

PAKISTAN NAVY SPECIFICATIONS  
FOR VEST SUMMER COTTON

DRAWING NO. TD-1471/2001 DATED 03 NOV 01

\* TD-2158/2012 dt 01 Jun 12.  
FOREWORD

1. a. 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.
- b. This specifications or any drawing pattern or other information issued in connection therein may only be used for specific enquiries, tenders or orders placed by a competent authority. It is not to be used for any other purpose whatsoever without the prior approval of DITD.

SCOPE

2. This Specification covers manufacturing/inspection requirements for Vest Summer to be used in Pakistan Navy. It defines and lays down the quality, standard, details of materials, manufacture, workmanship and finish.

MATERIAL

3. The material shall be subjected to tests as deemed necessary by the inspection authority in order to determine their suitability. The knitted fabric shall be properly bleached, free from oil, grease or any added material. *vide DITD letter TD/2400/Vest Summer 12/2695 dt 20 Sep 2013.*

- a. Yarn Pure cotton hosiery ~~yarn~~ 40<sup>s</sup> count. The number of turns per inch shall be 17 max. The yarn shall be evenly spun, uniformly twisted and shall be free from neps and spinning defects

- b. Construction of Sewing Thread

1. Count cotton 28/2
2. Count polyester 50/3

- c. Blending Percentage

100% Cotton

- d. Shade

White

- e. Weave

Knitting fabric



weight per meter square - (RH 65% at 21 ± 2 °C) PN/UNIFORM / 14 / 01  
 f. Weight (RH 66% at 32 °C)  
 98 grms. 170 ± 5 Grams  
 Chest 14.6%

g. Shrinkage SHRINKAGE %  
 Length ~~45%~~ -5% and +1.5%  
 Chest -5% and +1.5%

h. Scouring Loss  
 Negligible

(vide DTD letter TD/2400/  
 Vest Summer/12/2695  
 dt 20 Sep 13.

j. Finish and Workmanship

The finish and workmanship should strictly conform to the specifications. It is to be the best of its class and to the satisfaction of inspecting authority.

#### MANUFACTURING DETAILS

4. Following will be the manufacturing details

- \* a. For all dimensions schedule of measurement as per (Annex 'A') and Drawing No. TD-1471/2001 dated 03 Nov 01 shall be consulted.
- b. All seams shall be secured by over locking thread of cotton.
- c. The bottom of the Vest shall be hemmed 01 inch with over lock stitching.
- d. The neck of the vest shall be shaped / formed as per drawing.
- e. In no cases the vest shall be over boarded to increase the dimensions.
- f. The finished vest shall be properly bleached and free from any added materials
- g. Number of stitches per 25 mm shall be 9 to 11
- \* h. Pocket: The fabric of the <sup>inner</sup> Pocket will be same as base fabric.

#### INSPECTION DETAILS

5. Each constant vest of 32, 34, 36, 38, 40, 42, 44 and 46 sizes shall be supplied by the manufacturer at the time of tendering

a. Marking of Stores :- A printed label shall be stitched at inner portion of the neck of vest. The label shall be clearly and indelibly marked with contractor's name, recognized trade mark, the year of manufacture, Cat No and size.

b. Marking of Bale :- The marking on bale will be stenciled with quick drying black indelible ink / paint in clearly defined characters as described below:-

- i). On Front and Top  
 Catalogue No. and Designation of the store packed.  
 Contract No. and Date  
 Quantity of the item packed.
- ii) On Back  
 Consignee address  
 Designation i.e Railway Station etc.  
 Weight of the bale.  
 The No. of individual bale and the total No. of bale in the consignment joined by the word of viz 2 of 300.

\* Drawing No. TD-2158/2012 dt 01 Jun 12.

Vide DTD letter TD/2400/Vest Summer/12/3112





- iii). On End  
 Consignor's Name  
 Voucher No. or Inspection Note No. and date  
 Month and year of packing.

### ACCEPTANCE OF STORES

6. Inspection of the vests is to be carried out to the satisfaction of CINS.
- Each acceptable store shall be stamped with inspecting authority mark close to the contractors markings
  - The rejected stores shall be marked by inspecting authority to avoid re-submission of the same by the supplier.
  - Each accepted bale of stores shall be clearly stamped with inspectors acceptance mark.

### PACKING INSTRUCTIONS

7. Processing and quality of packing shall be examined / tested as the inspector may consider necessary in order to determine whether they conform to the specification. The vest shall be folded properly and twelve such folded vests of same size shall be placed one over the other and tied with jute or line cotton 3mm to form a bundle. Each such bundle will be enclosed in polythene bag of 0.127mm thick. The mouth of polythene bag shall be sealed / closed. Twenty such bundles shall be packed in the form of bale in following manner.

- |                          |   |                                  |
|--------------------------|---|----------------------------------|
| 1 <sup>st</sup> covering | - | Polythene sheet 0.127mm thick    |
| 2 <sup>nd</sup> covering | - | Two layers of cloth Hessian No.2 |

OR

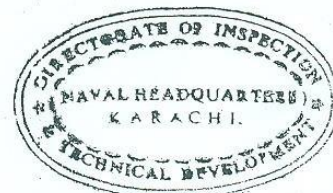
Two layers of cloth sheeting light undyed 153gm per sq meter. A packing slip shall be enclosed in each bale describing full details about the store packed.

### DELIVERY

8. The consignment of store will be delivered either 'Packed' or 'Loose packed' or 'Loose' in accordance with terms of the contract. The definition for 'Packed' or 'Loose packed' or 'Loose' are as under :

#### Packed

This will require the stores to be packed in all respect in accordance with the specification. Invariably this term will be used for stores inspected at firms premises and for which the firm is not only required to provide packing materials but is also required to pack them in conformation with specification before they dispatch them to the ultimate consignee.



Loose Packed This would require the stores to be placed in the packing stipulated in the specification but in such a manner that the packing is not damaged on unpacking for inspection. This type of packing will be stipulated only in the case of stores required to be inspected at the Depot premises but for which special packing is required to be supplied by the contractor which cannot under normal circumstances be provided by the Depots themselves.

Loose This indicates that the stores will be brought into the Inspection Depot loose in the manufacturer's own packing which will be taken back after delivering the stores in the Depots. This terms will be used only in the case of stores which are required to be packed by the Depot and for which the Depot will provide the packing materials.

#### REPLACEMENT OF STORES BY THE CONTRACTOR

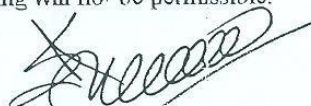
9. The supplier is responsible for replacement of the stores if any part thereof is found to be not consulting to this specification.

#### RESPONSIBILITY FOR SAFETY

10. The supplier manufacturer is fully responsible for the safety of the supplies during inspection, storage at firm's premises, proper packing, dispatch and final delivery of the stores.

#### NOTES

- a. All stitching should be over-locked.
- b. Tender sample to be approved by CNS.
- c. This specification will be subject to changes as and when required.
- d. It is to be ensured that each consignment is packed either in cloth Hessian No.2 or cloth sheetings. Mix packing will not be permissible.

  
SALEEM AKTHAR  
Captain Pakistan Navy  
Director

#### Annex

A. Schedule of measurement

#### Encl:

1. Drawing No. FD-1471/2001 dated 3 Nov 2001

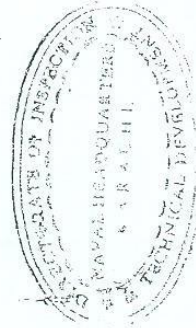
\* TD-2158/2012 dt 01 Jun 2012.

ANNEX A TO PN SPECIFICATION  
NO PN UNIFORM 14/2001

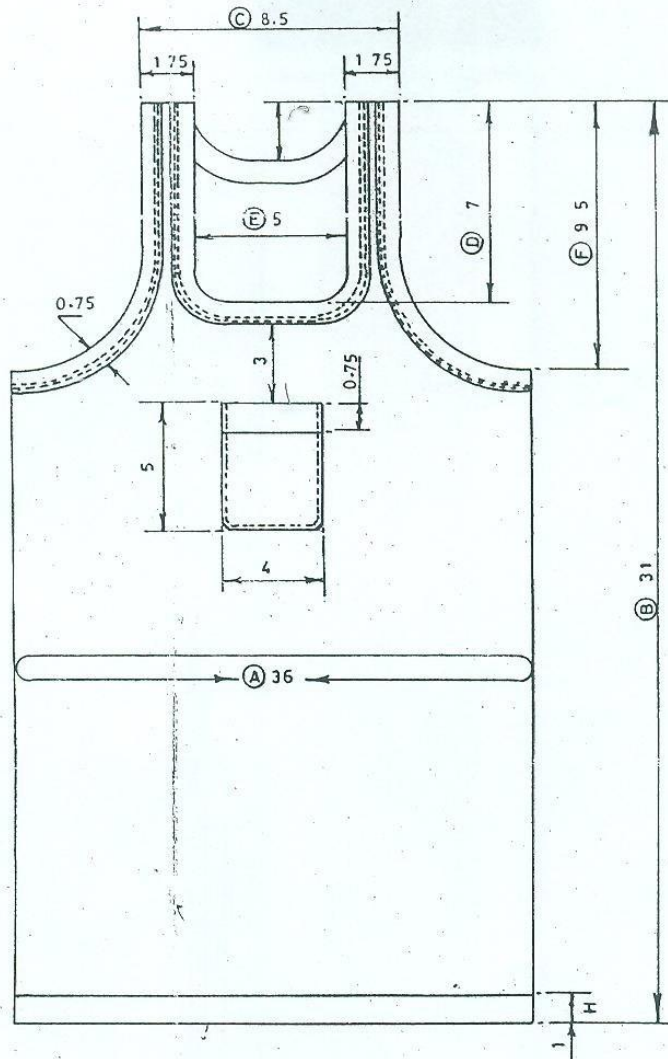
SCHEDULE OF MEASUREMENTS OF VEST SUMMER COTTON

All measurements in inches

SIZE	ROUND CHEST	LENGTH	WIDTH OF SHOULDER STRAP	DEPTH OF NECK FROM SHOULDER LINE	WIDTH OF NECK FROM SHOULDER	WIDTH OF SHOULDER STRAP	WIDTH OF SHOULDER STRAP	WEIGHT PER 10 VESTS IN GRAMS	WIDTH OF HEM
	A	B	C	D	E	F	G	H	
32	26.5	27.5	8.5	7	5	9	826	1"	
34	28	29	8.5	7.7	5	9.5	875	1"	
36	32	29	8.5	7	5	9.5	931	1"	
38	32	30	8.5	7.25	5	9.5	1038	1"	
40	36	31	8.5	7.25	5	9.5	1131	1"	
42	36	32	8.5	7.5	5	9.5	1204	1"	
44	38	33	8.5	7.5	5	10.5	1304	1"	
46	38	34	8.5	7.75	5	10.5	1404	1"	
TOLERANCES	+1	+1	+0.5"	+0.5"	+0.5"	+0.5"	+ 30 gms	+0.25"	







- A = ROUND CHEST  
 B = LENGTH  
 C = WIDTH OF SHOULDER STRIP  
 D = DEPTH OF NECK FROM SHOULDER  
 E = WIDTH OF NECK FROM SHOULDER  
 F = WIDTH OF SHOULDER STRIP  
 G = WEIGHT  
 H = HEM



<b>DITD NHQ KARACHI</b>		
TITLE <b>VEST SUMMER COTTON (SIZE 40)</b>		
DWG NO: TD/158/2012		DIMENSION: INCHES
DATE: 01-06-2012		SCALE: NTS
DRAWN BY <i>Adnan Nisaf</i>	CHECKED BY <i>Muzaffar</i>	APPROVED BY <i>Agib Rifat Shaikh</i>
ADNAN NISAF D/MAN	LT CDR RAO MUZAFFAR SO. R & D	CAPTAIN AGIB RIFAT SHAIKH TIM D I T D