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No. Tex/1101/D/TEX-1/CPSG
GOVERNMENT OF INDIA MINISTRY OF
DEFENCE
DEFENCE RESEARCH & DEVELOPMENT
ORGANISATION

DEFENCE MATERIALS & STORES RESEARCH
& DEVELOPMENT ESTABLISHMENT
DMSRDE P. O. G. T. ROAD KANPUR-208013

All correspondence to be
addressed to the Director
and this Establishment
reference be quoted
invariably while
replying



DATED : February 8, 2008

To,

The Directorate General
CRPF (Proc Cell, Prov. Directorate)
Block No.1, CGO Complex
Lodhi Road
NEW DELHI - 110003

SUB:- SPECIFICATION FOR A.K.47 RIFLE SLING(NYLON) AND
CARBINE SLING(NYLON)

REF:- Our letter No. F - 1/LED-W Tex dt 08 Jan 2008.

Specification of metal components of subject store has been forwarded to you vide our letter cited above. Further, on going through the specification of subject store forwarded to you vide our letter No. D/1315/Tex-1 dt. 01.Sep.2004, it was observed that some amendment in that specification was required. So the necessary amendments have been made and the fresh copy of the same(only Textile component) is forwarded to you for further necessary action at your end.

Encls.: Copy of Specification (Ten Pages)

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(A.K.YADAV)
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FOR DIRECTOR

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SPECIFICATION
OF
NYLON SLING
FOR
AK-47 RIFLE
&
CARBINE

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(21) (3)

GOVERNMENT OF INDIA
(MINISTRY OF DEFENCE)



Provisional Specification
No. DMSRDE/T&GS/2004/01/CPSC

SPECIFICATION
FOR
NYLON SLING
FOR
AK-47 RIFLE & CARBINE

CAT NO. -----

1. THIS SPECIFICATION CONSISTS OF TEN PAGES
2. THIS SPECIFICATION IS INTENDED TO GUIDE PURCHASE INSPECTION AND MANUFACTURE OF WEB SLINGS, FOR AK-47 RIFLE AND CARBINE FOR CRPF REQUIREMENT.
3. THIS SPECIFICATION OR ANY DRAWING, PATTERN OR ANY OTHER INFORMATION ISSUED IN CONNECTION THEREWITH MAY ONLY BE USED FOR SPECIFIC ORDER PLACED BY A COMPETENT AUTHORITY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE EXPRESS WRITTEN SANCTION OF APPROPRIATE AUTHORITY.
4. ALL CLAUSES IN THIS SPECIFICATION SHALL BE COMPLIED WITH IN EVERY RESPECT IRRESPECTIVE OF SOURCE OF SUPPLY OF THE MATERIAL AND/OR COMPONENTS.
5. IN CASE OF ANY DISCREPANCY BETWEEN THIS SPECIFICATION AND ANY SAMPLE OR PATTERN, LOANED FOR ANY PURPOSE, THIS SPECIFICATION AND/OR OTHER CONNECTED SPECIFICATIONS OR DRAWINGS SHALL BE TAKEN AS CORRECT AT THE TIME OF FINALISATION OF A CONTRACT.
6. WHENEVER A REFERENCE TO ANY OTHER SPECIFICATION, DRAWING OCCURS IN THIS SPECIFICATION, IT SHALL BE TAKEN AS REFERENCE TO THE LATEST VERSION OF THAT SPECIFICATION/ DRAWING EXISTING AT THE TIME OF FINALISATION OF A CONTRACT.

ISSUED BY
THE DIRECTOR
DEFENCE MATERIALS & STORES
RESEARCH & DEVELOPMENT ESTABLISHMENT
DMSRDE POST OFFICE
KANBUR-208 012

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1. SCOPE

- 1.1 This specification covers the requirements of Nylon Webbing/Tapes used as a sling (Textile Component) used as a sling for AK-47 Rifle and Carbine.

2. RELATED SPECIFICATION AND AVAILABILITY.

- 2.1 Indian standard specifications are obtained on payment from the secretary (Administration), B.S. Manak Bhawan, 9 Bhadur Shah Zafer Marg, New Delhi or from their regional or branch offices.

3. SEALED SAMPLE

- 3.1 The sealed samples held in the custody of the AHSP shall constitute the standard of particulars not defined in this specification.

4. MATERIALS.

- 4.1 Multifilament nylon yarn having approximate tenacity and denier as per clause 6.1 with nominal twist shall be used in the manufacture of web and tapes so as to achieve the various requirements as stipulated in clause 6.

- 4.2 In place of metal components shown in attached plates No. 1, 2, 3 & 4 of this specification, refer specification No. DMSRDE/ES&S/(LED)/2007/229

5. MANUFACTURE, WORKMANSHIP AND FINISH.

- 5.1 The Web and Tapes shall be uniformly woven with firm selvages. the dyeing shall be uniform and shall withstand the dye fastness requirements as stipulated in clause 6.0. The shade of the webbing/tapes shall be as per the agreement between buyer and seller.

- 5.2 The webbing shall be woven uniformly and be free from weaving and other manufacturing defects. The selvages shall be firm and straight. The webbing shall also be free from size or other filling materials and shall not contain any ingredient that is liable to cause subsequent tendering.

- 5.3 It shall be free from objectionable flaws, like missing or broken ends and picks, floats, knots, dyeing defects. The web and Tapes shall be clear, free from objectionable matters, which may give a fictitious weight or cause tendering in subsequent stages.

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6. TESTS

6.1 Tape/Webbing of Sling

SL NO.	CHARACTERISTICS	REQUIREMENT FOR AK-47 RIFLE	REQUIREMENT FOR CARBINE	METHOD OF TESTS
1	Width(mm)	38+1	19+1	IS:1954
2	No. of ends in full Width	G-160 B-20 L-1	G-72 B-09 L-1	IS:1963
3	Picks per dm.	104	104	-
4	Tenacity of yarn Gpd. (WARP) (WEFT)	5.0 (min) 4.5 (min)	5.0 (min) 4.5 (min)	IS:1961
5	Mass per linear meter g	50 ± 5%	27 ± 5%	IS:1961
6	Denier of yarn (WARP) (WEFT)	G-1680 B-840 840X2	G-1680 B-840 840X2	IS:3442
7	Colour Fastness i) To Light	(Rating No.) 4 or Better	(Rating No.) 4 or Better	IS:2454
	ii) To Washing a) Change in Shade	4 or Better	4 or Better	IS:764
	b) Staining on Nylon	4 or Better	4 or Better	
	iii) Rubbing a) Dry	4 or Better	4 or Better	IS:766
	b) Wet	4 or Better	4 or Better	
	iv) Perspiration a) Change in Colour	4 or Better	4 or Better	IS:971
	b) Staining on Nylon	4 or Better	4 or Better	
8	pH Value	6.0-8.5	6.0-8.5	IS:1390
9	Weave	Plain(Basket)	Plain(Basket)	
10	Nature of fiber	Nylon	Nylon	

NOTE:

i) G-Ground end, B- Binding end, L-Locking end

ii) Slight alteration in the weave design / construction particulars is permissible with the prior approval of AHSP.

iii) BSF Locking thread of suitable denier shall be used.

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7. MARKING

7.1 Each Sling/Belt shall be suitably marked on its inner side with indelibly marking ink/paint showing the contractors name, trade mark, year of manufacture, with cat no. (if any) & nomenclature of the store.

8. PRE INSPECTION

8.1 Before tendering the store to the Govt. Inspector, the supplier will carry out thorough pre-inspection of each delivery to satisfy himself that the store fully conform to this specification.

9. PRELIMINARY VISUAL EXAMINATION OF LOT

9.1 Before drawing bulk supply sample for laboratory tests the lot shall be examined for visual defects.

9.2 The store when visually examined shall be free from weaving and processing flaws.

10. BULK INSPECTION/SAMPLING AND CRITERIA FOR CONFORMITY

10.1 The quantity of store offered against one 'dispatch note' shall constitute a lot

10.2 The number of web (Sling) to be selected at random for laboratory tests shall be in conformity with the table given below :-

Lot size/ No of Slings	<u>No. of samples to be selected for</u>	
	Non destructive test(Visual)	destructive test
Up to 10	5	2
11 to 30	10	2
31 to 50	15	3
51 to 100	20	4
101 to 500	30	5
501 to 1200	80	5
1201 to 3200	125	7
3200 to 10,000 & above	200	10

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- (45) (22)
- 10.3 All samples when tested for physical and chemical tests as per relevant specification shall conform to the stipulated standards
- 10.4 The conformity of a lot to the requirements of the standard shall be determined on the basis of tests carried out on the sample selected from the lot.
- 10.5 If, on examination, material from any portion of the consignment found not to be fully in accordance with this specification, the whole supply is liable to be rejected.

11. PACKING

11.1 Min 10 No. of the Sling/Belt shall be packed in PP Film of 0.05mm thickness, conforming to IS:2508 in neat and dry condition.

11.2 Before dispatch each pack shall be legibly marked with indelible marking ink/paint showing the following details :-

- i) Nomenclature and cat. No. of the store
- ii) Quantity packed
- iii) Lot and serial No.
- iv) Month and year of packing
- v) Name and trade mark of the manufacturer
- vi) Name and address of the consignee
- vii) Inspection Note No. and date
- viii) A/T No. and date

12. WARRANTY CLAUSE

12.1 The store supplied against an order shall be deemed to bear a warranty of the contractor against defective materials/workmanship and performance for a period of 6 months from the date of receipt of the stores at consignees depot. If during the period the stores supplied are found to be defective in any respect by the consignee, the same shall be replaced immediately by the contractor with serviceable stores without any charges or cost.

DATE: 07/2/08

STATION: KANPUR

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AK-47 RIFLE SLING

WEB ~~EDITION~~ THICK

2-PLATE
PLATE-1

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ARMA

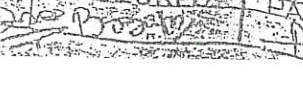
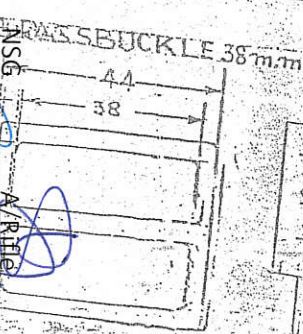
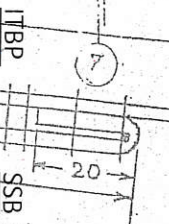
BR&D

PROTECTION

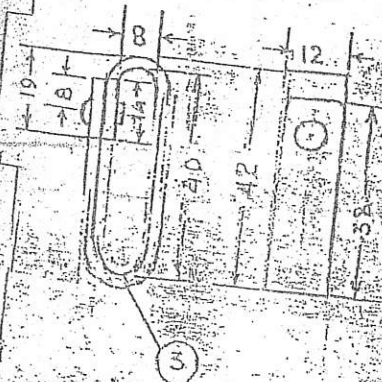
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PASSED

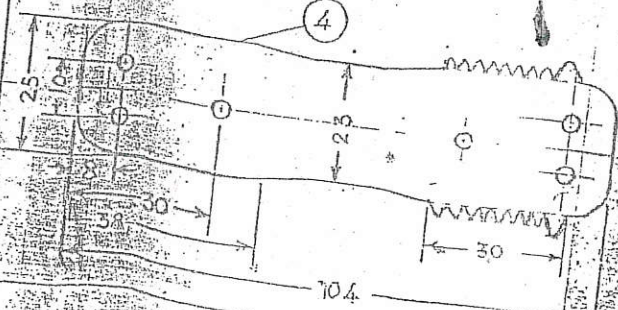
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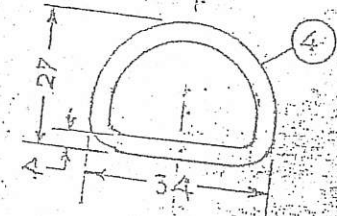
LEATHER LOOP



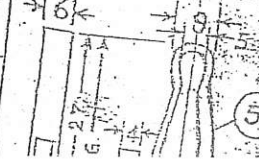
METAL STRIP



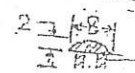
D-RING



DOG HOOK



RIVET



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AK-47 RIFLE SLING

ASSEMBLY

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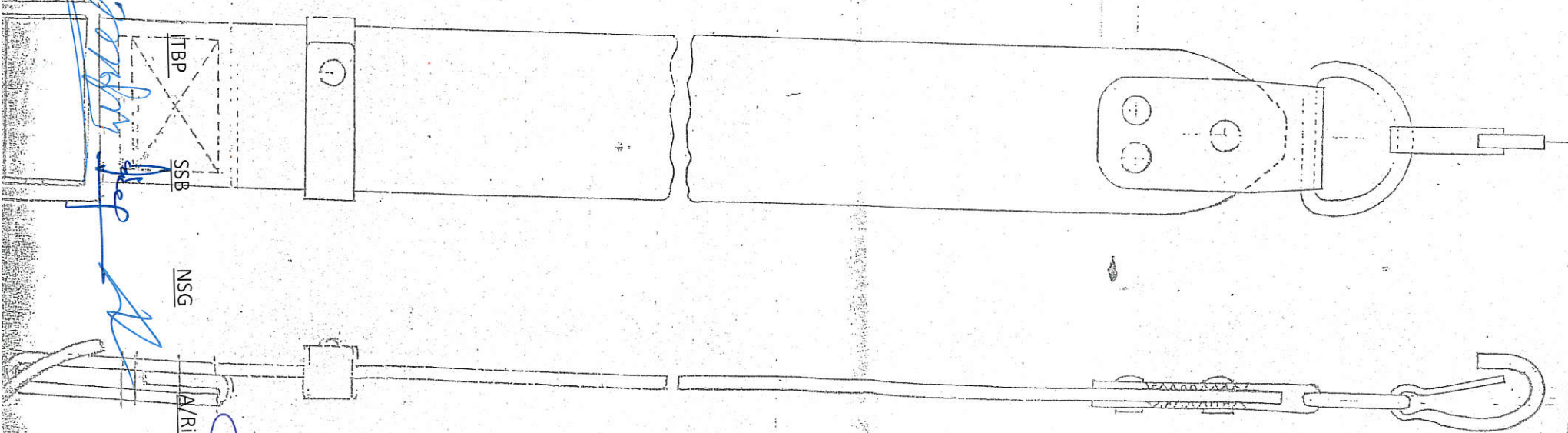
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SEE PROJECTION

DIMENSIONS IN M.M.

DRAWN

CHECKED

PASSED

APPROVED

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2

2-Pr

1

BSF

CISF

ITBF

SSB

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D - RING

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ALUMINUM BUCKLE-22 mm.

SECTION AA

METALSTRIP

NAIL HOOK

⑤

1-5-2



CAREMEETING ASSEMBLY

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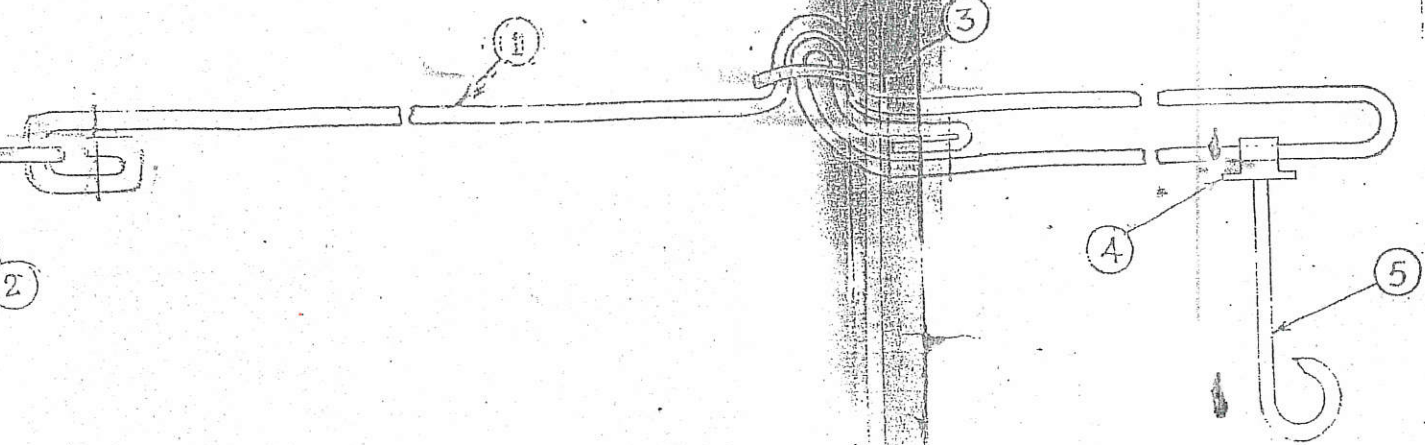
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A/Rifle

BRP&D



FIRST ANGLE PROJECTION		DIMENSIONS IN mm	
SCALE	DRAWN	CHECKED	PASSED
1/2	[Signature]	[Signature]	[Signature]
APPROVED		[Signature]	

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