

PN SPECIFICATION 01/2016



PAKISTAN NAVY SPECIFICATION 01/2016

PROMULGATION DATE: 11 Feb 2016

## SHOE JOGGERS

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**AMENDMENT RECORD**

Amd No	Date	Text Affected	Signature and Date

**REVISION NOTE**

The specification has been prepared to bring the test methods and procedures in 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 feed back form placed at Annex F. However, such an alteration 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.

CONTENTS

<u>Description</u>	<u>Page</u>
Contents	03
<b>Details</b>	
Designation	04
Usage	04
Introduction	04
Scope	04
Related Documents	04
Terms & Definitions	04
Technical Details of Shoe Joggers	04
Last	04
Design	05
Sizes	05
Manufacturing details of Shoe Joggers	05
Quality of Workmanship and finishing	06
Testing	06
Tender Sample	06
Advance Sample	06
Special Instruction	06
Identification Label	07
Inspection	07
Stamping of Accepted/Rejected Stores by Inspector	07
Packing Details	09
Packing List	09
Marking of Stores	09
Delivery	10
<b>Annexes:</b>	
A. Measurements and Dimensions	11
B. Drawings of Shoe Joggers and Packing	12
C. Technical Details of Shoe Jogger	14
D. Terms & Definitions	17
E. Guideline for Inspection –General Defects	18
F. Feed Back Form	20

1. **DESIGNATION**

1.1. Shoe Joggers

2. **USAGE**

2.1 Shoe Joggers to be used by CPOs/ Sailors of PN during physical trainings and sports activity.

3. **INTRODUCTION**

3.1 This specification is promulgated by Directorate of Indigenous Technical Development, Karachi to provide necessary guidance to the potential manufacturers / suppliers of the item 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 all other specifications promulgated earlier in relation to the items mentioned herein.

3.2. This specification booklet includes 06 Annexes and consists 20 pages, including the cover.

4. **SCOPE**

4.1 This specification covers manufacturing/ inspection requirements of Shoe Joggers to be used by CPOs/ Sailors of PN during physical training and sports activity. 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 these specifications are:

- |    |                      |   |
|----|----------------------|---|
| a. | AATCC-20             | Determination of fiber quality.   |
| b. | ASTM E 227-67        | Standard method for optical Emission Spectrometric analysis for aluminium and aluminium alloys by the point to plane technique. |
| c. | ASTM D2240-04        | Test method for Rubber Property- Durometer Hardness.  |
| d. | SATRA TM 92          | Resistance of footwear to flexing.  |
| e. | SATRA STD 185        | Sole Adhesion tester.   |
| f. | ASTM E 313           | Determination of Whiteness Index.   |
| g. | SATRA TM 144         | Determination of Slip resistance property.  |
| h. | BS EN ISO 20344:2011 | Personal Protective equipment – Test methods for footwear   |

6. **TERMS & DEFINITIONS**

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

7. **TECHNICAL DETAILS OF SHOE JOGGERS**

7.1 The required shoe joggers shall have parameters mentioned at Annex C of this specification:

8. LAST

8.1 All sizes of last should be equal to the one mentioned at Annex A to these specifications. While manufacturing the Shoe a hard material of 3.2 mm thick is to be added on the bottom of the last in order to provide a space for inserting a detachable sock.

8.2 The suppliers/ manufacturer must intimate the size roll of the last/ moulding foot in their possession conforming to the specified particulars and must get representative samples approved by the Inspecting Authority before commencing manufacture.

8.3 Details of dimensions of the specified last of various sizes i.e. from 06 to 11 are given in the Annex A of this specification.

9. DESIGN

9.1 The make, shape and design of shoe joggers shall be as per drawing attached. The shoe Joggers shall have leather vamp without toe cap, half bellowed tongue, facing with eyelets, fashion strips at sides, back strap, inner lining, detachable socks, Polyurethane (PU) sole and Polyester laces.

10. SIZES

10.1 The Shoe Joggers shall be furnished in the sizes 2-11 (UK standards). Vide DITD letter No. PD/2400/GEN/14/363 dated 01-03-16.

11. MANUFACTURING DETAILS OF SHOE JOGGER

11.1. UPPER

a. The components of Shoe Jogger shall be cut from the materials specified at Para 7 above.

b. Sides of the Shoe Jogger shall be provided with fashion strip stitched with 4 rows of machine stitches, shape and design shall be as per drawing/ approved sample/ or any suitable.

c. The half bellowed tongue with top lining of Sponge lined with synthetic fibres be provided. An identification label as mentioned in para 17 of this specification should be attached on the reverse side of the tongue, as mentioned in drawing. Size and dimensions shall be as per Annex A of this specification.

d. Collar shall be provided with foam covered with polyester knitted fabric lining. Polyester knitted fabric inner lining shall be provided at half way at quarter.

11.2. SOLE

a. Polyurethane Direct Injection Molded Sole in double layer to be provided. Mid Sole shall be in White Colour and Outer Sole shall be in Grey Colour having tread pattern to provide adequate slip resistance.

b. Surface of PU sole shall be free from air bubbles, blemishes and other visible defects. All the spew shall be neatly trimmed and shall have clean edges.

c. The finished sole shall be flexible. Tread pattern shall have prominent design / indentations to make it non-slippery.

PN SPECIFICATION 01/2016

11.3 **SOCKS** Detachable sock made up of EVA soft foam, 4mm thick, as per specification mentioned at Annex C of this specification.

11.4 **LACES** Polyester/cotton, round/flat, braided, white, plastic tip laces shall be provided with each shoe joggers. Spare pair of laces shall be provided with each pair of shoe.

11.5. **STITCHING** Stitching shall be neatly and evenly done with Nylon thread 3/ 50 Den or polyester 34/2. All protruding threads shall be trimmed off.

12. **QUALITY OF WORKMANSHIP AND FINISHING**

12.1 Workmanship and finish of the shoe shall be equal to the sealed sample. It shall be best of its class and to the entire satisfaction of the inspector.

13. **TESTING**

13.1 The material shall be subjected to tests laid down in this specification at Annex C and related documents. At least two pair of joggers of same or different sizes will be required to complete the entire test mentioned at Annex C 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 the B/R samples tested from any reputable Laboratory other than PN. However, any test considered important by Inspecting Authority other than mentioned at Annex C may also be conducted by inspecting authority.

14. **TENDER SAMPLE**

14.1 Tender sample to be approved by INS. 05 pairs of shoe joggers be provided to INS.

15. **ADVANCE SAMPLE**

15.1 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 given as above.

15.2 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 pairs, whichever are more alongwith samples of materials for inspection.

15.3 The approval of the sample mentioned in Para 14 & 15 authorizes the commencement of bulk production but does not relieve the suppliers/ manufactures from compliance with all the provisions of this specification.

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

15.5 Firm shall provide advance sample along with quality verification reports of shoe from an accredited laboratory.

16. **SPECIAL INSTRUCTIONS**

16.1 **CARE LABEL INSTRUCTIONS** Joggers are capable of being cleaned by using conventional means to maintain smart & functional appearance. Following care instructions in the form of leaflet shall be provided with each pair of shoe:

- Clean the shoe with a damp cloth using a solution of water and mild soap.
- The sole of shoe shall be cleaned frequently when feel necessary using conventional means to maintain smart and functional appearance.

**Note:** Firm shall provide usage warranty of one year at the time of inspection.

16.2 **PACKING/ STORAGE INSTRUCTIONS** Polyurethane are prone to degradation due to Hydrolysis damage when they are stored in warm, moist conditions for long period. Firm will ensure adequate storage by providing preferably silica gel bags and holes in the box of each pair of shoe or by any other means upto the satisfaction of inspecting authority. Following packing/ storage instructions shall be provided both in English as well as Urdu with the packing list during inspection and with each pair of shoe in the form of leaflet for convenience of Depots and end user:

- Store in a dry and well ventilated area.
- Frequent usage actually prolongs the life of Joggers.
- Use of poly bags for storage of shoe shall be prohibited.
- In ware houses storage of Polyurethane (PU) soled shoe at higher temperature will shorten the overall storage life of the product. It is recommended that PU sole Joggers are stored at temperature below 30°C and at low level humidity.

**Note:** Firm shall provide a shelf life certificate for a period of 4 years at the time of inspection.

17 **IDENTIFICATION LABEL** Each Shoe Joggers shall bear the following information on Main Label attached on inside edge of facing, as indicated in the drawing:

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

18. **INSPECTION**

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

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

18.3 **Inspection of Shoe Jogger** 100% of the offered store shall be inspected. The guide lines for such examination/inspection are listed at Annex E.

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

18.5. The shoe joggers shall be examined for the correctness of pairing, material, shape, design, dimension, size, workmanship and finish.

PN SPECIFICATION 01/2016

18.6. All shoe joggers shall be inspected in pairs and shall be accepted and rejected as pair. Defective lasting, mouldings and damages to upper and insoles during moulding are to be especially checked.

18.7. The Shoe Joggers shall be examined to ensure that they are free from surface defects such as cracks, pits, cuts, needle holes, vanish colour, damaged components, objectionable molding marks etc.

18.8. White/Grey colour of the sole shall be uniform through out and surface shall be free from cavity, streaks flashes and superfluous material.

18.9. Inside of the shoe jogger shall be free from ridge and gathering of fabric or improper pasting.

18.10 Molded surface shall be free from detrimental imperfections of mixing of sole colour and shall show no sign of deformation.

18.11. 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.

18.12. If on examination 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.

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

18.14. Shoe Joggers with major defects as described in Annex E of this specification will be rejected.

18.15. **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.

18.16. **Responsibility for Compliance** The inspection set forth in this specification shall become 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).

18.17 **Replacement by the Contractor** The supplier manufacture 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.

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

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

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

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

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

20. **PACKING DETAILS** The store when ordered to be delivered 'PACKED' shall be packed as follows:

- The pair of joggers shall be packed in a neat, dry and clean condition in standard packaging card board box as per drawing at Annex B.
- Ten pairs of joggers of one size only shall be packed in a thick Boxboard/Flouring. Packing of mixed sizes shall be avoided and shall not be normally permitted.
- The empty spaces if any shall be filled with suitable cushioning materials.
- Strapping shall be done in accordance with the instruction of Inspecting officer.
- The total weight of package shall not exceed 35kg.
- Each Box Board packing shall be securely and properly packed.

21 **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.

22. **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' viz. 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.

23. **DELIVERY**

- 23.1. The consignment of store will be delivered in accordance with the terms of the contract.
- 23.2. The supply shall be tendered for inspection alongwith required packing material either at the premises of the inspection depot of the firm or at such a place as will be stipulated in the contract.
- 23.4. The store shall be delivered in Brand new, clean and dry condition.
- 23.5. 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.

xxxxxxxxxxSDxxxxxxxxxx  
MUHAMMAD TAHIR KARIM  
Captain Pakistan Navy  
Director

Annexes:

- A. Measurements and Dimensions'
- B. Drawings of Shoe Joggers and packing
- C. Technical Details of Shoe Joggers
- D. Terms & Definitions
- E. Guideline for Inspection – General Defects
- F. Feed Back Form

Distribution:

DNS

DP (N)

CINS

CO PNCSD

ANNEX A TO  
PN SPECIFICATION NO 01/2016.  
PROMULGATION DATE 11 Feb 2016

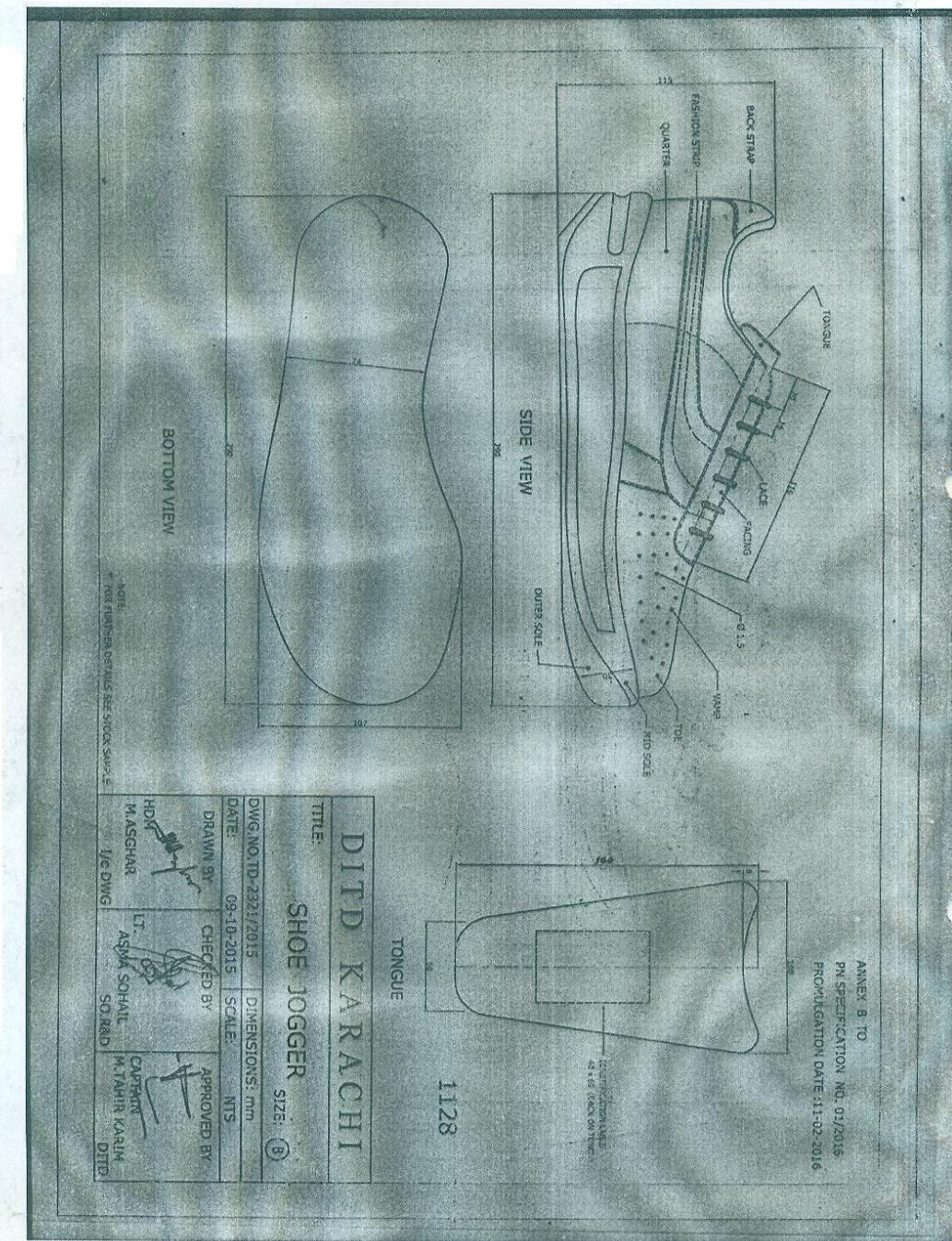
### MEASUREMENTS AND DIMENSIONS

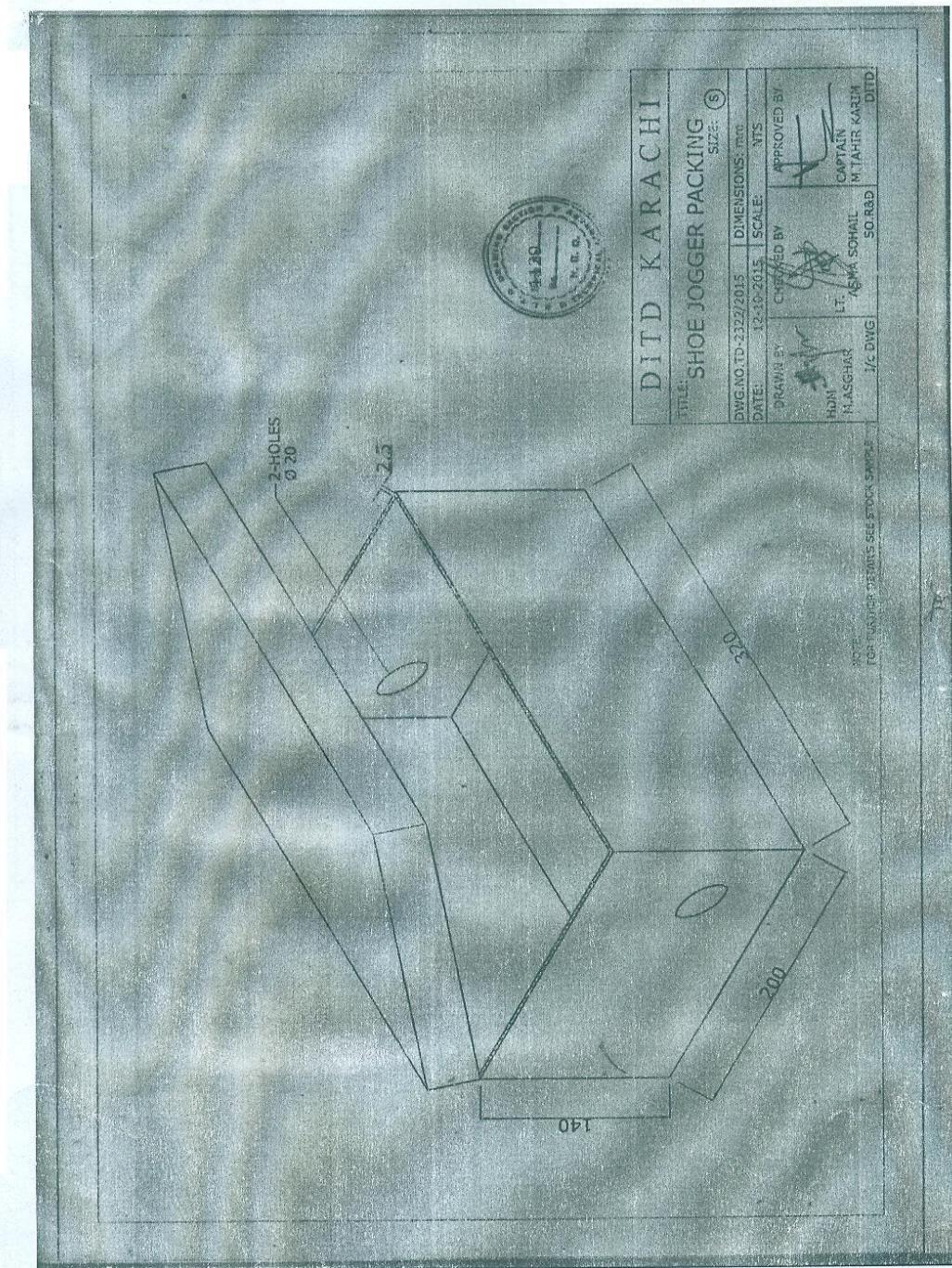
#### SIZE ROLL OF LAST MEASUREMENTS IN MILLIMETERS

SIZE	JOINT	INSTEP	LENGTH ON SIZE STICK	W UK
2	219.07 mm	220.66 mm	213.78 mm	21
3	225.42 mm	227.01 mm	222.24 mm	22
4	231.77 mm	233.36 mm	230.71 mm	23
5	238.12 mm	239.71 mm	239.17 mm	24
6	244.47 mm	246.06 mm	247.64 mm	25
7	250.82 mm	252.41 mm	256.10 mm	26
8	257.17 mm	258.76 mm	264.57 mm	27
9	263.52 mm	265.11 mm	273.03 mm	28
10	269.87 mm	271.46 mm	281.50 mm	29
11	276.22 mm	277.81 mm	289.96 mm	30

**Note:**

1. Measurements are in mm excluding 1/8" (3.2 mm) Thick, hard material sheet at the bottom of the last to accommodate socks.
2. Tolerance  $\pm 0.5$  mm.





**ANNEX C TO  
PN SPECIFICATION NO 01/2016.  
PROMULGATION DATE 11 Feb 2016**

**TECHNICAL DETAILS OF SHOE JOGGERS**

S NO	ITEM	REQUIREMENT
<b>MATERIAL SPECIFICATIONS</b>		
01.	Design	As per drawing attached at Annex B or any design suitable of joggers being used for sports activity
02.	Weight per pair of shoe	650 - 750 gms
03.	<u>Upper</u>	
	(a) Quarter/Counter	
	(1) Material	Leather Buff Nubuck vide DITD letter No. PN/MDITD/03/177470 dated 28-04-16.
	(2) Thickness	1.4 - 1.6 mm
	(3) Colour	White WI= 70 ± 10 or Grayish White
	(b) Toe/ Vamp	
	(1) Material	Leather Cow Nubuck vide DITD letter No. PN/MDITD/03/177470 dated 28-04-16.
	(2) Thickness	1.6 - 1.8 mm
	(3) Colour	White WI= 70 ± 10 or Grayish white
	(c) Side Flash	
	(1) Material	Rexine (PVC with synthetic fabric lining)
	(2) Thickness	1.0 - 1.1 mm
	(3) Colour	White WI= 70 ± 10 or Grayish white
	(d) Back Strap	
	(1) Material	Leather
	(2) Thickness	1.0 - 1.5 mm
	(3) Colour	White WI= 70 ± 10 or Grayish white
	(e) Facing	
	(1) Material	Leather Buff Nubuck vide DITD letter No. PN/MDITD/03/177470 dated 28-04-16.
	(2) Thickness	1.4-1.6 mm
	(3) Colour	White WI= 70 ± 10 or Grayish white
	(f) Tongue	
	(1) Material	Sponge foam with PU coated
	(2) Colour	White
	(3) Thickness	2 - 3 mm

04.	<u>Lining Material</u>	
	(a) Vamp (1) Material (2) Colour (3) Thickness	PVC sheet having perforations with synthetic fibre coating or Non woven Polyester fabric with rubber White 0.5 - 0.6 mm
	(b) Quarter (1) Material (2) Colour (3) Thickness	Foam with knitted Polyester lining on both sides White $2 \pm 0.2$ mm
	(c) Tongue (1) Material	Knitted Polyester lining
	(d) Collar (1) Material (2) Thickness	Foam padding with knitted polyester lining 9 -12 mm
05.	Inter Lining Vamp a. Material b. Thickness c. Colour	Ethyl Vinyl Acetate (EVA) sheet or non woven Polyester 0.75 - 0.85 mm White
06.	Socks a. Material b. Thickness c. Colour d. Hardness of socks	EVA sheet with white 90% cotton & 10% polyester terry fabric lining or EVA sheet with knitted polyester lining $4.0 \text{ mm} \pm 0.5$ mm White 35-40 IRHD
07.	Counter Stiffener a. Material b. Thickness	Thermoplastic 1.4 -1.5 mm
08.	Stitching Thread a. Material b. Count	Nylon white/ Polyester white 34/2 50/3
09.	Laces a. Material b. Length c. Diameter	Round or flat Polyester/Cotton with plastic tip of 13 mm 50" 3 - 4 mm for round
10.	Insole a. Material b. Thickness	Synthetic fibre layer on synthetic woven fabric or cotton drill cloth with rubber 2 - 3 mm
11.	Outer Sole a. Material	PU Midsole in White Colour Outer Sole in Grey Colour
	<b>PERFORMANCE TESTING</b>	
1.	Whole footwear a. Slip resistance on ceramic tile with sodium laurate	

## PN SPECIFICATION 01/2016

	sulphate solution. Heel Flat b. Flexing Resistance after 150,000 cycles c. Water resistance	$\geq 0.28$ $\geq 0.32$ No cracks observed on upper and sole  The total wetted area inside the footwear shall not be greater than 3 cm <sup>2</sup> when tested as per ISO 20344:2011 5.15.1
2.	Upper  a. pH value b. Chromium VI content c. Tear Strength d. Tensile Strength	Not less than 3.2 Not exceeding 3.0 mg/kg 120 N (min) BS EN ISO 20344:2011, as per 6.3 > 15 N/mm BS EN ISO 20344:2011, as per 6.4.1
3.	Vamp and Quarter Lining  a. pH value b. Tensile Strength (along) c. Tensile Strength (across)	Not less than 3.2 130 N 75 N
4.	Insole and In sock  a. pH value	Not less than 3.2
5.	Sole  a. Upper/outsole Bond Strength i. At Heel ii. At Toe  b. Hardness of midsole and outer sole i. at Heel ii. at Toe  c. Resistance to hot contact	35 kg minimum 25 kg minimum  55-65 IRHD 55-65 IRHD  BS EN ISO 20345:2011, clause 6.4.1
6.	Laces  Tensile Strength	500 N
7.	Identification Label a. Material b. Type	Polyester Woven

**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.
5. **Certified Sample.** This is replica of the sealed pattern certified to be correct by the inspector and may be issued to the inspecting officer and the supplier for guidance. There is no limit to the certified samples. CINS is requested to keep at least 3 in number samples from the first supply/ manufactured stock against this specification.
6. **Nubuck:** Nubuck is a type of natural leather with buffed grain.
7. **Ethyl Vinyl Acetate (EVA) Soft:** Is extended cured sheet of EVA (Ethyl Vinyl Acetate) compound.

**GUIDELINES FOR INSPECTION – GENERAL DEFECTS**

<b>Defect</b>	<b>Description</b>	<b>Major</b>	<b>Minor</b>
Pairing	Not properly paired i.e. right and left not of the same size and fitting	X	
	Wide variation in appearance of colour	X	
Colour cleanliness and finish	Not specified colour	X	
	Colour not uniform, spots and stains clearly noticeable at a distance of 3' (914mm)	X	
	Sole and heel edges not properly finished	X	
Design, pattern size	Not as specified	X	
	Incorrectly lasted upper	X	
Material	Any components or items not fabricated from the specified materials	X	
Upper leather	Leather not chrome full grain Cow or Buff Leather deeply snuffed i.e. fibre structure damaged	X	
	One or more of the following imperfections: Grub or tick marks opened or badly healed scratches, flay cut, brands, bony, loose, wrinkles or other inferior leather	X	
	Wrinkles not seriously affecting appearance or serviceability	X	
	Stretchy vamp	X	
	Stiff tongue	X	
	Variation in substance of component outside the specified limit	X	
	Substance more than maximum specified	X	
	Flesh side with rough fiber	X	
	Skiving not done or excessively done	X	
	Damage to upper compounds	X	
	Any Component or assembly misplaced. Operation committed or not properly performed seriously affecting serviceability or appearance	X	
	Any component, assembly misplaced, or operation committed or not properly performed not seriously affecting serviceability or appearance	X	
Construction and workmanship	Components poorly positioned	X	
	Excessive over or under roughness	X	
	Bonding or adhesiveness found poor	X	
	Untidy bonding	X	

## PN SPECIFICATION 01/2016

Sole	Poor sole adhesion White/Grey colour of the sole not uniform throughout and surface has cavity, streaks flashes and superfluous material	X	
	Molded surface has detrimental imperfections of mixing of sole colour and show sign of deformation	X	
Laces & stitching	Any open seam	X	
	Stitching omitted where required	X	
	Loose tension resulting in puckering or damaging the leather	X	
	Stitching incorrectly finished off	X	
	Inside of the shoe jogger has ridges and gathering of fabric or improper pasting	X	
Counters	Number of stitches $\pm 1$ than specified	X	
	Soft counter (Stiffeners)	X	
Toe Back seam	Toe soft on top and sides Ridges formed on the inside affecting comfort of wearer	X	
		X	
Inner sole	Insoles not properly feathered, not likely to affect comfort	X	
Marking	Missing incomplete, incorrect, and illegible	X	
Laces	Missing	X	
Packing	The packing not as per specification	X	
Special Instructions	Special instructions not provided	X	

PN SPECIFICATION 01/2016

ANNEX F TO  
PN SPECIFICATION NO 01/2016  
PROMULGATION DATE 11 Feb 2016

**FEED BACK FORM**

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

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

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

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

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

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

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

Name Stamp

**COUNTERSIGNED**

Name Stamp