

DCV/PROV/SHOE PU COATED SPLIT
LEATHER WHITE UNIFORM/ 12 /2011


AMENDMENT NO.2
(THREE PAGES)

TO

IHQ OF MOD(NAVY)/DCV SPECIFICATION ON
SHOES PU COATED SPLIT LEATHER WHITE UNIFORM
CAT NO. CNCMT-PSF0141-148

ISSUE DATE: 12 FEB 2013

DIRECTORATE OF CLOTHING AND VICTUALLING
D-II WING, SENA BHAWAN
INTEGRATED HEADQUARTERS
MINISTRY OF DEFENCE (NAVY)
NEW DELHI – 110 011


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नई दिल्ली/New Delhi-110011

CONTENT OF AMENDMENT NO.2

1. For Existing Content as per Indicated Para No.

Para 2(b). "As per existing"

Para 4. "As per existing"

Para 5(a). Upper : Chrome tanned Korean Split White Leather (Buffalo) PU Coated Matte Finish. *The upper should have been sprayed with White Pigment having adequate UV stabilizers.* The requirements are as indicated at Appendix – 'A' to this Specifications.

Para 5(b). "As per existing"

Para 5(f). "As per existing"

Para 11(a). "As per existing"

Para 13(e). "As per existing"

Appendix B : Sl. 3 – Full Insock "As per existing"

Replace With As Follows:-

Para 2(b). The shoes described in this specification are made from Chrome tanned Korean Split leather white colour upper, lined with drum dyed lining leather to absorb perspiration. The shoes are to be manufactured with cleated Soles with anti slip design by stuck on Process.

Para 4. Standard Pattern. The standard pattern of shoes shall be derby type with collar made from leather upper and with stuck on sole. The standard pattern held in the custody of PDCV shall constitute the standard as regards to any particulars or properties not noted/defined in this specification. An indicative image of the shoes is placed at Appendix "A" (Collar has to be included).

Para 5(a). Upper : Chrome tanned Korean Split White Leather (Buffalo) PU Coated Matte Finish. *The upper should have been sprayed with White Pigment having adequate UV*

stabilizers. The requirements are as indicated at Appendix - 'A' to this Specifications. The Whiteness of the leather upper is to be guided as per following whiteness index with only bluish tinge (negative b* on CIE LAB):-

Para 12. SI.1.(In addition to the existing Chemical Tests)

Material	Test	Quality Norm	Test Method
Upper Leather	Whiteness Index	L= 85.51 C= 1.37 H= 301.57 (Tolerance +/- 5%)	CIE LCH (D65 & 10°)
	Whiteness Retention	4-5	IS 2454:1985

Para 5(b). Lining: *All lining has to be drum dyed leather lining in beige colour. Colour fastness of the same has to be of 4 and above.*

Para 5(f) Sole : *Light Weight TPR Sole in Chocolate Brown colour as per sample held with AHSP (Requirements as per IS:15298 part IV). Design of Sole bottom can be different, however, the look, feel and finish has to be as per the sample held with AHSP. The decision of AHSP with regards to the finish of the TRP Sole, including side walls, will be final and will override the functional performance as per applicable tests.*

Para 11(a) Pre moulding of toe and counter (thermoplastics) shall be done before lasting. Moulded insole of cellulose board of good quality would be used in accordance with Appendix B and as per IS:15298. During lasting process, it has to be ensured that there are no wrinkles, piping, creases or any other kind of deformities in the leather upper.

Para 12.

S.No	Material	Test	Quality Norm	Test Method
3	Light Weight TPR Sole	Density	1.00 gm/cc ± 0.02	SATRA TM 134
		Phthaltes	SG Criteria : 09-96	EN 14372
		Hardness	Shore A 60 ± 5	SATRA TM 205
		Bennwart Flexing Test	Max. 4 mm Cut Growth by 30,000 Cycles	SATRA TM 161
		Sole Abrasion	Max 300 MM ³	SATRA TM 174
		Tensile Strength	Min 40 Kg/Cm ²	SATRA TM 137
		Tear Strength	Min 6.5 Kg/cm ± 0.5 Kg/C.m	SATRA TM 218

17-3A

DCV/PROV/SHOE PU COATED SPLIT
LEATHER WHITE UNIFORM/ 12 /2011

AMENDMENT NO.1(Rev)
(TWO PAGES)

TO

IHQ OF MOD(NAVY)/DCV SPECIFICATION ON
SHOES PU COATED SPLIT LEATHER WHITE UNIFORM
CAT NO. CNCMT-PSF0141-148

ISSUE DATE: 29 NOV 2011

DIRECTORATE OF CLOTHING AND VICTUALLING
D-II WING, SENA BHAWAN
INTEGRATED HEADQUARTERS
MINISTRY OF DEFENCE (NAVY)
NEW DELHI - 110 011

के मोहन
K Mohan
शुद्ध/ Principal Director
संयुक्त सशस्त्र बल (नौसेना)
Principal HQ of MoD (Navy)

CONTENT OF AMENDMENT NO.1(Rev)

1. For Existing Content as per Indicated Para No.

Para 5(a). Upper: Chrome tanned Korean Split White Leather (Buffalo) PU Coated Matte Finish. The requirements are as indicated at Appendix – 'A' to this Specifications

Para 5(c) Thread: Nylon Thread 3 Ply having min. Breaking strength of 3.5 kg.

Para 5(f) Sole : Light Rubber Sole (Requirements as per IS:15293 part IV).

Replace With As Follows:-

Para 5(a). Upper: Chrome tanned Korean Split White Leather (Buffalo) PU Coated Matte Finish. *The upper should have been sprayed with White Pigment having adequate UV stabilizers.* The requirements are as indicated at Appendix – 'A' to this Specifications.

Para 5(c) Thread: Nylon Thread *bonded* 3 Ply having min. Breaking strength of 3.5 kg.

Para 5(f) Sole : Light Rubber Sole *in Chocolate Brown colour as per sample held with AHSP* (Requirements as per IS:15293 part IV). *Design of Sole bottom would be as per standard pattern held with AHSP*

2. Following contents to be completely Deleted

Para 2(b). – Second Line – Delete the word "Combination" from the sentence.

Para 10(c). – Second Line - Delete complete sentence "The lasted upper should be sprayed with white pigment with adequate UV Stabilisers to protect even the stitched portion and then lacquered to maintain the white colour for longer period."

Para 10(d). – Second Line – Delete complete sentence "The lasted upper should be finished with white pigment with sufficient UV Stabilisers and then lacquered. The sole should be attached after pigment spraying and lacquering to avoid white marks on the black colour sole."

Para 13(f). Complete paragraph to be Deleted.

3. Following Items to be Added to the Existing Content at Indicated Para
Para 12. Add following Tests against material as indicated below:-

S.No.	Material	Test	Quality Norm	Test Method
1	Upper Leather	Whiteness Index	L= 85.51 C= 1.37 H= 301.57 (Tolerance +/- 5%)	CIE LCH (D65 & 10°)
		Whiteness Retention	4-5	IS 2454:1985

Director
 (Ministry of Textiles)
 New Delhi

DCV/PROV/SHOE PU COATED SPLIT
LEATHER WHITE UNIFORM/ 12 /2011

AMENDMENT NO.1
(ONE PAGE)

TO

IHQ OF MOD(NAVY)/DCV SPECIFICATION ON
SHOES PU COATED SPLIT LEATHER WHITE UNIFORM
CAT NO. CNCMT-PSF0141-148

ISSUE DATE: 28 OCT 2011

DIRECTORATE OF CLOTHING AND VICTUALLING
D-II WING, SENA BHAWAN
INTEGRATED HEADQUARTERS
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(जी. जॉय दिवली)
(J. Joy Divilly)
कमाण्डर / Commander
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H. Q. of MOD (Navy)
नई दिल्ली / New Delhi-110011

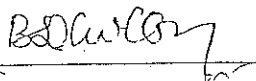
<u>SNO</u>	<u>DATE</u>	<u>AMENDMENT NO</u>	<u>DETAILS OF AMENDMENT</u>	<u>AMENDMENT CARRIED OUT BY AND DATE</u>
1	28 Oct 11	1	Change of Material for use as Leather Upper	DDCV(S&D) - 28 Oct 11

B.S. Dhillon

(बी एस धिल्लो)
 (B S Dhillon)
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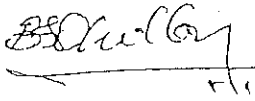
CONTENT OF AMENDMENT

For

Para 5(a). Upper: Chrome tanned Korean Split White Leather/Full Grain/CG(Buff) of white Colour. The requirements are PU Coated Finish(Given in Appendix -A)

Read

Para 5(a). Upper: Chrome tanned Korean Split White Leather (Buffalo) PU Coated Matte Finish. The requirements are as indicated at Appendix - 'A' to this Specifications.



28 Oct 11

DCV/PROV/SHOE PU COATED SPLIT
LEATHER WHITE UNIFORM/ 12 /2011

INTEGRATED HEADQUARTERS OF MINISTRY OF DEFENCE (NAVY)
DIRECTORATE OF CLOTHING & VICTUALLING
INDIAN NAVY SPECIFICATION

ON

SHOES PU COATED SPLIT LEATHER WHITE UNIFORM

CAT NO. CNCMT-PSF0141-148

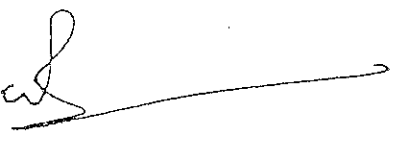
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DIRECTORATE OF CLOTHING AND VICTUALLING
D-II WING, SENA BHAWAN
INTEGRATED HEADQUARTERS
MINISTRY OF DEFENCE (NAVY)
NEW DELHI – 110 011

REPORT OF AMENDMENT

REPORT OF AMENDMENT

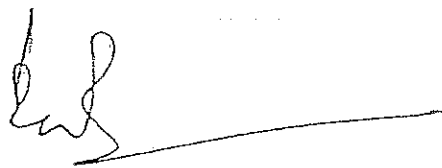
<u>S.NO</u>	<u>DATE</u>	<u>AMENDMENT NO</u>	<u>DETAILS OF AMENDMENT</u>	<u>AMENDMENT CARRIED OUT BY AND DATE</u>



श्री के मोहन
 P. K. Mohan
 निदेशक/ Principal Director
 एकीकृत नौसेना मुख्यालय (निदेशक)
 (Integrated HQ of MoD (Navy))

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IV Integrated IQ of MoD (Navy)
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SPECIFICATION FOR SHOES PU COATED SPLIT LEATHER WHITE UNIFORM
SAILORS - PETTY OFFICER AND ABOVE

1. Foreword. This specification has been prepared by the Directorate of Clothing and Victualling on the authority of the Controller of Logistics, and is for use by the Indian Navy.

(a) This specification has been prepared on the basis of commercially available similar products available with reputed Indian manufacturers and exporters as recommended by FDDI Noida.

(b) This specification would be used for manufacture, quality assurance and procurement of the item.

(c) Authority Holding Sealed Particulars (AHSP) for the item covered in this specification is Principal Director of Clothing & Victualling (PDCV), Sena Bhawan, New Delhi, for the Indian Navy.

(d) This specification holds good only for the supply order for which it is issued.

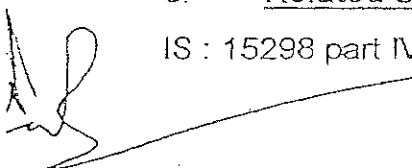
(e) The PDCV reserves the right to amend or modify this specification as and when necessary.

2. Scope.

(a) This specification covers the requirement of Shoes PU Coated Split Leather stuck on light rubber sole of density 1.1 ± 0.1 gm/cc in sizes 5 to 12 (English System) or in sizes 39 to 46 (French system). These are meant for use by sailors of the rank of petty officer and above as part of Uniform.

(b) The shoes described in this specification are made from Chrome tanned Korean Split leather white colour upper, lined with combination tanned split lining leather to absorb perspiration. The shoes are manufactured with cleated Soles with anti slip design by stuck on Process.

3. Related Specifications. References made in this specification to IS : 15298 part IV.



4. Standard Pattern. The standard pattern of shoes shall be derby type with leather upper, stuck on sole. The standard pattern held in the custody of PDCV shall constitute the standard as regards to any particulars or properties not noted/defined in this specification.

5. Materials. The shoes shall be manufactured from the following materials:-

- (a) Upper : Chrome tanned Korean Split White Leather /Full grain/CG (Buff) of white colour. The requirements are PU Coated finish (given in Appendix – A).
- (b) Lining: Drum dyed Leather lining.
- (c) Thread: Nylon thread 3 ply having min. breaking strength of 3.5 Kg.
- (d) Eyelets: Brass eyelets with washer stud type enameled white .
- (e) Laces : Polyester lace Min. 70cm (min.) long for shoes.
- (f) Sole : Light Rubber sole (Requirements as per IS:15298 part IV)

6. Manufacture. The shoes shall be made by stuck on process using standard last having G/H-fitting.

7. Design. The shoes shall be of Derby type with stuck on Light Rubber Sole. A full tongue shall be completely lined.

8. Shape of Components. The pattern of the quarters, vamp, vamp lining and toe puff / counter shall be so designed that these do not form excessive pleats, at 'Toe' and 'Counter' regions during lasting.

9. Cutting of Components. The various upper and bottom components of leather shall cut from the material and to the thickness as prescribed in Appendix 'A'. All components shall be free from serious grain damage, flay cuts and other defects. Care shall be taken that all parts, forming the upper are cut so that the lines of tightness of the leather is in the direction from heel to toe. Further the vamp component should be cut from the butt portion instead of belly and shoulders.

Upper Closing.

- (a) The upper shall be attached/closed on lock stitch machine using nylon thread for quarters joint with vamp and for remaining position equivalent spun polyester thread can also be used for stitching in place of nylon thread. The number of stitches shall be 30 to 40 per decimeter. Care shall be taken to maintain the space and uniform tension of the stitching at all places.
- (b) During closing 5 mm PU Foam should be inserted between upper and lining components.
- (c) Two rows of stitching shall be used at the quarter and vamp and two rows at the sides. The lasted upper should be sprayed with white pigment with adequate UV stabilizers to protect even the stitched portion and then lacquered to maintain the white colour for longer period.
- (d) All loose ends of the upper stitching shall be secured properly. The lasted upper should be finished with white pigment with sufficient UV stabilizers and then lacquered. The sole should be attached after pigment spraying and lacquering to avoid white marks on the black colour sole.
- (e) Four eyelets shall be fitted in each quarter facing area. The eyelet shall be clinched with washer, without distortion. The top eyelet shall be positioned at a distance of min. of 10mm from the top line of the quarter and rest shall be equally spaced.

11. Lasting.

- (a) Pre moulding of toe and counter (thermoplastics) shall be done before lasting. Moulded upper shall be stitched by stroble cloth all around ensuring that there is no wrinkle in the stitching area. Case should be taken to match stroble stitching with upper notches so that upper is straight.
- (b) The upper shall be properly laced upto the fourth eyelet before lasting so that the quarters remain in proper alignment on the instep.
- (c) In the lasting operation, the upper and the insole shall not be wetted or damped too much to show any water spotting or to make the grain pattern of upper leather disappear.

(d) The shoe shall remain on the last long enough to ensure proper shape of the upper and adequate setting of the shoe.

(e) The lasted margin shall be buffed & cleaned by wire brush to create nap for proper bonding.

(f) Good quality PU adhesive shall be applied on sole after halogenation.

(g) Two coats of adhesive are applied on lasted upper on the lasting margin.

(h) The adhesive to be adequately dried.

(i) Sole is attached with adequate and uniform pressure after proper heat activation.

(k) The complete shoe shall be cooled for sufficient time before delasting.

(l) The shoes should be paired and finished properly before packing.

12. Requirement. The material used in the manufacture of shoes shall meet the requirements of the following in addition to IS:15298 part IV specifications:—

S.No	Material	Test	Quality Norm	Test Method
1	Upper Leather	Azo Free dyes	SG Criteria	ISO 17234, ISO 14362
		Chlorinated Phenols (PCP/TCP/TeCP/OPP)	SG Criteria	ISO 17070
		Cr-6	SG Criteria	ISO 17075
		Heavy Metals extractable	SG Criteria	ISO 105 EO4/1CP
		Formaldehyde	SG Criteria	ISO 17226
2	Polyester, Laces	Azo Free Dyes	SG Criteria	ISO 17234 ISO 14362
		Chlorinated Phenols (PCP/TCP/TeCP/OPP)	SG Criteria	ISO 17070
		Dispersed dyes allergenic & carcinogenic	SG Criteria	DIN 54231
		Formaldehyde	SG Criteria	ISO 17226
3	Light Rubber Sole	Phthalate	SG Criteria	Solvent Extraction/GCMS
		Organotins (TBT/DBT/MBT)	SG Criteria	ISO 17353
		Lead	SG Criteria	EN 1122
		Cadmium	SG Criteria	EN 1122
4.	Eyelets	Nickel free	SG Criteria	DIN EN 12471

Note:- The upper leather has to have a rated tear Strength of 120N when the tests conducted as per IS 15293

The lining should be leather as per specification even at vamp portion

13. Mass.

(a) The mass of one pair of finished shoes of size 8 shall be 775 ± 25 g with an increase or decrease of 50 g for each bigger or smaller size respectively.

(b) Dimensions of Shoe will be as under:-

The back height for size 8 will be 65 ± 2 mm. These dimensions will increase and decrease by 2 mm per size.

(c) The thickness of sole in the finished condition shall be as under :

S.No	Description	Thickness (mm)
1.	At forepart	7 (min)
2.	At waist	6 (min)
3.	At heel	20 (min)
4.	Depth of cleat at sole & heel	1.5 (min)

(d) The shoe shall be subjected to adhesion test. The testing shall be made at least 24 hours, after allowing the Shoe to cool down at room temperature. For accurate results it is recommended to test the sample after 24 hours.

(e) Upper/Outsole bond strength – The bond strength shall not be less than 4 N/mm unless there is tearing of the material.

(f) The bond strength between the outer or cleat layer and the adjacent layer shall be not less than 4 N/mm unless there is a tearing of the sole, in which case the bond strength shall be not less than 3 N/mm.

14. Stamping. The socks of the Shoe shall be legibly stamped with the manufacturers name or his recognized trade-mark, size and month & year of supply.

15 UNIT PACK

(a) Each pair of shoes shall be placed heel and toe alternatively in upright position wrapped with tissue paper. A label with following marking shall be placed outside the Box which shall be clearly readable: -

- (i) Nomenclature
- (ii) Manufacturer's name or trade mark
- (iii) Month and year of manufacture
- (iv) Size/fitting

(b) Before dispatch, each package shall be legibly marked by stencil using indelible ink/paint showing the following details.

- (i) Quantity packed in the package
- (ii) Lot and serial No of the package
- (iii) Month and year of manufacturer
- (iv) Gross mass of the package in kg
- (v) Name and address of the consignee
- (vi) Name and recognized trade mark of the Manufacturer
- (vii) Inspection Note No and Date
- (viii) Supply order Number and Date

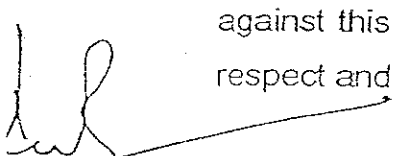
16. Criteria of Conformity

(a) The shoes shall be delivered in new, dry and clean condition.

(b) The lot shall be considered to be in conformity with the required standard, if the samples drawn for testing and are found satisfactory (as per IS:15298 part IV) and the lot is also found otherwise satisfactory in regard to visual parameters.

17. Warranty.

(a) Except as otherwise provided in the invitation to the tender, contractor/supplier shall declare that the fabric supplied to the purchaser against this specification is of best quality and workmanship and new in all respect and is strictly in accordance with the laid down specifications.



(b) The contractor/supplier shall guarantee that the Shoes would continue to conform to the description and quality aforesaid for a period of twelve months from the date of delivery of the fabric to the purchaser or fifteen months from the date of despatch from the supplier's premises whichever is earlier and not withstanding the fact that the purchaser (Inspector) may have inspected and /or approved the consignments. If during the aforesaid period of 12/15 months the said consignment is discovered not conforming to the description and quality aforesaid or not giving satisfactory performance or have deteriorated and the decision of the purchaser in the behalf shall be final and binding on the contractor/supplier to rectify/replace by acceptable goods or such portion or portions thereof as is found to be defective by the purchaser within a reasonable period not exceeding three months or as decided by the purchaser. In such an event the warranty period shall apply to the shoes replaced from the date of replacement or otherwise the contractor/supplier shall pay the purchaser, such compensation as determined by the purchaser as may arise by reason of breach of the warranty contained herein.

18. Suggestion for Improvement. Any suggestion for improvement of this document may be forwarded to:-

The Principal Director of Clothing & Victualling
Integrated Headquarters
Ministry of Defence (Navy)
Sena Bhawan, DHQ Post,
New Delhi - 110 011



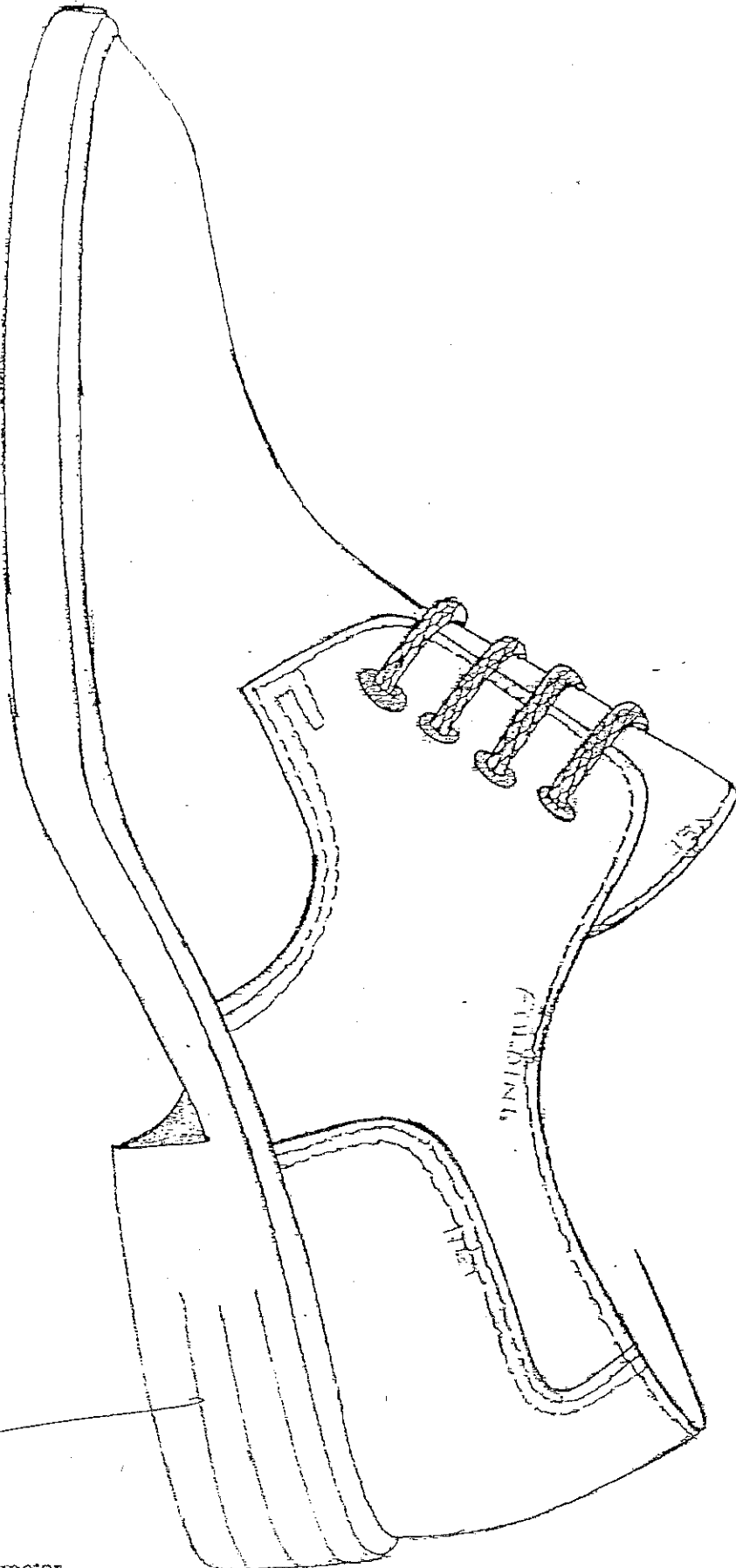
APPENDIX 'A'


MATERIAL SPECIFICATION
FOR SHOES PU COATED SPLIT LEATHER WHITE UNIFORM

S.No	Components	Material	Thickness (mm)	
			Min	Max
1.	Quarter	Chrome tanned 3% min Korean Split Leather (White) with PU coating of thickness 0.3 - 0.4mm	1.3	1.5
2.	Vamp	- do -	1.3	1.5
3.	Full in sock	Buff Split	0.7	1.0
4.	Lining	Drum dyed leather lining	0.7	0.9
6.	Insole Moulded	Cellulose board of good quality	1.5	2.0
7.	Counter Stiffener	Thermoplastic material	1.4	1.6
8.	Toe puff	-do-	0.80	1.0



कैप्टन पी के मोहन
Capt P K Mchen
प्रधान निदेशक/ Principal Director
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