other than Annex A may also be conducted in order to check its suitability.

## 11. **TENDER SAMPLE**

11.1 Tender sample to be approved by INS

11.2 For each contract following material shall be supplied by the manufacturer at the time of tendering.

a.	Finished Garment	–	03 Nos.
b.	Fabric	–	05 Meter

c.	Fused Buckram	–	01 Meter
d.	Buttons	–	05 Nos.
e.	Stitching Thread	–	50 Grams
f.	Velcro	–	0.5 meter
g.	Waist adjustment Tape	–	02 No.s

## 12. **ADVANCE SAMPLE**

12.1 Advance sample or pre-production sample, when required, shall be submitted in accordance with terms of the contract for inspection, testing and approval by CINS. The minimum quantities required are 05 dresses along with samples of materials used in manufacturing of garments for inspection.

12.2 Whenever Tender, Advance or pre-production sample is not required, the suppliers / manufacturer are advised in their own interest to submit to the Inspecting Officer or his representative an initial delivery of One % of the contract or ten dresses, whichever are more along with samples of materials for inspection.

12.3 The approval of the sample mentioned in Para 11 & 12 authorizes the commencement of bulk production but does not relieve the suppliers/ manufactures from compliance with all the provisions of this specification. One approved sample shall be properly sealed by INS and returned to the firm for guidance; rest of the approved sample shall be retained by INS for future use in bulk Inspection.

12.4 The Pre-production sample shall be manufactured by the manufacturer with the same facilities which will be used for manufacturing of the bulk items.

12.5 Firm shall provide advance sample along with quality verification reports of fabric from an accredited laboratory to ensure in process inspection/ quality procedure of the firm.

## 13 **INSPECTION**

13.1 **Bulk representative sample** B/R random sampling will be carried out as per rules in vogue.

13.2 **Bulk Inspection** Bulk inspection will be carried out after satisfactory completion of Visual Examination and Testing of B/R Sample.

13.3 **Inspection of Store** 100% of the offered store shall be inspected. The guide lines for such examination/inspection are listed at Annex H. Stage inspection of Dresses be carried out as deemed appropriate.

13.4 **Inspection/ Acceptance and Rejection of Stores** Inspection/ acceptance is to be carried out to the satisfaction of Chief Inspector Naval Stores.

13.5. The dresses shall be examined for the correctness of material, shape, design, dimension, size, workmanship and finish.

13.6. All dresses shall be inspected w.r.t defective shape, discoloration/ fading, pinholes, closing of dresses are to be especially checked.

13.7. CINS reserves the right to reject the whole supply in case, upon examination, material or packing of any sample or portion of the consignment is found NOT CONFORMING to this specification.

13.8. If on examination of 5% of any delivery, 20% of those examined from bulk supply are found NOT CONFORMING to this specification in respect of the pattern, dimensions, workmanship and finish, the whole consignment may be rejected without any compromise.

13.9. All stores and packing NOT fully in accordance with this specification shall be rejected.

13.10. Dresses with major defects as described in Annex H of this specification will be rejected.

13.11. **Responsibility for Inspection** The supplier is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. PN reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

13.12 **Responsibility for Compliance** The inspection set forth in this specification shall become a part of the supplier's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to PN for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements, however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit PN to acceptance of defective stores (material).

13.13 **Replacement by the Contractor** The supplier/ manufacturer is responsible for replacement of the consignment or any part thereof whenever it is found to be not conforming to this specification. The supplies so tendered in replacement, shall be subjected to testing/Inspection and acceptance by the Inspecting Officer.

13.14 **Responsibility for Safety** The supplier/manufacturer is wholly responsible for the safety of supplies during inspection, storage at firm's premises, proper packing, dispatch and delivery up to consignee.

14. **STAMPING OF ACCEPTED/ REJECTED STORES BY THE INSPECTOR** Following instructions are to be followed:

14.1 **Stamping of Accepted Stores** Each acceptable Dress shall be stamped with Inspector's Individual Acceptance Mark. The stamping shall be legible.

14.2 **Stamping of Rejected Stores** The rejected Dress shall be marked with Inspector's Rejection Mark to avoid re-submission by the supplier.

14.3 The Inspector is the authority in all matters pertaining to inspection.

## 15. **SPECIAL INSTRUCTIONS**

15.1 **CARE INSTRUCTIONS** Care instructions in English and Urdu shall be attached with each Dress as indicated in the drawing and have minimum requirement as follows:

- Washing procedure.
- Drying procedure.
- Any Prohibition.

16. **PACKING DETAILS** The store when ordered to be delivered 'PACKED' shall be packed as per following instructions:

- The Dress shall be packed in a neat, dry and clean condition in standard polyethylene.
- 10 Dresses shall be further packed in a thick Boxboard.
- Each Box Board packing shall be securely and properly packed.
- Each box board shall consist of same size.

17. **IDENTIFICATION LABEL** Each Dress shall bear following minimum information mentioned on identification label, attached as indicated in the drawing:

- a. Item name/ item description with NSN/Pattern No.
- b. Material Composition and size
- c. Contract number and Date
- d. Year of manufacture
- e. Contractor's name, initials, or trade mark
- f. Batch no.

18 **PACKING LIST** Firm is bound to provide a packing list of store offered for inspection alongwith the challan, which include complete details about the store i.e Pattern No., Designation, quality packed, size, quantity, contract No, and Date, Challan No. and Date. A packing list shall be enclosed after completion of inspection with each packed box giving full details about the stores packed i.e. Pattern No., Designation, quality packed, size, quantity, contract No, and Date, I/Note No. or voucher No. and date, consignee, Consignor, Date of packing and packer's signature.

19. **MARKING OF STORES** In addition to any special marking required by contract or order, the marking of packages shall be stenciled with quick drying Black ink/ Paint in accordance with Specification No. NS/MISC/002/80 with clearly defined characters as described below:

- a. On Front and Top
  - (1) Catalogue No and Designation of the store packed.
  - (2) Contract No and date.
  - (3) Quantity of the Item packed.
- b. On Back
  - (1) Consignee address.
  - (2) Designation i.e Railway Station.
  - (3) Weight of the Package.
  - (4) The No. of individual Package and the total No of Packages in the consignment joined by the Word 'of 'e.g. 2 of 300.
- c. On Bottom
  - (1) Consignor's Name.
  - (2) Voucher No. or inspection note no. and date.
  - (3) Month and year of packing.

20. **DELIVERY**

20.1 The consignment of store will be delivered in accordance with the terms of contract.

20.2 The store shall be delivered in Brand new, clean and dry condition.



20.3 The contractor / manufacturer is fully responsible for the safety of the supplies during inspection, storage at firms premises proper packing, dispatch and delivery up to consignee.

**XXXXSDXXX**

**AZHAR MIR**

Commander Pakistan Navy

Director

Annexes:

- A. Technical details for General Service Digital Camouflage (GSDC) Dress No. 4 B (Afloat) 100 % Cotton
- B. Manufacturing details for General Service Digital Camouflage (GSDC) Dress No. 4 B (Afloat) 100 % Cotton
- C. Technical details of PAK Navy Soft Tally
- D. Manufacturing details of Pak Navy Soft Tally
- E. Technical details of Camouflage Jockey Cap / Sea Cap
- F. Manufacturing details of Camouflage Jockey Cap / Sea Cap
- G. Terms & Definitions
- H. Guidelines for Inspection – Specific Parts Defects
- J. Feedback Form

Distribution:

DP (N)

CINS

DNS

CO PNCSD

**TECHNICAL DETAILS FOR GENERAL SERVICE DIGITAL CAMOUFLAGE (GSDC) DRESS**  
**NO. 4B (AFLOAT) 100% COTTON**

S NO	ITEM	REQUIREMENT
<b>BASE FABRIC MATERIAL SPECIFICATION (RIBBED CAMOUFLAGE CLOTH)</b>		
1.	Material	100% Cotton
2.	Count of Yarn	Warp $20^s \pm 2$ (29.5 $\pm$ 2 Tex) Weft $16^s \pm 2$ (37 $\pm$ 2 Tex) Ring spun Combed yarn shall be used
3.	Threads per Inch	Warp $123 \pm 5$ (Ends) Weft $63 \pm 5$ (Picks)
4.	Colors Scheme	Black 19-1101 TCX Dark Grey 18-4006 TCX Medium grey 17-4405 TCX Light grey 15-4003 TCX Grey 16-4702 TCX Pastel Grey 13-4303 TCX Or As per approved sample held with CINS
5.	Weave Pattern	Twill weave 2/1 + Rip Stop
6.	Threads /Rip	Warp 2 each single Weft 2 each single
7.	Size of Rip	Warp $6\text{mm} \pm 1\text{mm}$ Weft $6\text{mm} \pm 1\text{mm}$
8.	Weight (gm/sq.mtr)	$245 \text{ gm} \pm 2\%$
9.	Finish	Mergerize, pre- shrink by sanforize and hydrophilic softener (nano finish)
10.	Finish width	59"
11.	Nature of Dye	Ground Print Vat dye Vat print
12.	Digital Camouflage Design Pattern	As per Appendix I and approved sample held with CINS
<b>BASE FABRIC PERFORMANCE TESTING</b>		
1.	Color fastness to washing a. Change in Shade b. Staining	GS: 4 or better GS: 4 or better
2.	Color Fastness to Rubbing (Dry) Staining	GS: 4 or better
3.	Color Fastness to Rubbing (Wet) Staining	GS: 3 or better
4.	Color Fastness to light Change in Shade	GS: 4 or better
5.	Color Fastness to perspiration a. Change in Shade b. Staining	GS: 4 or better GS: 4 or better

6.	Color Fastness to Sea Water a. Change in Shade b. Staining	GS: 4 or better GS: 4 or better
7.	Tensile strength (N)      Warp Weft	1000 $\pm$ 5% 800 $\pm$ 5%
8.	Tear Strength(N)      Warp Weft	44 $\pm$ 5% 48 $\pm$ 5%
9.	Flammability	Class1 Flame spread time $\geq$ 3.5 sec
10.	Dimensional Stability test after 3 HL 40°C Warp Weft	$\pm$ 2% $\pm$ 2%
11.	Wrinkle recovery	Minimum 2
12.	Crease recovery	150° $\pm$ 3%
13.	Appearance after 5-10 washes (3A) with tumble dry	Satisfactory
14.	Pilling resistance after 5,000 cycles	Grade 4
15.	Abrasion resistance after 6,000 cycles	No thread break
16.	Air permeability(mm/sec at 100 Pa)	Minimum 45
17.	Moisture Management	0.65 Min
18.	Water absorbency (drop test)	Front side 7 sec(max) Back side 6 sec (max)
19.	pH level	6-8
<b>STITCHING THREAD SPECIFICATION</b>		
1.	Material	Polyester
2.	Construction	2 cord each single
3.	Count of yarn	2/31.5 Tex $\pm$ 3%
4.	Breaking Strength (24")	2.23 Kg $\pm$ 250 gms
5.	Shade	Light grey or Pantone 15-4003 TCX
6.	Color fastness to washing (Test No. 3) a. Change in Shade b. Staining	GS: 4 GS: 4

#### **VELCRO TAPE MATERIAL SPECIFICATION**

1.	Material Male Female	Nylon Nylon
2.	Colour	Light grey or Pantone 15-4003 TCX

#### **VELCRO TAPE PERFORMANCE TESTING**

1.	1. Before sticking / unsticking 300 times at 300 g. 2. After sticking / unsticking 300 times at 300g.	Satisfactory Satisfactory
2.	Peel Strength (lbs per in width)	1.5
3.	Shear strength(PSI)	10

#### **WAIST ADJUSTMENT TAPE**

1	Material	100% Cotton
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2.	Color	Light grey or Pantone 15-4003 TCX
<b><u>BUTTONS</u></b>		
1	Material	Plastic
2.	Color	Black Pantone # 19-4006 TCX
<b><u>BUTTON PREFORMANCE TESTING</u></b>		
1.	Color fastness to water	GS 4 or better
2.	Pull test at 90 N	No crack, chips or breakage No structural failure No center break out
3.	Impact resistance	No crack, chips or breakage
4.	Color fastness to heat (hot pressing)	GS 4
5.	Appearance after washing	No color transfer on fabric

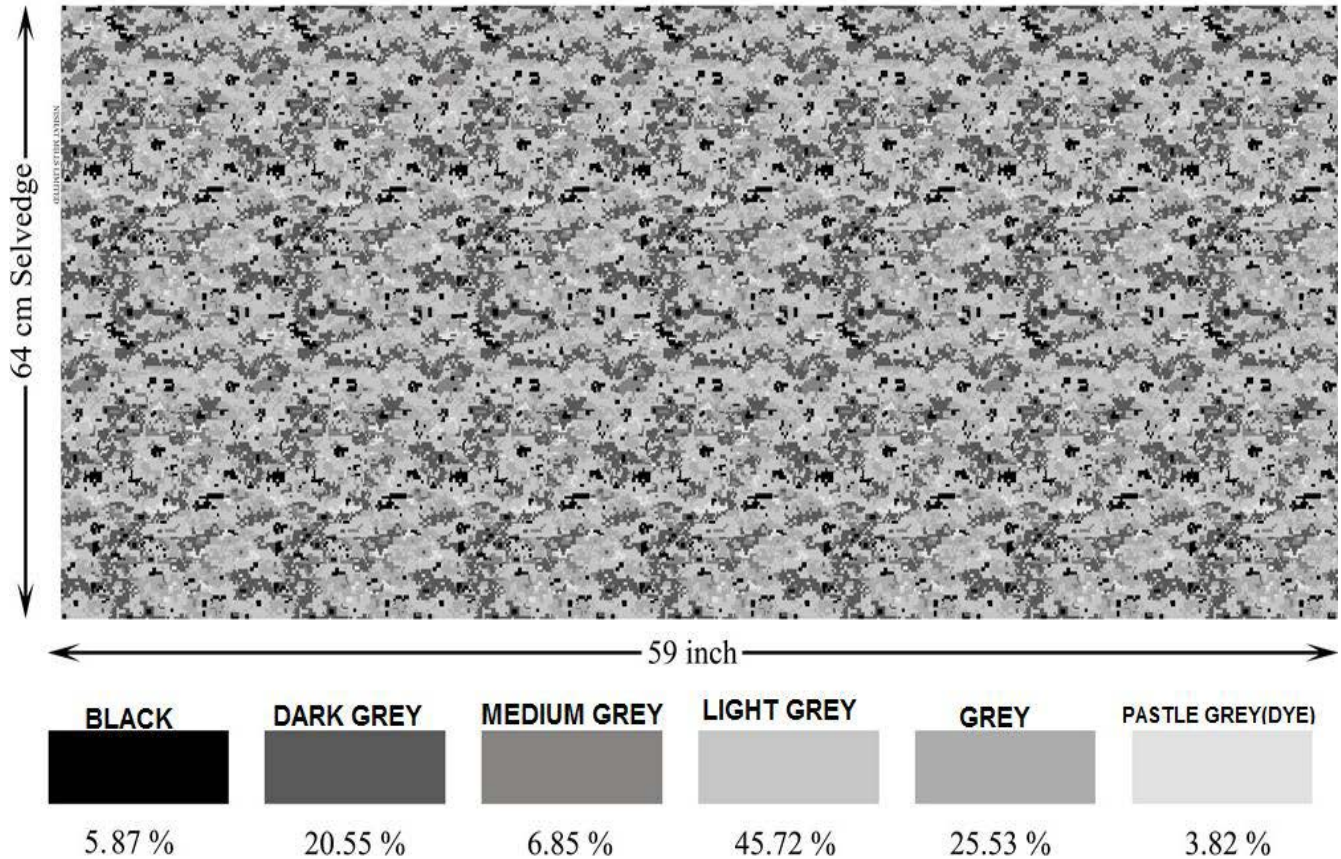
Appendix:

I. DIGITAL CAMOUFLAGE DESIGN/ PATTERN OF DRESS NO. 4B

APPENDIX I TO ANNEX A TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018

**DIGITAL CAMOUFLAGE DESIGN/ PATTERN OF DRESS NO. 4B**

4B Pixilated Camo



ANNEX B TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018

**MANUFACTURING DETAILS OF GENERAL SERVICE DIGITAL CAMOUFLAGE (GSDC)**  
**DRESS NO. 4B (AFLOAT) 100% COTTON**

1. GSDC Dress No. 4 B (Afloat) 100 % cotton is to be manufactured as per measurement schedule and drawing at Appendix I and Appendix II respectively.
2. 'PAK NAVY' soft tally as per Annex C and D of this specification shall be attached above left chest pocket of Dress No. 4 B. Jockey /Sea Cap shall be supplied as per Annex E and F.
3. The sewing/stitching thread should match with the base fabric colour i.e light grey or Pantone 15-4003 TCX and spun polyester.
4. In Bush jacket metallic air vents are placed at arm pits both side front and back and two in upper and lower side of each back pleat. Outer dia is 11mm and inner dia is 4.5 mm. Shade of metallic brass air vent should match with the base fabric color i.e. light grey or Pantone 15-4003 TCX.
5. Polyester Buttons used should be Mat finished, 4 holes with 19 mm dia (30) ligne with 4 mm thickness and black in colour. Buttons of 16 mm dia with 4 mm thickness shall be used on shoulders only. The button is to be fastened with same matching black colour thread with cross sewing neatly.
6. On bush jacket collar ends, pockets and flaps, front placket, sleeves loops and back pleats are to be reinforced with bartack.
7. In Bush jacket on back pleats, joint of front and back panels, sleeves, arm joint, shoulder, cuffs and elbow patch double needle stitching is required.
8. Bush jacket shall be 1" bottom hemmed.
9. Soft paper fusing shall be used in collar, front pocket flaps and shoulder flaps.
10. Buttonholes are to have at least 22 stitches per 2 cm and to be bar-tacked or taper barred.
11. In trouser fly, cross pockets, knee and seat patches, thigh pockets, and side and seat seam are to be double needle stitched.
12. On trouser on front cross pockets end, thigh pockets, pockets bag and its flaps and back pockets and its flap, waist loops inner side bartack shall be done.
13. Two spare buttons each for bush jacket and trouser be provided/ stitched on the garment.
14. Pocket lining of same camouflage fabric shall be used.
15. Bottom adjustment dori/ rope of same camouflage fabric shall be attached at bottom of trouser. One end of the rope shall be stitched with the trouser to avoid slippage of dori/ rope during washing.

Appendices:

- I. MEASUREMENT SCHEDULE OF DRESS NO. 4B BUSH JACKET AND TROUSER
- II. DRAWING OF DRESS NO. 4B BUSH JACKET AND TROUSER

# PN SPECIFICATION NO 01/2018

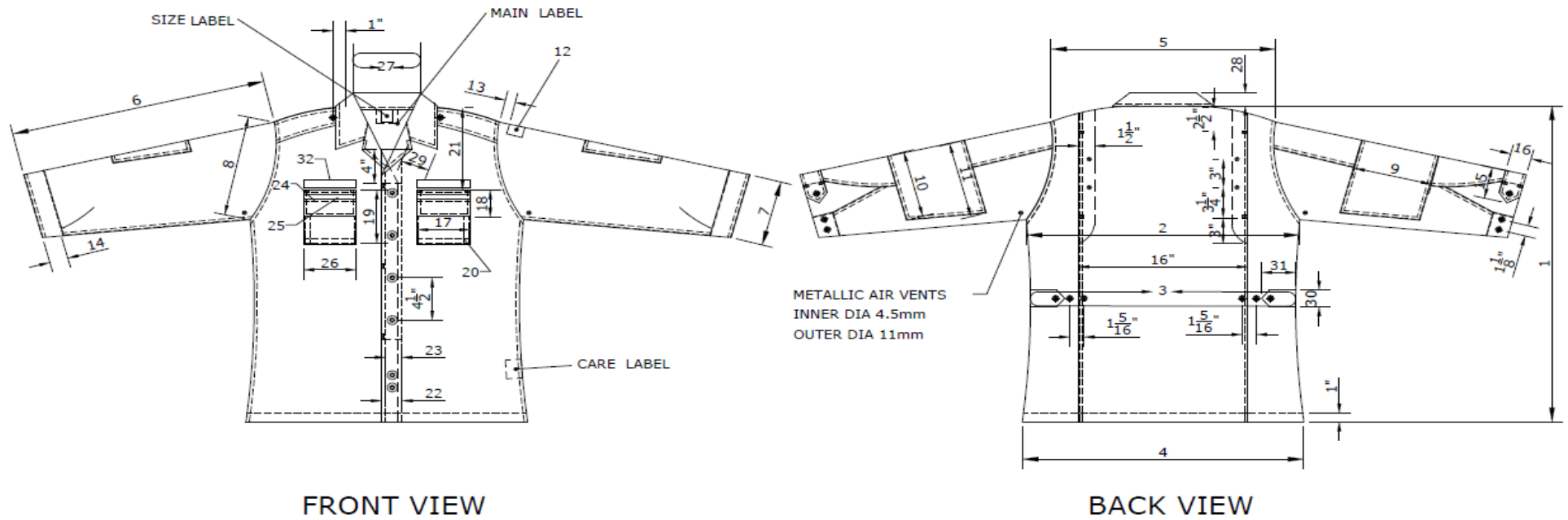
APPENDIX I TO ANNEX B TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018

MEASUREMENT SCHEDULE OF DRESS NO. 4B CAMOUFLAGE BUSHJACKET (INCHES)																		
SR	Description	XXS 34	XSF 36	XSL 36	SF 38	SL 38	MF 40	ML 40	LF 42	LL 42	XLF 44	XLL 46	XXL 48	XXL1 48	XXL2 50	XXL3 52	XXL4 54	TOL
1	Length from center back.	29.5	29.5	31	29.5	31	29.5	31	29.5	31	31	31	31	31	31	32	32	0.75
2	Chest.	20	21	21	22	22	23	23	24	24	25	26	27	27	28	29	30	0.5
3	Waist.	19	20	20	21	21	22	22	23	23	24	25	26	26	27	28	29	0.5
4	Bottom.	20	21	21	22	22	23	23	24	24	25	26	27	27	28	29	30	0.5
5	Shoulder.	16.75	17.25	17.25	18	18	18.75	18.75	19.5	19.5	20.25	20.25	21	21	21	21	21.5	0.25
6	Sleeve Length.	23.5	24	24.75	24	24.75	24.5	25.25	24.5	25.25	25	25.5	25.5	25.5	26	27	27	0.5
7	Sleeve opening.	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	0.375
8	Arm hole.	10	10.5	10.5	10.5	10.5	11	11	11	11	11.5	11.5	11.5	11.5	11.5	12	12	0.5
9	Sleeves patch length.	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	0.25
10	Sleeves patch width top.	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	0.25
11	Sleeve patch width bottom.	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	0.25
12	Flag Velcro size.	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	
13	Flag Velcro placement from shoulder seam.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
14	Cuff height.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.125
15	Sleeve loop height.	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.25
16	Sleeve loop Width.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.125
17	Front flap width.	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	0.25
18	Front flap height.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.125
19	Front pocket length including flap.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0.25
20	Front pocket width	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	
21	Front pocket side box.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.125
22	Front pocket placement.	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0.25
23	Front placket width right side.	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	0.125
24	Front placket width left side.	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.125
25	Front pocket hem.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.125
26	Front pocket Velcro height.	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
27	Front pocket Velcro width.	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
28	Front pocket tally Velcro (width & Length).	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	
29	Collar.	15	15.5	15.5	16	16.5	16.5	16.5	17	17	17.5	18	18	18	18.5	19	19	0.375
30	Collar height from center back.	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	3.125	0.125
31	Collar corner.	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	0.125
32	Side loop width	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.125
33	Side loop length	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	0.125

MEASUREMENT SCHEDULE OF DRESS NO. 4 B CAMOUFLAGE TROUSER (INCHES)																		
SR	DESCRIPTION	XXS 28	XSF 30	XSL 30	SF 32	SL 32	MF 34	ML 34	LF 36	LL 36	XLF 38	XLL 40	XXL 42	XXL1 44	XXL2 46	XXL3 48	XXL4 50	TOL
1	Waist.	28	30	30	32	32	34	34	36	36	38	40	42	44	46	48	50	0.5
2	Hip (8in from belt)	37	39	39	41	41	43	43	45	45	47	49	51	54	56	58	60	0.5
3	Thigh	25	26	26	27	27	28	28	29	29	30	31	32	34	35	36	37	0.5
4	Bottom Knee on 13" from crouch.	21	21.5	21.5	22	22	22.5	22.5	23	23	23.5	24	24	24	25	25	26	0.25
5	Bottom	17.75	17.75	17.75	18	18	18.25	18.25	18.5	18.5	18.75	19	19	19	19	19	19	0.25
6	Inseam	33	31	33	31	33	31	33	31	33	33	33	33	33	33	33	33	1
7	Front rise include	11.25	11.5	11.75	11.75	12	12	12.25	12.25	12.5	12.75	13	13.25	13.25	13.5	13.75	14	0.25
8	Back rise	16.25	16.5	16.75	16.75	17	17	17.25	17.25	17.5	17.75	18	18.25	18.25	18.5	18.75	19	0.25
9	Front patch length	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	0.25
10	Front pocket opening waist	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	0.25
11	Front pocket side seam	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0.25
12	Thigh pocket length	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	9	9	9	9	9	9	9	0.25
13	Thigh pocket width	8	8	8	8	8	8	8	8	8	8.5	8.5	8.5	8.5	8.5	8.5	8.5	0.25
14	Thigh pocket flap height	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	0.125
15	Back pocket flap width	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0.25
16	Back pocket flap height	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.125
17	Back patch inside length	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	0.25
18	Waist belt	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.125
19	Thigh pocket placement	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	0.25
20	Belt loop length	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75	0.25
21	Belt loop width bottom	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.125
22	Belt loop width top	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.125
23	Fly width	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.125
24	Fly length full	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.75	7.75	7.75	7.75	7.75	7.75	7.75	0.25

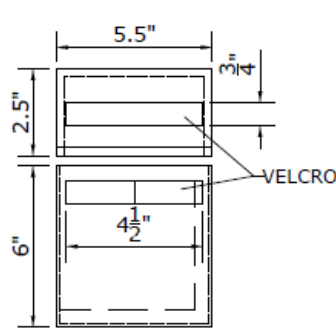


APPENDIX II TO ANNEX B TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018

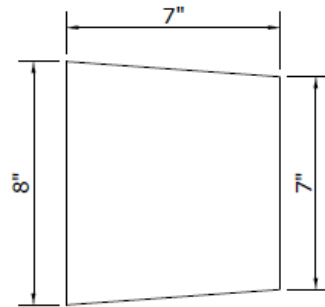


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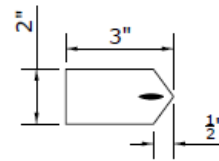
NOTE: FOR FURTHER DETAILS SEE SEALED STOCK SAMPLE.									
DITD KARACHI									
TITLE: SHIRT CAMOUFLAGE (MAIN BODY) SIZE- MF-40									
DWG.NO. TD-2412/2017					DIMENSIONS: INCHES				
DATE: 19-12-2017					SCALE: N.T.S				
DRAWN BY			CHECKED BY			APPROVED BY			
--SD--			--SD--			--SD--			
H.D/M			LT.CDR			CDR			
M.ASGHAR			ASMA SOHAIL			AZHAR MIR			
I/c DWG.			SO.R&D			DITD			
S.NO	ITEM	INC	S.NO	ITEM	INC	S.NO	ITEM	INC	
24	FRONT POCKET HEM	1	12	FLAG VELCRO SIZE	4/6 CM				
23	FRONT PLACKET WIDTH LEFT SIDE	1.75	11	SLEEVE PATCH WIDTH BOTTOM	7.25				
22	FRONT PLACKET WIDTH RIGHT SIDE	1.25	10	SLEEVE PATCH WIDTH TOP	8.5				
21	FRONT POCKET PLACEMENT	7.5	09	SLEEVE PATCH LENGTH	7.75				
20	FRONT POCKET SIDE BOX	1	08	ARM HOLE	11				
19	FRONT POCKET LENGTH INCLUDING FLAP	7	07	SLEEVE OPENING	6.5				
18	FRONT FLAP HEIGHT	2.5	06	SLEEVE LENGTH	24.5				
17	FRONT FLAP WIDTH	5.5	05	SHOULDER	18.75				
16	SLEEVE LOOP WIDTH	2	04	BOTTOM	23				
15	SLEEVE LOOP LENGTH	2.75	03	WAIST	22				
14	CUFF HEIGHT	2	02	CHEST	23				
13	FLAG VELCRO PLACEMENT FROM SHOULDER SEAM	1	01	LENGTH FROM CENTER BACK	29.5				
DESCRIPTION									



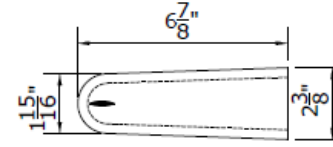
POCKET



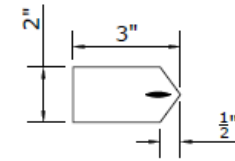
ELBOW PATCH



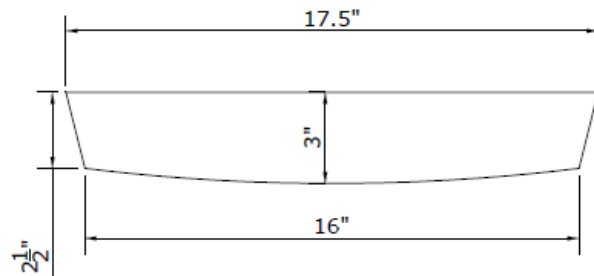
SIDE LOOP



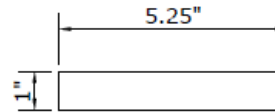
SHOULDER FLAP



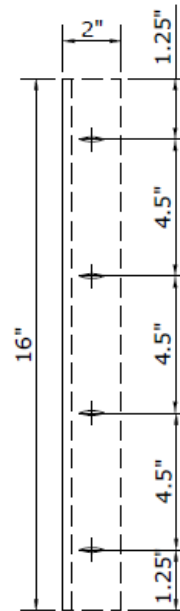
CUFF LOOP



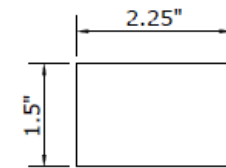
COLLAR



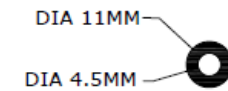
NAME TALLY



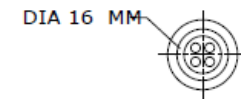
BUTTON HOLE TAG



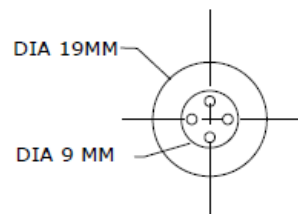
FLAG PATCH



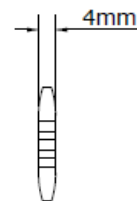
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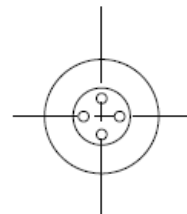
SMALL BUTTON



FRONT



SIDE



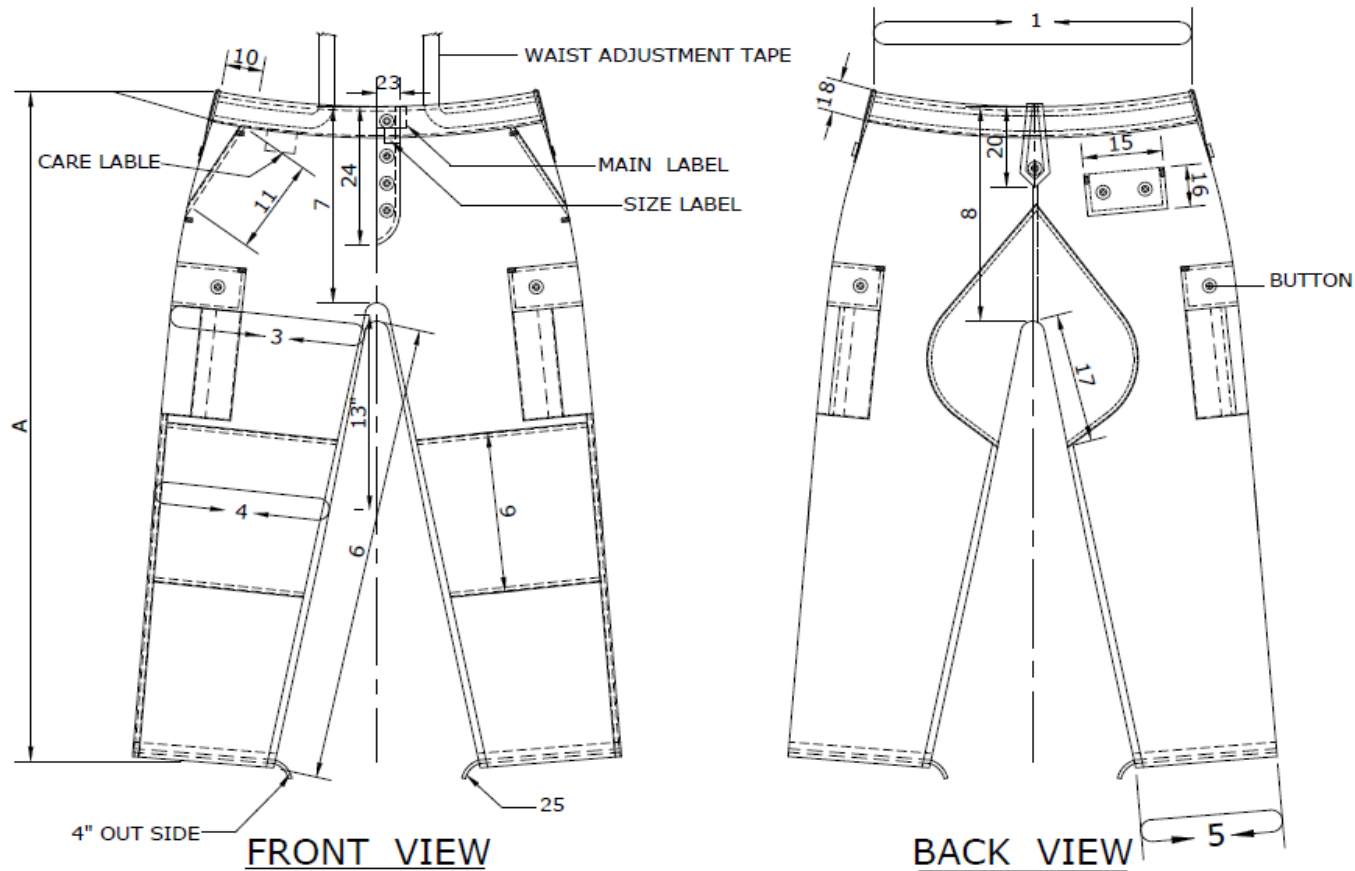
BACK

BUTTON SCALE:1:2

NOTE:  
FOR FURTHER DETAILS SEE SEALED SAMPLE.

1221

DITD KARACHI		
TITLE: <b>SHIRT CAMOUFLAGE</b>		
(SMALL PARTS) SIZE:MF-40		
DWG.NO. TD-2413/2017	DIMENSIONS: INCHES	
DATE: 19-12-2017	SCALE: N.T.S	
DRAWN BY --SD-- H.D/M M.ASGHAR I/c DWG.	CHECKED BY --SD-- LT.CDR ASMA SOHAIL SO, R&D	APPROVED BY --SD-- CDR AZHAR MIR DITD



1222

NOTE:

FOR FURTHER DETAILS SEE SEALED SAMPLE.

			14	THIGH POCKET FLAP HEIGHT	2.75
			13	THIGH POCKET WIDTH	8
			12	THIGH POCKET LENGTH	8.5
25	BOTTOM ADJUSTMENT ROPE	2/8	11	FRONT POCKET SIDE SEAM	7
24	FLY LENGTH FULL	7.25	10	FRONT POCKET OPENING WAIST	2.25
23	FLY WIDTH	1.75	9	FRONT PATCH LENGTH	11
22	BELT LOOP WIDTH TOP	2	8	BACK RISE	17
21	BELT LOOP WIDTH BOTTOM	2	7	FRONT RISE INCLUDE	12
20	BELT LOOP LENGTH	4.75	6	INSEAM	31
19	THIGH POCKET PLACEMENT	10.5	5	BOTTOM	18.25
18	WAIST BELT	1.75	4	KNEE ON 13 FROM CROUCH	22.5
17	BACK PATCH INSIDE LENGTH	6.25	3	THIGH	28
16	BACK POCKET FLAP HEIGHT	2.5	2	HIP(8 FROM BELT)	43
15	BACK POCKET FLAP WIDTH	6	1	WAIST	34
S.NO	ITEM	INC	S.NO	ITEM	INC
DESCRIPTION					

DITD KARACHI

TITLE:

TROUSER CAMOUFLAGE  
SIZE:MF-34

DWG.NO. TD-2414/2017

DIMENSIONS: INCHES

DATE: 19-12-2017

SCALE: N.T.S

DRAWN BY

CHECKED BY

APPROVED BY

--SD--

--SD--

--SD--

H.D/M

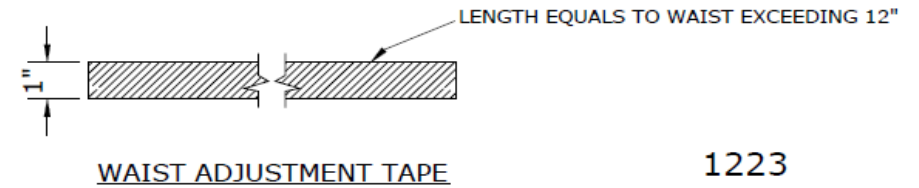
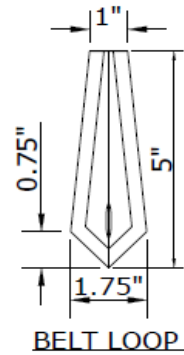
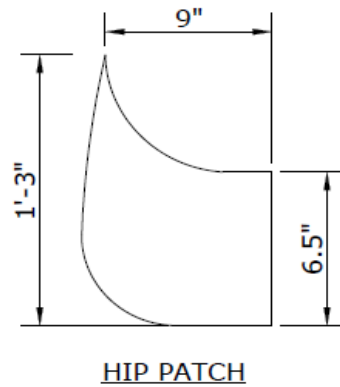
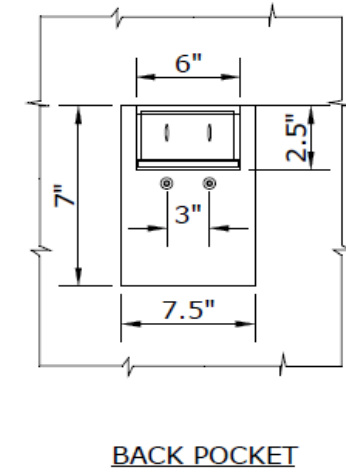
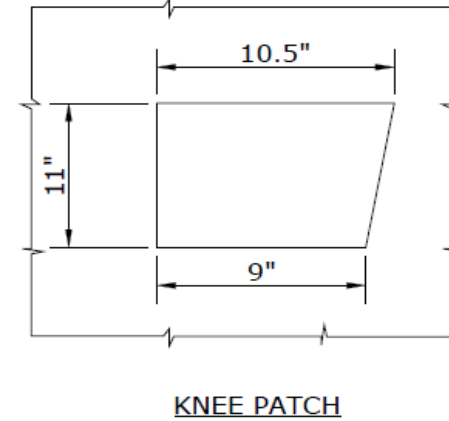
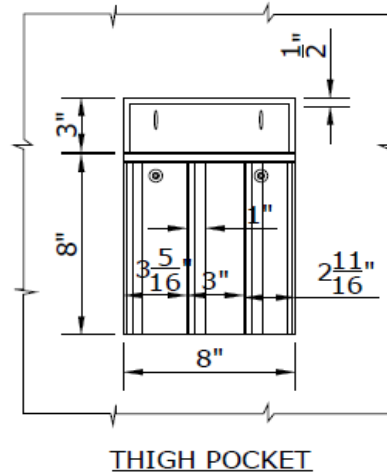
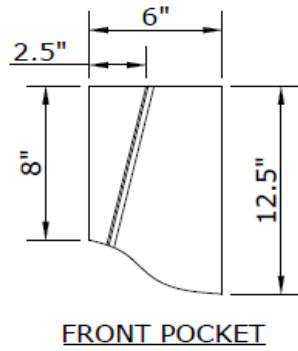
M.ASGHAR  
I/c DWG.

LT.CDR

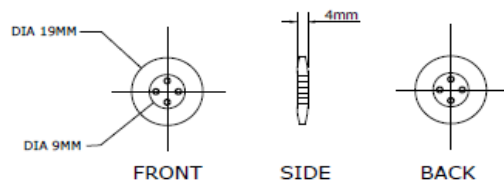
ASMA SOHAIL  
SO.R&D

CDR

AZHAR MIR  
DITD

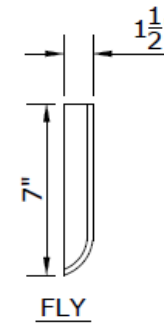


1223



BUTTON  
SCALE: 1:2

NOTE:  
FOR FURTHER DETAILS SEE SEALED SAMPLE.



DITD KARACHI		
TITLE: TROUSER CAMOUFLAGE ( SMALL PARTS ) SIZE:MF-34		
DWG.NO. TD-2415/2017	DIMENSIONS: INCHES	
DATE: 19-12-2017	SCALE:	N.T.S
DRAWN BY --SD-- H.D/M M.ASGHAR I/c DWG.	CHECKED BY --SD-- LT,CDR ASMA SOHAIL SO.R&D	APPROVED BY --SD-- CDR AZHAR MIR DITD

**TECH. DETAILS OF 'PAK NAVY' SOFT TALLY FOR CAMOUFLAGE DRESS NO 4B**

S NO	MAIN FABRIC	REQUIREMENT
<b>BASE FABRIC MATERIAL SPECIFICATION</b>		
1.	Material	As per Annex A of this specification
2.	Colour	Light grey or Pantone 15-4003 TCX
<b>EMBROIDERY THREAD MATERIAL SPECIFICATION</b>		
1.	Material	100% Viscose
2.	Color	Black Pantone # 19-4006 TCX
3.	Count of yarn	2/36
<b>EMBROIDERY THREAD PERFORMANCE TESTING</b>		
1.	Color fastness to washing (Test No. 3) a. Change in Shade b. Staining	GS: 4 GS: 4
<b>VELCRO TAPE MATERIAL SPECIFICATION</b>		
1.	Material Male Female	Nylon Nylon
2.	Colour	Light grey or Pantone 15-4003 TCX
<b>VELCRO TAPE PERFORMANCE TESTING</b>		
1.	Manual Sticking/ Unsticking	a. Satisfactory after sticking and un-sticking 300 times. b. Satisfactory after sticking ad un-sticking 300 times on applying weight of 300g.
2.	Peel Strength (lbs per in width)	1.5
3.	Shear strength(PSI)	10

ANNEX D TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018

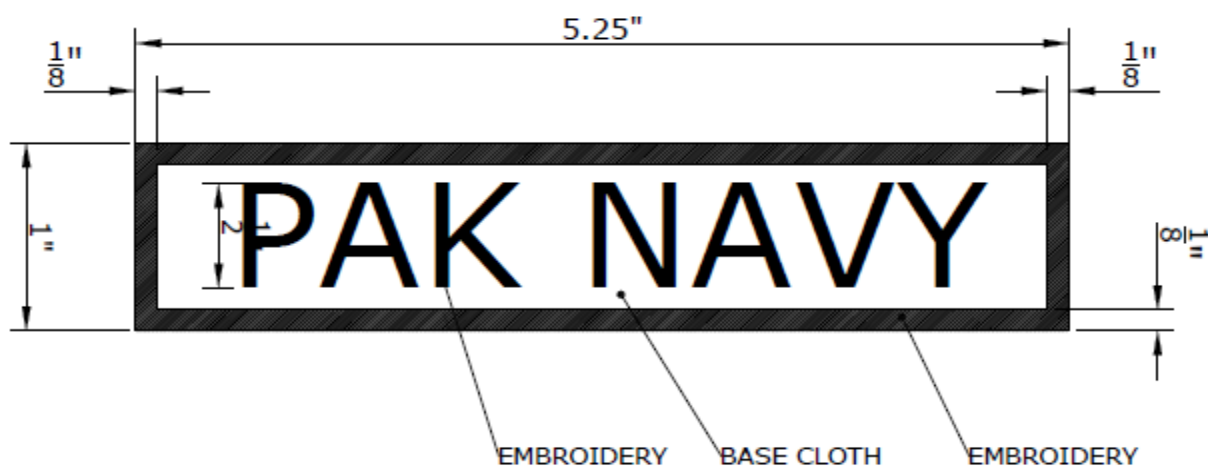
**MANUFACTURING DETAILS OF 'PAK NAVY' SOFT TALLY**

1. PAK NAVY Soft Tally shall be fabricated in accordance with the shape and design as illustrated in the drawing at Appendix I of this Annex.
2. The thickness of embroidery shall be 3mm.
3. The embroidery shall be neat and clean and all loose ends shall be trimmed off. The embroidery shall be parallel to the centre line of the tally.

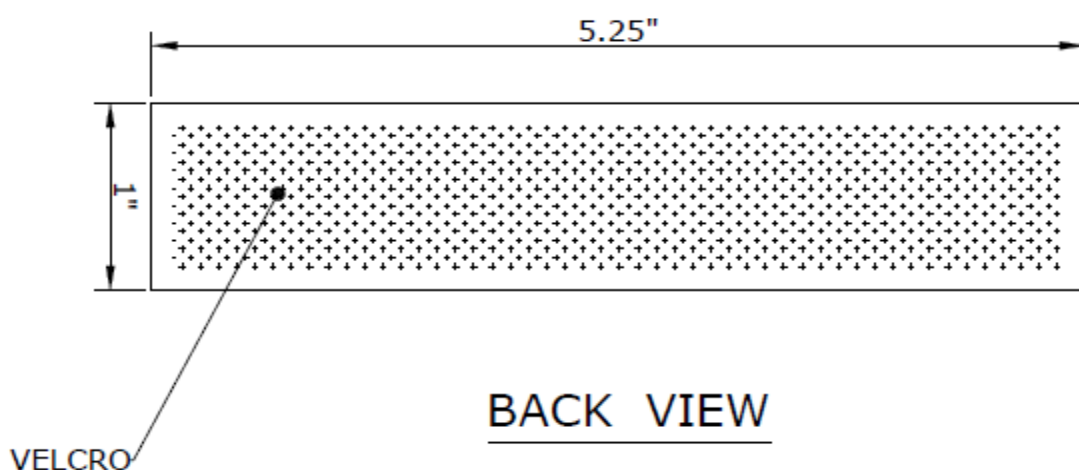
Appendix:

- I DRAWING OF 'PAK NAVY' SOFT TALLY.

APPENDIX I TO ANNEX D TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018



FRONT VIEW



BACK VIEW

1235

DITD KARACHI

TITLE: SOFT PAK NAVY TALLY  
FOR CAMOUFLAGE DRESSES

DWG.NO. TD-2428/2018

DIMENSIONS: INCHES

DATE: 21-03-2018

SCALE: N.T.S

DRAWN BY

CHECKED BY

APPROVED BY

--SD--

--SD--

--SD--

H.D/M

M.ASGHAR

I/c DWG

LT,CDR

ASMA SOHAIL

SO, R&D

CDR

AZHAR MIR

DITD

NOTE:

FOR FURTHER DETAILS SEE STOCK SAMPLE

**ANNEX E TO**  
**PN SPECIFICATION NO 01/2018**  
**PROMULGATION DATE 26 Mar 2018**

**TECHNICAL DETAILS FOR CAMOUFLAGE JOCKEY / SEA CAP**

S NO	ITEM	REQUIREMENT
<b>BASE FABRIC MATERIAL SPECIFICATION</b>		
1.	Material specification	As per Annex A of this specification
<b>STITCHING THREAD MATERIAL SPECIFICATION</b>		
1.	Material	Polyester
2.	Color	Light grey or Pantone # 15-4003 TCX
3.	Count of yarn	26/3 3/22.7 Tex $\pm$ 3%
4.	Construction	3 cord each single
<b>STITCHING THREAD PERFORMANCE TESTING</b>		
1.	Color fastness to washing (Test No. 3) a. Change in Shade b. Staining	GS: 4 GS: 4
2.	Strength, cN	2680
3.	Tenacity, cN/Tex	39.24
4.	Elongation %	18.53
<b>PLASTIC PEAK MATERIAL SPECIFICATION</b>		
1.	Material	Plastic (virgin)
2.	Thickness	1.5 -1.7 mm
3.	Hardness	97 $\pm$ 1 IRHD
4.	Density	0.92 g/cc $\pm$ 0.01
<b>CARE LABEL MATERIAL SPECIFICATION</b>		
1.	Material	Polyester with visible printing which remain satisfactory after washing test.
2.	Shade	Nearest to ground fabric color i.e. light grey
<b>EMBROIDERY THREAD MATERIAL SPECIFICATION</b>		
1.	Colour	Black Pantone# 19-4006 TCX
2.	Material	Viscose
3.	Count of yarn	2/44 $\pm$ 2
<b><u>EMBROIDERY THREAD PERFORMANCE TESTING</u></b>		
1.	Colour fastness to washing Test No. 3 1. Change in Shade 2. Staining Cotton Wool	GS: 4 GS: 4 GS: 4



**VELCRO TAPE MATERIAL SPECIFICATION**

1.	Material Male Female	Nylon Nylon
2.	Colour	Light Grey or Pantone # 15-4003 TCX

**VELCRO TAPE PERFORMANCE TESTING**

1.	<b><u>Performance Test</u></b> 1. Before sticking / unsticking 300 times at 300 g. 2. After sticking / unsticking 300 times at 300g.	Satisfactory Satisfactory
2.	Peel Strength (lbs per in width)	1.5
3.	Shear strength(PSI)	10

**MANUFACTURING DETAILS OF CAMOUFLAGE JOCKEY / SEA CAP**

- 1 Camouflage Jockey / Sea Cap shall be fabricated in accordance with the shape and design as illustrated in the drawing at Annex C.
- 2 It is a 6 panel style Jockey Cap. The panels are stitched with each other using double needle stitch neatly using 10-12 SPI.
- 3 Pipen used on inner side of Cap is 10mm wide of same fabric used in upper of cap.
- 4 Velcro tape used for adjustment of cap shall be 2.5 cm of best trade quality. The color of Velcro and embroidery on eyelets shall be light grey and matches with the base color of fabric.
- 5 The dia of top Button is 16mm and it is covered with same fabric used in upper of cap.
- 6 Sweat absorbing band and inner side of peak shall be of same upper fabric.
- 7 Care label and identification label may be attached with the sweat absorbing band.

Appendices:

- I MEASUREMENT SCHEDULE OF CAMOUFLAGE JOCKEY / SEA CAP.
- II DRAWING OF CAMOUFLAGE JOCKEY / SEA CAP.

APPENDIX I TO ANNEX F TO  
PN SPECIFICATION NO 01 2018  
PROMULGATION DATE 26 Mar 2018

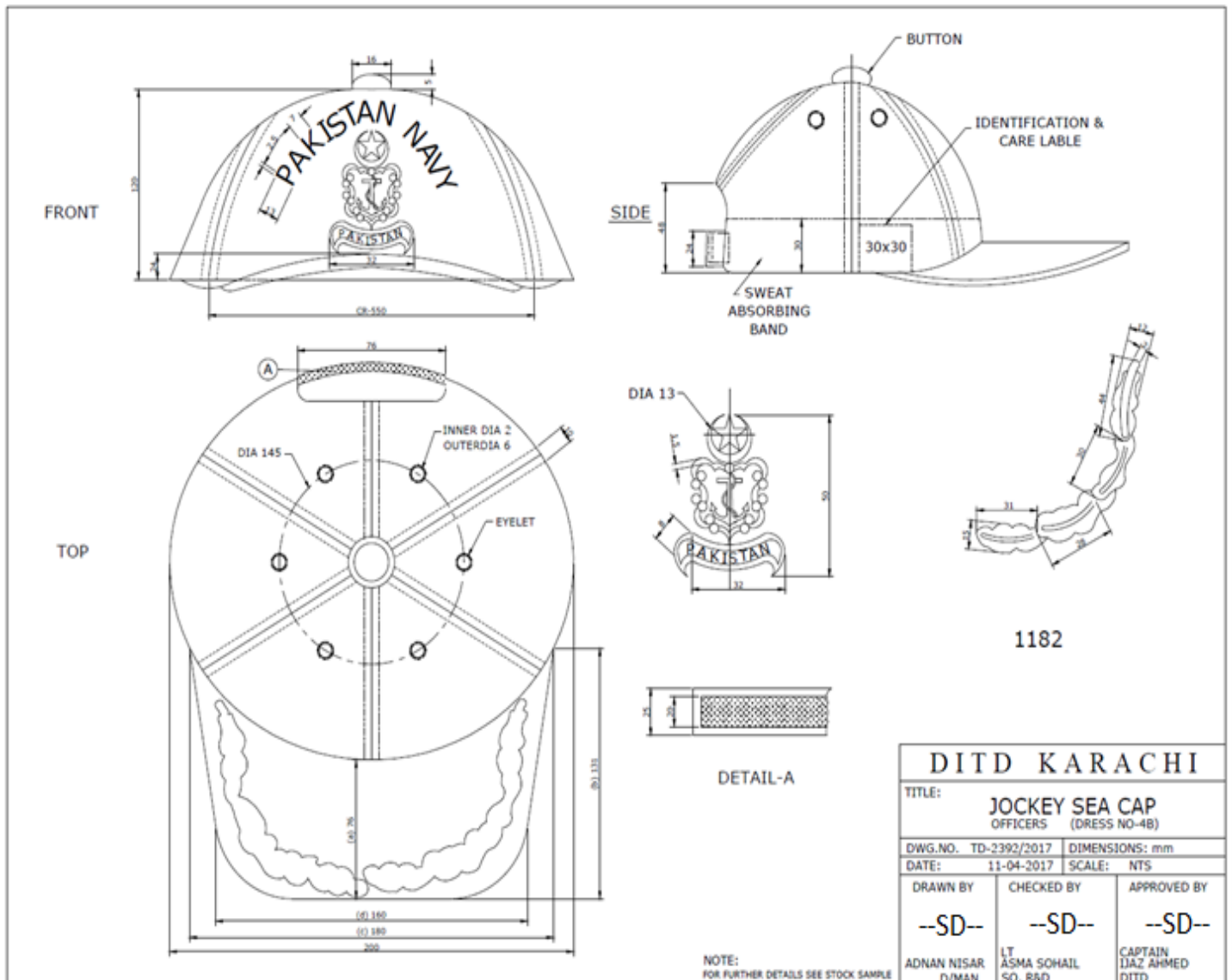
### MEASUREMENTS AND DIMENSIONS

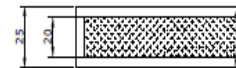
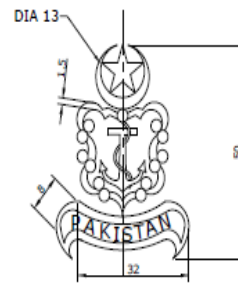
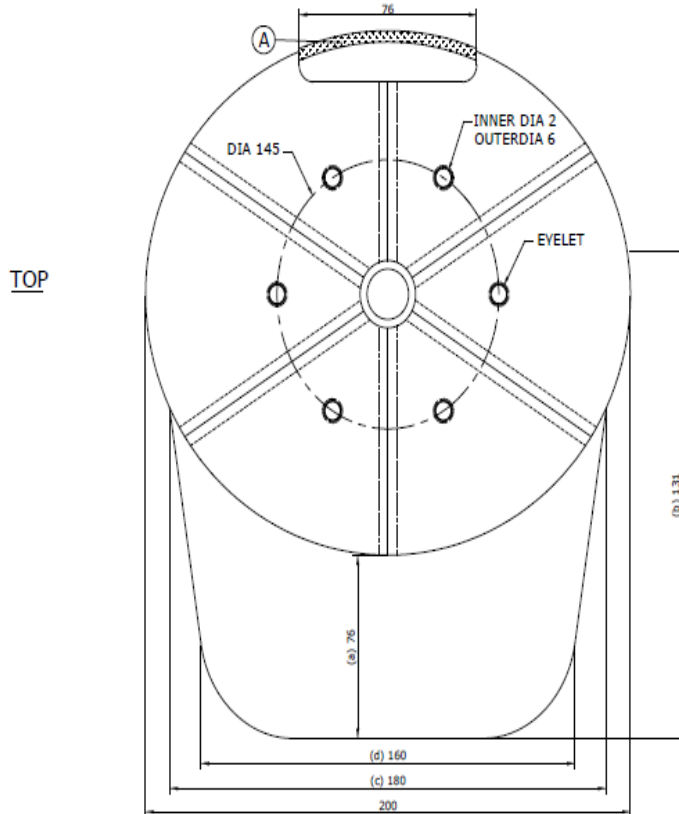
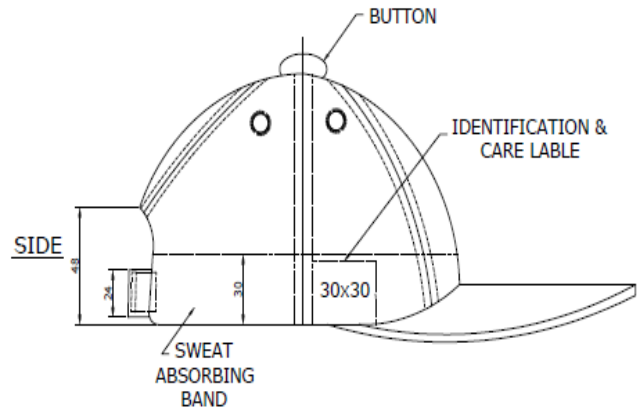
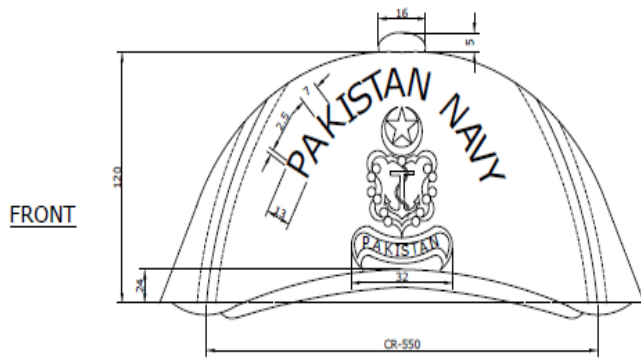
S.No.	DESCRIPTIONS	SIZE CM				TOLERANCE
	<b>Internal circumference</b>	55	57	59	61	$\pm 0.5$
a.	Peak width from center	7.5	7.5	7.5	7.5	$\pm 0.2$
b.	Peak width from edges	13	13	13	13	$\pm 0.2$
c.	Peak Length from bottom edges	16	16	16	16	$\pm 0.2$
d.	Peak Length from top edges	18	18	18	18	$\pm 0.2$
e.	Height of Cap	12	12	12	12	$\pm 0.5$

**Note:**

The tolerances are given only for made up caps to cover the stitching allowance. Manufacturer will ensure exact size.

PN SPECIFICATION NO 01/2018  
APPENDIX II TO ANNEX F TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018





**DETAIL-A**

1181

**DITD KARACHI**

TITLE:		
JOCKEY SEA CAP		
CPO's & SAILORS (DRESS NO-4B)		
DWG.NO.	TD-2392/2017	DIMENSIONS: mm
DATE:	11-04-2017	SCALE: NTS
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
ADNAN NISAR D/MAN	LT ASMA SOHAIL SO, R&D	CAPTAIN IJAZ AHMED DITD

NOTE:  
FOR FURTHER DETAILS SEE STOCK SAMPLE

ANNEX G TO  
PN SPECIFICATION NO 01/2018  
PROMULGATION DATE 26 Mar 2018

**TERMS & DEFINITIONS**

1. **Inspection Authority**. Chief Inspector of Naval Stores (CINS). His verdict in respect of inspection matters is to be taken as final.
2. **Inspecting Officer**. An officer nominated by the Chief Inspector of Naval Stores (CINS) for carrying out inspection of stores supplied by the supplier, against a specified contract or order, in accordance with the particulars stipulated therein.
3. **Inspector**. The term inspector shall include the “Inspection Authority”, inspecting officer and their representatives, duly authorized for the purpose of discharging inspection duties involved.
4. **Sealed Pattern**. It denotes a pattern, sealed and signed by the Inspection Authority & held in his custody, and represents the standard of store in respect of materials, dimensions, design, workmanship and finish, etc. There is only one sealed pattern for each store, which cannot be removed from custody of the inspection authority.

**GUIDELINES FOR INSPECTION – GENERAL DEFECTS**

Defect
<p>1.    <b><u>Material Defect and Workmanship Damages</u></b></p> <p>        a.     Any hole, scissor or knife tear, mend, burn or weakening defect, such as smash, multiple float, loose slub, or needle chews, that might develop in to hole.</p> <p>        b.     Cloth stiffened, hardened, or seared by heat, where thermo activated shade.</p> <p>        c.     Any garment portion puckered, twisted, or pleated at joining seam.</p> <p>2.    <b><u>Shaded Parts</u></b></p> <p>        a.     Any part shaded or any shade bar.</p> <p>3.    <b><u>Colour</u></b></p> <p>        a.     Any component of not specified colour.</p> <p>4.    <b><u>Cleanliness</u></b></p> <p>        a.     Any slub, spot, or stain on outer side.</p> <p>        b.     Threads ends not trimmed or loose threads ends not removed (to be scored only when condition exists on major portion of garment).</p> <p>        c.     Any shade identification stamping visible on outer side.</p> <p>5.    <b><u>Component and Assembly</u></b></p> <p>        a.     Any component not as specified or any defect of component or defect of assembly not herein classified.</p> <p>        b.     Any component, component part, or required operation omitted or any other operation improperly performed not herein specified/ classified.</p> <p>6.    <b><u>Seams and Stitching</u></b></p> <p>        a.     Any seam twisted, puckered, or pleated (unless otherwise classified herein)</p> <p>        b.     Any part of Jacket and Trouser caught in unrelated operation or stitching.</p>

- c. Any edge not properly forced out, i.e, having fold more than specified.
- d. Ends of stitching that are not caught in other seam or stitching not securely tacked.
- e. Ends of seams or stitches that are not caught in other seams or stitching secured but backstitched for distance less than specified.
- f. Thread breaks not securely overstitched
- g. Stitching tension tight resulting in breakage of stitches when normal pull is applied.
- h. Stitching per 20 mm on major portion of seam one or two stitches more or less than specified, except on labels.
- j. Stitches per 20 mm on major portion of seam more than three stitches more or less than specified, except on labels.
- k. Any bar tacks omitted, loose, misplaced or not serving intended purpose.
- l. Three or more bar tacks missing, loose, misplaced, or not serving intended purpose on multiple pencil compartment pockets.
- m. Skipped or broken stitches in two or more sewn eyelets
- n. Stitch tension loose resulting in loose seam.
- p. Stitches in sewn eyelet one or two stitches less than specified.



**FEED BACK FORM**

Item Designation: \_\_\_\_\_

Pattern #: \_\_\_\_\_

Parent Equipment: \_\_\_\_\_

PN SPEC #: \_\_\_\_\_

Problem Faced: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Technical Solution: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Financial Effect (if any): \_\_\_\_\_

\_\_\_\_\_

Name Stamp

**COUNTERSIGNED**

Name Stamp

## **AMENDMENTS IN PN SPECIFICATION 01/2018**

<b>S. NO</b>	<b>PN Specification 01/2018. along with Page No/ clause No</b>	<b>Description</b>
1.	Page 1	General Service Digital Camouflage <b>Dress No 4B</b> (Afloat) 100% Cotton
2.	Page 3	Technical Details of GSDC <b>Dress No 4B</b> (Afloat) 100% Cotton
	Details & Annexes	Manufacturing Details of GSDC <b>Dress No. 4B</b> (Afloat) 100% Cotton
3.	Page 4 clause 1.1	General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100 % Cotton (Bush Jacket, Trouser, PAK NAVY soft tally and Camouflage Jockey Cap)
4.	Page 4 Clause 4.1	This specification covers the manufacturing / inspection requirements of cloth made from cotton to be used in the manufacturing of uniform, namely General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100 % Cotton (Bush Jacket & Trouser) to be used by personnel of Pakistan Navy. This specification lays down the standard to which the stores shown under designation above should conform. It defines and lays down the quality, standard and details of materials, workmanship and finish. It also lays down the details of sampling, testing, inspection rejection, marking, preservation, packing and delivery etc.
5.	Page 5 Clause 7	Technical details for General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100 % cotton
6.	Page 5 Clause 7.1	The technical details of General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100 % Cotton is given at Annex A of this specification.
7.	Page 5 Clause 8.	Manufacturing details for General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100 % cotton
8.	Page 5 Clause 8.1	Manufacturing details of General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100 % cotton will be as per Annex B of this specification.
9.	Page 5 Clause 9.1	Workmanship and finish of the General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> shall be equal to the sealed sample. It shall be best of its class and to the entire satisfaction of the inspector.
10.	Page 9 & 10 Annex A	Technical details for General Service Digital Camouflage (GSDC) <b>Dress No 4B</b> (Afloat) 100% Cotton-

11.	Page 9 Annex B	Manufacturing details for General Service Digital Camouflage (GSDC) <b>Dress No 4B</b> (Afloat ) 100% Cotton-
12.	Page 12 and 13 Appendix I to Annex A:	Digital Camouflage Design/ Pattern Of <b>Dress NO. 4B</b>
13.	Page 14 Annex B	Manufacturing details of General Service Digital Camouflage (GSDC) <b>Dress No. 4B</b> (Afloat) 100% cotton-
14.	Clause 1	GSDC <b>Dress No. 4B</b> (Afloat) 100 % cotton is to be manufactured as per measurement schedule and drawing at Appendix I and Appendix II respectively.
15.	Clause 2	‘PAK NAVY’ soft tally as per Annex C and D of this specification shall be attached above left chest pocket <b>of Dress No. 4B</b> . Jockey /Sea Cap shall be supplied as per Annex E and F.
16.	Page 14, 15 ,16 and Appendices I to annex B	Measurement schedule of <b>Dress No.4B</b> Bush Jacket and Trouser
17.	Appendices II to annex B	Drawing of <b>Dress No. 4B</b> Bush Jacket and Trouser
18.	Page 21	Tech. Details of ‘PAK NAVY’ soft tally for Camouflage <b>Dress No 4B</b>
19.	Page 23	Pak Navy soft tally for Camouflage <b>Dress (4B)</b>
20.	Page 28	Jockey Sea Cap Officers <b>Dress 4B</b>
21.	Page 29	Jockey Sea Cap CPO's, Sailors <b>Dress 4B</b>

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OFFICE OF NRDI (ITD  
WING)

PN/DID/03/12342044

58455

See Distribution

14 February 2022

AMENDMENT IN PN SPECIFICATIONS NO. 01/2018 AND 03/2018

Reference:

A. [PN/NS Dte/03/3514350 dated: 09 Feb 2022](#)

B. [PN/NS Dte/03/3510858 dated: 09 Feb 2022](#)

It is intimated that proposed amendments in PN specifications 01/2018 and 03/2018 have been approved by NHQ (NS Dte) vide references A & B. Same are hereby promulgated for incorporation in relevant PN specifications, please.

MUHAMMAD AFSAR  
Capt PN  
DID

Encl(s):

1. [Amendments in PN Specification 01 2018](#)
2. [Amendments in PN Specification 03 2018](#)

Distribution:

External:

Action:

NS Dte  
Attn: DDNS II

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DP Navy  
Attn: ADP 33 PRE AND  
POST

Chief Inspector of Naval  
Stores  
Attn: I O CLOTHING CINS

CSD N  
Attn: GO I PNCSD

Information:

DNS

DP NAVY

Chief Inspector of Naval  
Stores  
Attn: DCINS

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Information:

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PN/DID/03/12342044 approved by DID Capt PN Muhammad Afsar on 14 Feb 2022

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PN/DID/03/13316519

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See Distribution

23 May 2022

AMENDMENTS IN PN SPECIFICATIONS 01/2018 GSDC DRESS NO 4 (AFLOAT) 100  
PERCENT COTTON

Reference:

A. [PN/NS Dte/03/3717615 dated: 19 May 2022](#)

It is intimated that proposed amendments in PN Specifications 01/2018 of GSDC Dress No 4 (100% Cotton) have been approved by NHQ (NS Dte) vide Reference above. Same are enclosed and hereby promulgated for further necessary action, please.

MUHAMMAD AFSAR  
Capt PN  
DID

Encl(s):

1. [Amendments in PN Specifications No 01 2018](#)

Distribution:

External:

Action:

NS Dte  
Attn: DDNS II

DP Navy

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POST

Chief Inspector of Naval  
Stores  
Attn: I O CLOTHING CINS

Information:

DNS

DP NAVY

Chief Inspector of Naval  
Stores  
Attn: DCINS

CSD N  
Attn: CO PNCSD

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Information:

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PN/DID/03/13316519 approved by DID Capt PN Muhammad Afsar on 23 May 2022

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WING)

PN/DID/03/11690723

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See Distribution

17 December 2021

AMENDMENT IN PN SPECIFICATION NO. 01/2018 AND 03/2018

Reference:

A. [PN/NS Dte/03/3377058 dated: 09 Dec 2021](#)

The amendments proposed in PN Specifications 01/2018 and 03/2018 have been approved by NHQ (NS Dte) vide Reference A. Same are hereby promulgated and may be incorporated in PN Specifications 01/2018 and 03/2018 as given below, please.

**FOR:**

Spec No.	Clause	Page No.	Description
01/2018	11.1	5	Tender Sample to be approved by INS
03/2018	11.1	5	Tender Sample to be approved by INS

**READ:**

Spec No.	Clause	Page No.	Description
01/2018	11.1	5	Tender Sample to be approved by TSR Committee
03/2018	11.1	5	Tender Sample to be approved by TSR Committee

MUHAMMAD AFSAR  
Capt PN  
DID

Distribution:

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Action:

NS Dte  
Attn: DDNS II

DP Navy  
Attn: ADP 33 PRE AND  
POST

Chief Inspector of Naval  
Stores  
Attn: I O CLOTHING CINS

CSD N  
Attn: GO I PNCSD

Information:

DNS

Chief Inspector of Naval  
Stores  
Attn: DCINS

CSD N  
Attn: CO PNCSD

Internal:

Information:

DID  
Attn: DD ID

DID  
Attn: SO TEXTILE

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PN/DID/03/11690723 approved by DID Capt PN Muhammad Afsar on 17 Dec 2021

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DID  
OFFICE OF MD ITD NRDI  
(ITD WING)

PN/DID/03/5598116

58455

See Distribution

23 June 2020

CHANGE OF TITLE DRESS 4

Reference:

- A. PN/COMDEP/CSD N/03/5666972 dated 12 June 2020
- B. PN/DID/03/5622998 Dated 9 June 2020
- C. PN/NS Dte/03/2335545 Dated 5 June 2020
- D. PSO Conference 3/2020
- E. PN Specification 01/2018
- F. PN specification 02/2018
- G. PN/DGITD/03/1056882 dated 28 March 2018

1. It is submitted that the term Dress No 4 (Camouflage) or 4B (Digital) is to be discontinued, and replaced as Dress No 4 as directed vide reference 'C'. Therefore, PN Specifications at reference E & F, same is promulgated vide reference G have been amended.

2. Aforesaid in view, it is requested that Amendment at respective places may be endorsed at your end as per enclosed format.

For: Dress 4B  
Read: Dress 4

MUHAMMAD AYUB  
Cdr PN  
DID

Encl(s):

- 1. [Amendments in PN Specification 01 2018](#)
- 2. [Amendment in PN Specification 02 2018](#)

Viewed by: Lt PN Muneeb Anwar Khan GOIPN/CSD. Date: 31 Dec 2021 13:55:13

Distribution:

External:

Action:

NS Dte  
Attn: DDNS II (AOL)

CSD N  
Attn: EXO PNCSD

Chief Inspector of Naval  
Stores  
Attn: I O CLOTHING CINS

DP Navy  
Attn: ADP 33

Information:

Chief Inspector of Naval  
Stores  
Attn: CINS

DP NAVY

DNS

CSD N  
Attn: CO PNCSD

Internal:

Information:

DITD S  
Attn: DITD (S)

---

PN/DID/03/5598116 approved by DID Cdr PN Muhammad Ayub on 23 Jun 2020

Note: Computer generated documents do not require signature



DGITD  
MATERIEL BRANCH  
NAVAL HEADQUARTERS  
NSSD AREA WEST  
WHARF ROAD KARACHI

PN/DGITD/03/1463776

59256

See Distribution

21 December 2018

AMENDMENT IN PN SPECIFICATION OF DRESS 4B

Reference:

- A. [PN/NS Dte/03/1375033 dated: 12 Nov 2018](#)
- B. [PN/DGITD/03/1285656 dated: 10 Sep 2018](#)
- C. [PN/DGITD/03/1086039 dated: 12 Apr 2018](#)
- D. [PN/DGITD/03/1056882 dated: 28 Mar 2018](#)

Apropos letter at reference A, following amendments may please be incorporated in PN Specification No. 01/2018 & 02/2018 promulgated vide reference D:

a. **Amend Para (16) Packing Details of PN Specification No 01/2018 & 02/2018**

- (i) Packing details at Para 16 may be amended after addition of fabric and Jockey cap packing instruction as follows:

**FABRIC PACKING DETAILS**

- Accepted fabric shall be packed in the form of rolls.
- Each roll shall have length from 100 yards up to 200 yards (within multiple of 4 yds).
- The rolls should be packed/ wrapped in polyethylene sheet, vacuumed and in sealed packing.
- Each roll shall bear identification label indicating description of store, year of manufacture and contract

no, material composition, fabric width and length, contractors name, batch no. ,shrinkage

**JOCKEY CAP PACKING DETAILS**

- 10 X Camouflage Jockey/ Sea Caps bundles shall be packed in a neat and tidy condition in standard polyethylene packing of 0.035 mm thickness. These bags/ bundles shall be sealed with transparent adhesive tape 2.54 cm of thickness 0.04 – 0.05 mm.
- 05 X such bundles (50 caps) shall be packed in Carton Corrugated Card board box (07 ply).
- Each Carton shall contain one size of Camouflage Sea Caps only.
- Each box Board Packing shall be securely and properly packed with transparent adhesive tape 10 cm of thickness 0.04 – 0.05 mm.

(ii) Amended measurement schedule and drawings are also enclosed to replace Appendix 1 and 2 of Annex B at your end please.

ASMA SOHAIL  
Lt Cdr PN  
SO TEXTILE DITD (S)

Encl(s):

1. [Appendix 2 page 17](#)
2. [Appendix 2 page 18](#)
3. [Appendix 2 page 19](#)
4. [Appendix 2 page 20](#)
5. [Appendix 1](#)

Distribution:

External:

Action:

Viewed by: Lt PN Rana Mehdi Hassan GO / PNCSD. Dated: 03 Nov 2021 10:02

DP (NAVY)

CINS

DNS

CSD N

Attn: CO PNCSD

Information:

COMDEP

Attn: SSO (AOL)

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PN/DGITD/03/1463776 approved by SO TEXTILE DITD (S) Lt Cdr PN Asma Sohail on 21 Dec 2018

Note: Computer generated documents do not require signature

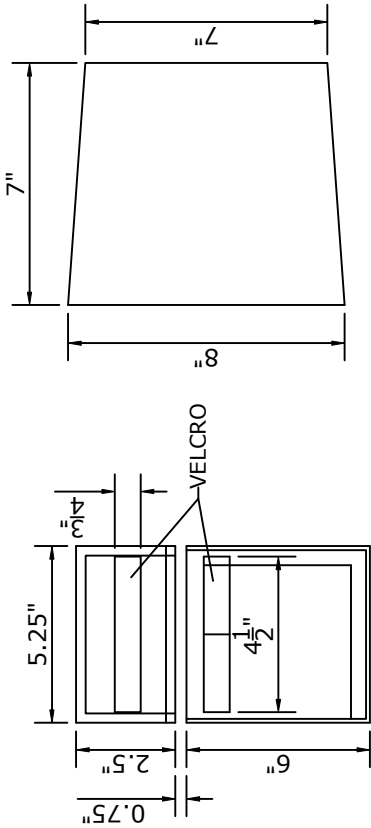
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PROMULGATION DATE 26 Mar 2018

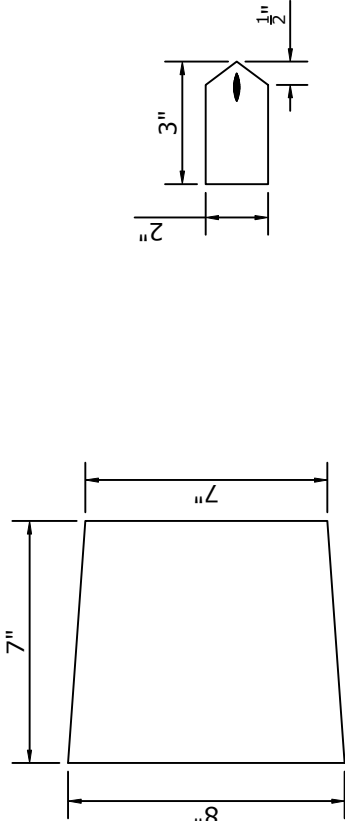


DRAWN BY	CHECKED BY	APPROVED BY
H.D/M	LTCDR	CDR
M.ASGHAR I/c DWG.	ASMA SOHAIL SO.R&D	AZHAR MIR DITD

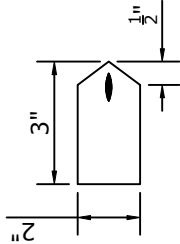
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				22	FRONT POCKET HEM	1	10	SLEEVE PATCH WIDTH TOP	8
33	FRONT POCKET WIDTH	5.25	21	FRONT POCKET PLACEMENT	7.5	09		SLEEVE PATCH LENGTH	7
32	FRONT PLACKET W LEFT SIDE	1.75	20	FRONT POCKET SIDE BOX	1.5	08		ARM HOLE	10.5
31	FRONT PLACKET W RIGHT SIDE	1.25	19	FRONT POCKET LENGTH INCLUDING FLAP	6.75	07		SLEEVE OPENING	6
30	FRONT POCKET TALLY VELCRO	1x5.25	18	FRONT FLAP HEIGHT	2.5	06		SLEEVE LENGTH	23
29	SIDE LOOP LENGTH	3	17	FRONT FLAP WIDTH	5.25	05		SHOULDER	18.75
28	SIDE LOOP WIDTH	2	16	SLEEVE LOOP WIDTH	2	04		BOTTOM	23
27	COLLAR CORNER	2.5	15	SLEEVE LOOP LENGTH	3	03		WAIST	22
26	COLLAR HEIGHT FROM CENTER BACK	3	14	CUFF HEIGHT	2	02		CHEST	23
25	COLLAR	15.5	13	FLAG VELCRO PLACEMENT FROM SHOULDER SEAM	1.75	01		LENGTH FROM CENTER BACK	29
S.NO	ITEM	INC	S.NO	ITEM	INC	S.NO		ITEM	INC



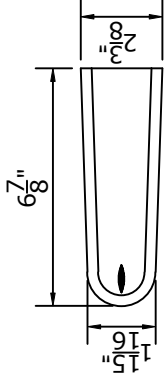
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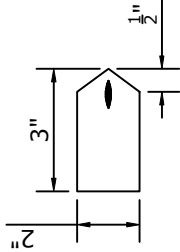
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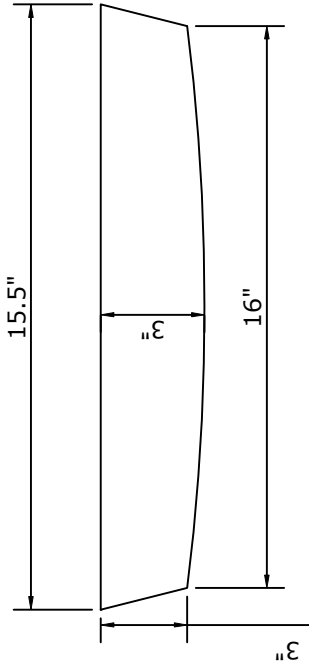
SIDE LOOP



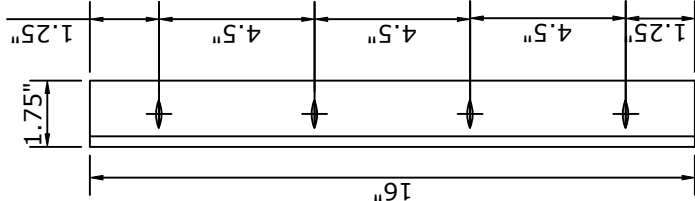
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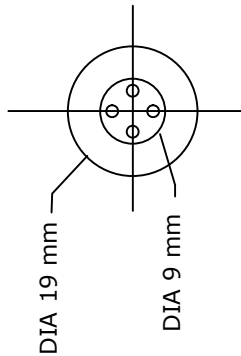
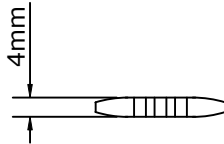
CUFF LOOP



COLLAR



BUTTON HOLE TAG

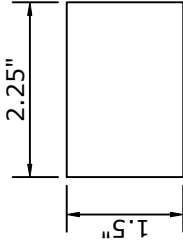


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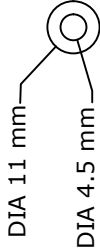
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BACK

BUTTON SCALE:1:2

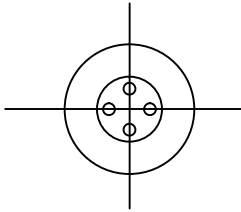


FLAG PATCH



AIR VENT

NAME TALLY



FRONT

SIDE

BACK

BUTTON SCALE:1:2

DITD KARACHI

TITLE: SHIRT CAMOUFLAGE

(SMALL PARTS) SIZE:MF-40

DWG.NO.	TD-2446/2018	DIMENSIONS: INCHES
DATE:	28-08-2018	SCALE: N.T.S

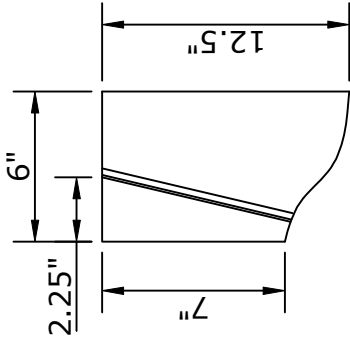
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1253

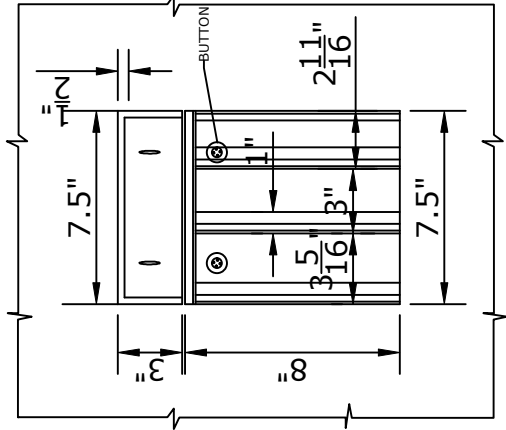
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18 FOR FURTHER DETAILS SEE SEALED SAMPLE.



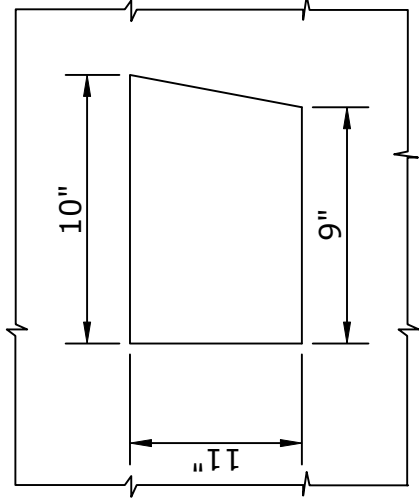




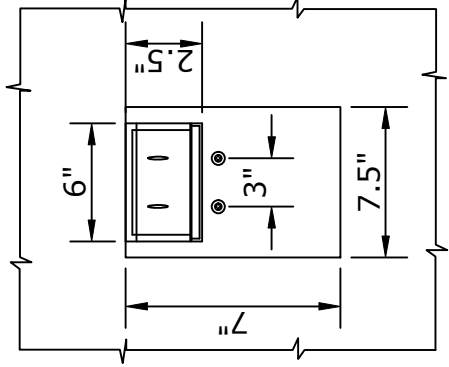
FRONT POCKET



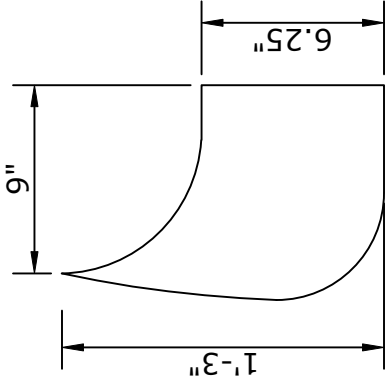
THIGH POCKET



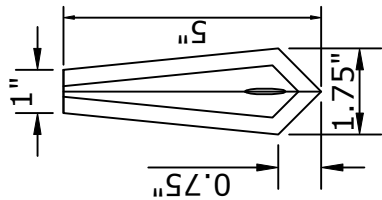
KNEE PATCH



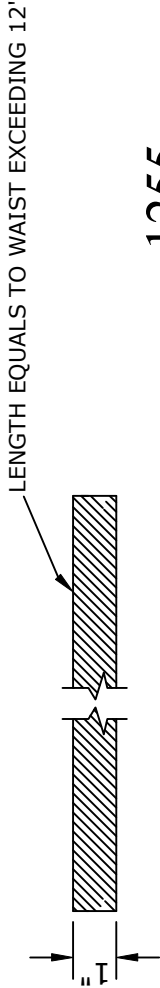
BACK POCKET



HIP PATCH

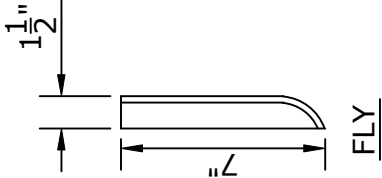


BELT LOOP

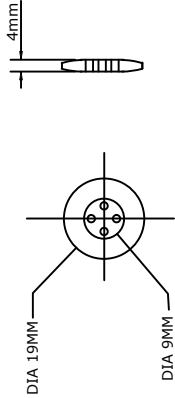


1255

WAIST ADJUSTMENT TAPE



FLY



FRONT

SIDE

BACK

BUTTON

SCALE:1:2

NOTE:

20

FOR FURTHER DETAILS SEE SEALED SAMPLE.

DITD KARACHI

TITLE: TROUSER CAMOUFLAGE  
( SMALL PARTS ) SIZE:MF-36

DWG.NO. TD-2448/2018	DIMENSIONS: INCHES	
DATE: 28-08-2018	SCALE: N.T.S	
DRAWN BY	CHECKED BY	APPROVED BY
--SD--	--SD--	--SD--
H.D/M	LTCDR	CDR
M.ASGHAR	ASMA SOHAIL	AZHAR MIR
I/c DWG.	SO.R&D	DITD

MEASUREMENT SCHEDULE OF DRESS CAMOUFLAGE BUSH JACKET (INCHES)																			
S.No	Description	3XS	2XS	XXS	XSF	XSL	SF	SL	MF	ML	LF	LL	XLF	XLL	XXL	2XXL	3XXL	4XXL	TOL
		30	32	34	36	36	38	38	40	40	42	42	44	46	48	50	52	54	±
01	Length from center back.	28	29	30	29	31	29	31	29	31	29	31	31	31	31	31	32	32	0.75
02	Chest.	18	19	20	21	21	22	22	23	23	24	24	25	26	27	28	29	30	0.5
03	Waist.	17	18	19	20	20	21	21	22	22	23	23	24	25	26	27	28	29	0.5
04	Bottom.	18	19	20	21	21	22	22	23	23	24	24	25	26	27	28	29	30	0.5
05	Shoulder.	16	16.25	16.75	17.25	17.25	18	18	18.75	18.75	19.5	19.5	20.25	20.25	21	21	21	21	0.25
06	Sleeve Length.	21.5	22	23	23	25	23.5	25	23	25	23.5	25	24.5	25	25	25.5	25.5	25.5	0.5
07	Sleeve opening.	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6.5	6.5	6.5	0.38
08	Arm hole.	9	9.25	9.5	10	10	10	10	10.5	10.5	10.5	10.5	11	11	11	11.5	11.5	12	0.5
09	Sleeve patch length.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0.25
10	Sleeve patch width top.	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0.25
11	Sleeve patch width bottom.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0.25
12	Flag Velcro size.	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	4/6CM	0
13	Flag Velcro placement from shoulder seam.	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0
14	Cuff height.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.13
15	Sleeve loop length.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0.25
16	Sleeve loop Width.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.13
17	Front flap width.	4.75	4.75	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	0.25
18	Front flap height.	2.25	2.25	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.13
19	Front pocket length including flap.	6	6	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	0.25
20	Front pocket side box.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.13
21	Front pocket placement.	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	0.25
22	Front pocket hem.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.13
23	Front pocket Velcro height.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
24	Front pocket Velcro width.	4.25	4.25	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0.25
25	Collar.	13.5	14	14.5	14.5	15	15	15.5	15.5	16	16	16.5	16.5	17	17.5	18	18	18.5	0.38
26	Collar height from center back.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0.13
27	Collar corner.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.13
28	Side loop width.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0.13
29	Side loop length.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0.13
30	Front pocket tally Velcro (width & Length).	1/4.75	1/4.75	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	1/5.25	0.13
31	Front placket width right side.	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	0.13

32	Front placket width left side.	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.13
33	Front pocket width.	4.75	4.75	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	0.13

**APPENDIX I TO ANNEX B TO  
PN SPECIFICATION NO 0 /2018  
PROMULGATION DATE 26 Mar 2018**

<b>MEASUREMENT SCHEDULE OF DRESS CAMOUFLAGE TROUSER (INCHES)</b>																			
		3XS	2XS	XXS	XSF	XSL	SF	SL	MF	ML	LF	LL	XLF	XLL	XXL	2XXL	3XXL	4XXL	TOL
SR	DESCRIPTION	26	28	30	32	32	34	34	36	36	38	38	40	42	44	46	48	50	±
1	Waist.	26	28	30	32	32	34	34	36	36	38	38	40	42	44	46	48	50	0.5
2	Hip (8in from belt).	35	37	39	41	41	43	43	45	45	47	47	49	51	53	55	57	59	0.5
3	Thigh.	23	24	25	26	26	27	27	28	28	29	29	30	31	32	33	34	35	0.5
4	Knee 13" from crouch.	9.25	9.5	9.75	10	10	10	10.25	10.25	10.5	10.5	10.75	10.75	11	11.25	11.5	11.75	12	0.25
5	Bottom.	8.5	8.75	9	9	9	9.25	9.25	9.25	9.25	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	0.25
6	Out seam.	41	41	41	39	42	39	42	39	42	39	42	42	42	42	42	42	42	1
7	Front rise.	10.5	10.75	11	11.25	11.5	11.5	11.75	11.75	12	12	12.25	12.5	12.75	13	13.25	13.5	13.75	0.25
8	Back rise.	15.5	15.75	16	16.25	16.5	16.5	16.75	16.75	17	17	17.25	17.5	17.75	18	18.25	18.5	18.75	0.25
9	Front patch length.	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0.25
10	Front pocket opening waist.	2	2	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	2.25	0.25
11	Front pocket side seam.	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0.25
12	Thigh pocket length.	7.5	7.5	8	8	8	8	8	8	8	8	8.5	8.5	8.5	8.5	8.5	8.5	8.5	0.25
13	Thigh pocket width.	7	7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	8	8	8	8	8	8	8	0.25
14	Thigh pocket flap height.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0.13
15	Back pocket flap width.	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0.25
16	Back pocket flap height.	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0.13
17	Back patch inside length.	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	0.25
18	Waist belt.	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.13
19	Thigh pocket placement from Waist belt.	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	0.25
20	Belt loop length.	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0.25
21	Belt loop width bottom.	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	0.13
22	Belt loop width top.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.13
23	Fly width.	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.13
24	Fly length full.	6.5	6.5	7	7	7	7	7	7	7	7	7	7.75	7.75	7.75	8	8	8	0.25

Viewed by: Lt PN Rana Mehdi Hassan GO I PNCSD. Dated: 03 Nov 2021 10:08:15

**AMENDEMENTS IN PN SPECIFICATION 01/2018 - ANNEX A**

**FOR:**

S NO	ITEM	REQUIREMENT
<b>BASE FABRIC MATERIAL SPECIFICATION (RIBBED CAMOUFLAGE CLOTH)</b>		
4.	<b>Colors Scheme</b>	
	Black	19-1101 TCX
	Dark Grey	18-4006 TCX
	Medium Grey	17-4405 TCX
	Light Grey	15-4003 TCX
	Grey	16-4702 TCX
	Pastel Grey	13-4303 TCX
		Or as per approved samples held with CINS

**READ:**

S.NO	ITEM	REQUIRMENT				
BASE FABRIC MATERIAL SPECIFICATION (RIBBED CAMOUFLAGE CLOTH)						
4. a.	Color Shade	Panton Shade	OR	L a b Values		
				L	a	b
	Black	19-1101 TCX	30.96	2.44	0.82	
	Dark Grey	18-4006 TCX	49.64	0.26	0.75	
	Medium Grey	17-4405 TCX	54.41	0.17	0.28	
	Light Grey	15-4003 TCX	65.30	0.31	2.28	
	Grey	16-4702 TCX	72.92	-1.23	3.12	
	Pastel Grey	13-4303 TCX	77.34	-0.64	3.25	
	b.	Color Difference	(ΔE ≤ 1)			

## **AMENDEMENTS IN PN SPECIFICATION 01/2018**

### **FOR:**

<b>Article No</b>	<b>ITEM</b>
0103.	<b>INTRODUCTION</b>
	1. This specification is prepared by Directorate of Indigenous Technical Development, 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 cannot be implemented without prior approval of DITD. This specification supersedes and replaces PN Specifications No. 03/2017 and PN Specifications 04/2017 promulgated earlier in relation to the items mentioned herein.

### **READ:**

<b>Article No</b>	<b>ITEM</b>
0103.	<b>INTRODUCTION</b>
	1. This specification is prepared by Directorate of Indigenous Technical Development, 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 cannot be implemented without prior approval of DITD. This specification supersedes and replaces PN Specifications No. 03/2017.



DGITD  
NSSD WEST WHARF  
ROAD KARACHI

PN/DGITD/03/1086039

59256

See Distribution

12 April 2018

AMENDMENT PN SPECIFICATION OF GENERAL SERVICE DIGITAL CAMOUFLAGE  
(GSDC) DRESS NO.4B 100 COTTON AND 60 COTTON 40 POLYESTER

Reference:

- A. [PN/NS Dte/03/1078667 dated: 11 Apr 2018](#)
- B. PN/ Chief Inspector of Naval Stores/ 03/1073494 dated 06 Apr 18
- C. [PN/DGITD/03/1056882 dated: 28 Mar 2018](#)
- D. PN/DGITD/03/1083677 dated 11 Apr 18

1. Apropos letter at reference A and B, following amendments may please be incorporated in PN Specification No. 01/2018 and 02/2018 promulgated vide reference C:

a. Amend Para (3) under heading "Base Fabric Performance testing" Annex A of PN Specification No 01/2018 and 02/2018

Color Fastness to Rubbing (Wet) Staining

For

GS: 3 or better

Read

GS: 4 or better

b. Amend Para (14) under heading "Base Fabric Performance testing" Annex A of PN Specification No 01/2018 and 02/2018"

Pilling resistance after 5,000 cycles

For

Grade 4

Read

Grade 5

2. Letter at reference D may please be treated as cancelled.

ASMA SOHAIL  
Lt Cdr PN  
SO TEXTILE DITD (S)

Viewed by: NSO Naeem Uddin CAO PNC (S) Dated: 21 Mar 2018 12:23:34



Distribution:

External:

Action:

DP (NAVY)

CINS

DNS

CSD N

Attn: CO PNCSD

Information:

COMDEP

Attn: SSO

DNAI

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PN/DGITD/03/1086039 approved by SO TEXTILE DITD (S) Lt Cdr PN Asma Sohail on 12 Apr 2018

Note: Computer generated documents do not require signature

Viewed by: NSO Naeem Uddin CAO PNCSD. Dated: 15 Mar 2021 12:23:34