GOVERNMENT OF INDIA (MINISTRY OF DEPENCE)

PROVISIONAL SPECIFICATION
NO. DMSRDE/T&GS/93/410(6)
DRAWING - 8 PLATEC ATTACHED

SPECIFIC TION FOR COMBINATION HARNESS

- 1. THIS SPECIFICATION CONSISTS OF FIVE PAGES.
- 2. THIS SPECIFICATION IS INTENDED TO GUIDE PURCHASE, INSPECTION AND MANUFACTURE OF COMBINATION HARNESS AGAINST DEFENCE REQUIREMENT.
- THIS SPECIFICATION OR ANY OTHER INFORMATION ISSUED IN CONFIDENCE
 THEREWITH SHALL ONLY BE USED FOR SPECIFIC ORDER PLACED BY A
 COMPETENT AUTHORITY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE
 WHAT SO EVER WITHOUT THE EXPRESS WRITTEN SANCTION OF
 APPROPRIATE AUTHORITY.
- ALL GEAUSES IN THIS SPECIFICATION SHALL BE COMPLIED WITHIN EVERY RESPECT IRRESPECTIVE OF THE SOURCE OF SUPPLY OF THE MATERIAL.
- 5. IN CASE OF ANY DISCREPANCY BETWEEN THIS SPECIFICATION AND SAMPLE LOANED FOR ANY PURPOSE, THIS SPECIFICATION ALONGWITH OTHER CONNECTED SPECIFICATION SHALL BE TAKEN AS CORRECT AT THE TIME OF FINALISATION OF A CONTRACT.
- 6. WHEREVER A REFERENCE TO ANY OTHER SPECIFICATION OCCURS IN THIS SPECIFICATION, IT SHALL BE TAKEN AS A REFERENCE TO THE LATEST VERSION OF THAT SPECIFICATION EXISTING AT THE TIME OF FINALISATION OF A CONTRACT.

ISSUED BY
THE DIRECTOR
DEFENCE MATERIALS AND STORES
RESEARCH & DEVELOPMENT LSTABUSHMENT
DMSRDE PO
G.T. ROAD, KANPUR - 208013

Price-Rs. 100/-

J. J. J.

1. SCOPE

This specification covers the requirement of Combination Harness intended to be used an aid for repelling down steep slopes in mountainous terrains. It consists of two parts are Chest Harness and Sit Harness.

2. MATERIALS

2.1 The Combination Harness shall be manufactured from the material mentioned below:-

Sl	Material	Particulars
No. 1.	Webbing Nylon Thick 48 mm wide Blue	Prov. Speen no. DMSRDE/T&GS/93/411(b)
2.	Webbing Nylon Thin 38 mm wide Blue	Prov. Specn no. DMSRDE/T&GS/93/411(b)
₹3. ✓	Webbing Nylon Thin 25 mm wide Blue	Prov. Specn no. DMSRDE/T&GS/93/411(b)
4. (Buckle Steel 48 mm Black Epoxy Painted	As per drawing plate attached
5.	Buckle Steel 38 mm Black Epoxy Painted	As per drawing plate attached
6.	Buckle Plastic Black 48 mm	As per drawing plate attached
27.	Buckle Plastic Black 38 mm	As per drawing plate attached
8.	Buckle Plastic Quick Release 40 mm Black	Prov. Speen No. DMSRDE/T&GS/93/406
charged 9.	Nylon Sewing Thread (for Acrospace Purpose (Shade-3%, shade no: CI Acid – Blue 247))	IS:4229
, 10.	Nylon Cord Braided Blue 6.0 mm dia	Annexure 'A'

B. DIMENSIONS

3.1 The Combination Harness shall conform to the dimensions as laid down in the attaches drawing. A general tolerance of ±5% is permissible.

4.1 The Combination Harness shall be manufactured as per drawing.

5. WORKMANSHIP

In appearance, shape, workmanship and finish and in all other respects to the drawing/specn, the harness shall conform to sealed pattern be did in the custody of controlling authority.

6. STITCHING

The Combination Harness shall be machine stitched with lock statches regulated at 35 to 40 stitches per decimeter with even tension. The ends of the threads shall be securely fastened off and loose threads shall be trimmed off. To prevent unravelling, thread ends/breaks shall be back stitched (overlapped) for not less than 25 mm.

7. MARKING

2.1 Each Combination Harness shall be provided with a white cloth satisfiable 6 cm x 4 cm securely stitched on each of chest, and sit Harness at the space and position shows in the attached drawing. The label shall be printed with the manufacturer's name, initial or recognized trade mark together with the year of manufacture, nomenclature and cat no of the store using suitable ink duly approved by the inspector.

8. PACKING

- 8.1 The Combination Harness after pairing both parts, i.e. Chest and Sit Harness shall be packed as per details given below:-
- 8.2 Each Combination Harness complete with both parts shall be tied with twine jute 3 ply at 3 places and placed in a suitable size bag made out of 25 micron thick high molecular weight, high density polyethylene film conforming to speer. No. 18: 10889 to form a unit pack.
- Fifty such unit packs shall then be placed one over the other, to make a complete pack in a 600x500x 480mm size rectangular fibre board box moisture resistant (Triple wall) 7 ply Type 'B', conforming to provisional specification no. DMSRDE/SPP/95/429(b). Closing and sealing of boxes shall be done as per satisfaction of the inspector.
- 8.4 Before despatch each package shall be legibly and indelibly marked to indicate the following details
 - a) Nomenclature and cat no. of the store
 - b) Quantity packed in numbers
 - c) Lot and Serial No.
 - d) Month and year of packing

- e) Name and trade mark of the manufacturer
- f) Gross weight of the package
- g) A/T No. and Date
- h) Inspection note no. and date
- vi) Name and address of the consignee.

The box shall finally be strapped by using HDPE straps two each along length and width side at equi-distance.

9. PRE-INSPECTION

9.1 Before tendering the store to the Government inspector the supplier will carry out a thorough check/pre-inspection of each delivery to satisfy himself that the stores fully conform to this specification. In case the pre-inspection is unsatisfactory the store may be rejected outright by inspector.

10. SAMPLING AND CRITERIA FOR CONFORMITY:-

- 10.1 The quantity of Combination Harness (each comprising of Chest Harness and Sit Harness) offered against one despatch note shall constitute a lot.
- 10.2 The conformity of a lot to the requirement of the standard shall be determined on the basis of tests/examination carried out on Combination Harness selected from the lot
- 10.3 The no. of Combination Harness to be selected at random for examination shall be in conformity with the table given below.

Lot size (Nos)			Sample size (Nos)			
/	1-50			2		
	51-100			4		
	101-200			6		
	201-300			8		
	301-500			10		
	501- and above			12	5.00	

- 10.4 For assuring himself about the quality of the basic materials the inspecting officer will exercise his option to draw stage control samples of different basic materials for laboratory testing.
- The Inspecting Officer/AHSP may also take out samples of the basic materials from the made up harness to ensure that the webbing/components used in the supplies conform to the stipulated standard. Frequency of drawing such samples will also be at the discretion of the Inspector/AHSP.

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11. INSPECTION

- If on examination material from any portion of a consignment is found not to be fully in accordance with this specification, the whole consignment is liable to be rejected.
- If on examination of 20% of any delivery, 20% of those examined are found not to conform to this specification in any respect the whole consignment may be rejected. However when delivery lots are exceeding 5000 Nos. the decision may be based on examination of 10% only i.e. on examination of 10% of the delivery 20% are found not conform to this specin the whole delivery may be rejected.
- 11.3 The stores not fully in accordance with this specification shall be rejected.

12. WARRANTY CLAUSE

12.1 The store supplied against the order shall be deemed to bear a warranty of the contractor against defective materials/workmanship and performance for a period of 12 months from the date of receipt of the stores at consignees depot. If during this period the stores supplied are found by the consignee to be so defective, the same shall be replaced immediately with serviceable stores without any charges or cost.

Defence Materials & Stores
Research & Development Establishment
G.T. Road, KANPUR

Station: KANPUR

Dated: 67.04,2003



NYLON COAD BRAIDED BLUE

to prov. Specn. No. DMSRDE/T&GS/93/4160

1.	Diameter (mm)		6.0			· · · · · · · · · · · · · · · · · · ·		ax Mag
<u>_2</u> .	Weight/m 'g'	Been	25±1	×				
3.	No of Sheath end		32 each	of 3 folds	che	Je .		
A .	No. of core end	• ye sp	7 710.04	folds in es	ach core	end-	3 fold	ls ench
<u></u>	No. of plaites/cm		8				MO U	* :
6.	Count of yarn 'Tex'		Sheath	- 960 · · · - 1240 (r	esultant of	3 folds	cach 5	i ply)
<i>J</i> .	Breaking strength 'Kg	gC - "	500 -4	%				
8.	Nature of Fibre		Polyan	nide				
2	Nature of Dye	-	Acid,	Shade - 3%	of Shade n		eid Blue	<u>e 247</u>
10.	Colour Fastness to:					Acid		
	i) Light			Ra	ling 5 or b	eller	IS:245	14 -
	ii) Washi	ng			4			
	•	a) Chang b) Staini			or better		IS:76	d ~