

AMENDMENT NO.1 TO SPECIFICATION NO. IND/TC/4677 OF JACKET
WIND CHEATER

1. At Page No.14
Appendix A' (Sheet 1 Of 2)
Under Column Half back

For - Half Back

Read - Half Back (10 cm above the bottom point of extended yoke)

2. All other contents shall remain unchanged.

4. This Amendment No.1 shall be kept with the Specification No. IND/TC/4677 dated 03 Aug 2015.

DATE: 18 JUNE 2018



OITC
CONTROLLERATE OF QUALITY ASSURANCE
TEXTILES AND CLOTHING
ASHOK PATH
KANPUR 208 004

(65)

कार्यकारी प्रति - SPECIFICATION No. IND/TC/4677
Supersedes PPO Specn No. DMSRDE/T&GS/2000/446
Drawing Sheet Attached : Two



Sealed vide
DC No - 8699-TC
09/09/2015

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DGQA ORGANISATION

SPECIFICATION

FOR

JACKET WIND CHEATER

DEFENCE STORE CATALOGUE No.
8415-002561 To 8415-002563

ISSUED BY

CONTROLLER
CONTROLLERATE OF QUALITY ASSURANCE
TEXTILES AND CLOTHING
ASHOK PATH
KANPUR 208 004

YEAR: 2015

PRICE: Rs.

R.K. Boruah
आर.के. बरुआ
R.K. BORUAH
SSO-1

Babavaraj M.H.
बासवराज एम.एच.
BABAVARAJ M.H.
JAO (NPSG)

कार्यकारी प्रति SPECIFICATION No. IND/TC/4677
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RECORD OF AMENDMENTS

AMENDMENT No.	DATE	DETAILS OF AMENDMENTS	AMENDMENT CARRIED OUT BY & DATE
1	2/7/18	filed at 1/206	filed at 5/209

2/1/2018

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प्रा. वि. प्रकाश
र. प्र. प्रकाश प्रकाश
BANSYARAJI B.H.
1/1/2018

CONTENTS

Sl. No	CONTENTS	PAGE No.
0.	FOREWORD	4
1.	SCOPE	5
2.	RELATED SPECIFICATION/REFERENCES	5-6
3.	TERMINOLOGY, DEFINITIONS AND SYMBOLS	6
4.	STANDARD PATTERN	6
5.	MATERIALS	6-7
6.	MANUFACTURE/ PROCESSING	7-9
7.	DIMENSIONS AND TOLERANCES	9
8.	WORKMANSHIP AND FINISH	10
9.	ADVANCE SAMPLE	10
10.	PRE-INSPECTION BY MANUFACTURER	10
11.	QUALITY ASSURANCE	10-11
12.	SAMPLING PROCEDURE	11-12
13.	CRITERIA FOR CONFORMITY	12
14.	TEST METHODS	12
15.	MARKING ON STORE	12
16.	PACKAGING & MARKING	12
17.	TECHNICAL LITERATURE /DOCUMENT	12
18.	WARRANTY	13
19.	DEFENCE STORES CATALOGUE No.	13
20.	DRAWING/SKETCHES	13
21.	SUGGESTION FOR IMPROVEMENT	13
22.	APPENDIX 'A'	14-15
23.	DRAWING SHEETS	16-17

0.0 **FOREWORD**

- 0.1 This specification containing 17 No. of pages, has been prepared by Controller, Controllerate of Quality Assurance (Textiles and Clothing), DGQA Complex, Ashok Path, Kanpur on behalf of the Director General of Quality Assurance, Ministry of Defence, New Delhi.
- 0.2 This specification supersedes the Provisional Specification No. DMSRDE/T&GS/2000/446 and any other important relevant information on the store.
- 0.3 This specification shall be used for procurement, manufacture and Quality Assurance of the item covered by this specification.
- 0.4 The Quality Assurance Authority for the store covered by this specification is the Controller, Controllerate of Quality Assurance (Textile & Clothing), DGQA Complex, Ashok Path, Kanpur-208004. Enquiries regarding this specification related to technical particulars shall be referred to the QA authority mentioned in the tender or contract.
- 0.5 Any deviation from this specification will not be resorted to without the explicit written sanction of the QA Authority viz. The Controller, Controllerate of Quality Assurance (Textile & Clothing), DGQA Complex, Ashok Path, Kanpur-208004 or his authorized representative.
- 0.6 This specification is liable to amendment at any time and therefore is applicable only to specific enquiry made at that time. For any subsequent enquiry, a fresh copy of the specification is to be obtained.
- 0.7 Copies of any other reference document such as specification/drawing can be obtained from AHSP or from respective agencies.
- 0.8 The store must conform in all respects with this specification and other particulars issued with it.

1.0 **SCOPE**

1.1 This specification covers the requirements of Jacket wind cheater in three sizes i.e Small, Medium & Large against defence requirements and provides guidance to contractors/suppliers, manufacturers, QA agencies and indenters etc.

1.2 The Jacket Wind Cheater is intended to be used by army personnel in snow bound areas as over garment.

2.0 **RELATED SPECIFICATIONS/REFERENCES**

2.1 Reference is made in this specification to: -

Sl.No.	SPECIFICATION No.	NOMENCLATURE
(a)	IND/TC/0157	Fabric Nylon, 75 GSM White, PU Coated
(b)	IS 14181 (Pt 1 to 3):2002 Amd-2 RA 2013	Synthetic (Plastic) Slide Fasteners-Medium Special Duty Open end White Synthetic (Plastic) Slide Fastener Light Special Duty Closed End White
(c)	IS:9686-1980 Amd-1 RA 2012	Tape Elastic 15 mm wide, White
(d)	IS:4229:1992 Amd-1, RA 2008	Nylon Sewing Thread for Aerospace purposes White (Variety L2)
(e)	JSS:4020-9-2013 (Revision No.3)	Cord Nylon 1785 N Undyed/White
(f)	IS:9543-1980 RA 2010	Spun Polyester Sewing Thread
(g)	IND/TC/PMS/2008 with Amd No.3	Packing & Marking
(h)	IS:5041:1978, Amd-2, RA 2013	Footwear & Stationary Eyelet

2.2 Copies of IS specifications can be obtained on payment from Bureau of Indian Standards (BIS), Manak Bhavan, 9 Bahadur Shah Jafar Marg, New Delhi or from their website www.bis.org.in.

2.3 Copies of CQA (T&C) specifications i.e. IND/TC series can be obtained on payment from Controllerate of Quality Assurance (T&C), DGQA Complex, Ashok Path, Kanpur.

2.4 Copies of JSS specifications may be obtained from The Director, Directorate of Standardisation, Ministry of Defence, Standardisation Documentation Center, Room No. 13, J Block, DHQ PO, New Delhi on payment.

3.0 TERMINOLOGY, DEFINITIONS & SYMBOLS

3.1 For the purpose of this specification, the standard, definitions, terminology and symbols referred in the relevant IS are applicable.

4.0 STANDARD PATTERN

4.1 The standard pattern of Jacket Wind Cheater held in the custody of the Controller CQA (T&C), Kanpur shall constitute the standard as regards any particulars/properties not noted/defined in this specification.

5.0 MATERIALS

5.1 The Jacket Wind Cheater shall be manufactured from the materials as per details given below:-

Sl. No.	Component	Material	Particulars
(a)	Body & other Component	Fabric Nylon, 75 GSM White, PU Coated	IND/TC/0157 →
(b)	PSF	Synthetic (Plastic) Slide Fasteners- Medium Special Duty Open End White Synthetic (Plastic) Slide Fasteners Light Special Duty Closed End White	IS:14181 (Pt 1-3);2002 Amdt No.2 RA 2013
(c)	Tape Elastic	Tape Elastic 15 mm wide, White	IS:9686-1980 Amd-1 RA 2012
(d)	Vent Holes Eyelet Steel	Footwear & Stationary Eyelet	IS:5041:1978, Amd-2, RA 2013
(e)	Sewing Thread	Nylon Sewing Thread for Aerospace purposes, White, Variety L2	IS:4229:1992 Amd-1, RA 2008
(f)	Overlock Thread	Spun Polyester Sewing Thread for over locking Variety No.1 (85d tex x 3)	IS:9543:1980 RA 2010
(g)	Tying Cord & Hanger	Cord Nylon 1785 N Undyed/White	JSS:4020-9-2013 (Revision No.3)

Sl. No.	Component	WORKING Material	Particulars
(h)	Tip used at the end of Tying Cord	Detachable Cap Plastic Cord Lock Stop End White	Best Trade Quality

Note: All specifications referred to in this specification for any tender or contract shall mean the edition current on the date of such Tender or Contract.

6.0 MANUFACTURE/PROCESSING

6.1 The Jacket Wind Cheater shall be manufactured as per details given below:-

6.2 Fore-part

6.2.1 The Jacket shall have two fore-parts, i.e. right and the left. Each fore-part shall have a yoke extended upto about arm-pit level and joined to the lower body by one row of machine stitching from inside. The yoke shall over hang the joining seam to form a double layered 3.0 cm. wide overlapping flap hanging freely. The overall turning of the flap shall be 5.0 cm. The ends of the flap shall be caught at fore-edges sides by machine stitching, as per the sealed sample. Free edge of the flap shall be finished with one row of machine stitching, 0.5 cm apart.

6.2.2 Synthetic (Plastic) Slide fastener, medium special duty, open-end White shall be joined to the open edge of the fore-parts by two rows of machine stitching for front closure, as per the sealed sample.

6.2.3 An additional rectangular storm flap in single layer of self material shall be attached to each fore-part longitudinally by one row of machine stitching. The free edges of the storm flap shall be attached with Synthetic (Plastic) Slide fastener, medium special duty, open end white by two rows of machine stitching for front closure to prevent ingress of snow and high velocity winds. The left and right parts of the storm flap shall be 4.5 cm and 10.0 cm wide respectively, as per the sealed sample. The top and bottom hem of storm flap shall be 3.0 cm and 1.5 cm wide, respectively.

6.3. Back

6.3.1 The back shall be in one piece having an extended yoke finished in similar manner as in the fore-part except that the yoke shall be joined to the body by two rows of machine stitching 5.0 cm long at three places only, to form 10.0 cm long four numbers of concealed horizontal ventilation slits, as per the sealed sample.

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6.3.2 The yoke shall be aligned horizontally all-round about the arm pit level, as per the sealed sample.

6.4 Sleeves

6.4.1 The sleeves shall be cut in deep scye one piece raglan design. It shall be joined by single plain seam. The bottom of sleeve shall be turned in and stitched by one row of machine stitching to form a 20.0 mm wide tunnel. Tape Elastic 15mm wide, white shall be inserted in the tunnel and the ends joined together by cross and box type stitching, as per the sealed sample.

6.5 Hood

6.5.1 Hood shall be made in double layer of self material. Each layer shall be cut in two pieces to the shape and design, as per the sealed sample.

6.5.2 The cut pieces of each layer shall be joined separately by single row of machine stitching.

6.5.3 Two layers shall then be joined together at face periphery by single plain seam and then bagged out. The bagged out face periphery shall then be stitched by two rows of machine stitching 1.5 cm apart to form a tunnel. Cord Nylon White 1785N shall be inserted in the tunnel as per the sealed sample. Detachable Cap Plastic Cord Lock Stop End White shall be provided at each free end of Cord Nylon.

6.6 Assembly

6.6.1 Fore-part and back, sleeves and hood shall be assembled together by one row of machine stitching.

6.7. Pockets

6.7.1 A horizontal cut pocket shall be provided on left fore-part, the opening of which shall be concealed under the hanging flap of the yoke. Synthetic (Plastic) Slide Fastener, light special duty closed end white shall be stitched by two rows of machine stitching at the pocket mouth for closure. The pocket shall be 6.0 cm away from the left fore edge. Cord Nylon White 1785N with heat sealed at the end shall be provided at inner side of the pocket, as per the sealed sample.

6.7.2 Each fore-part shall be provided with a slant cut pocket near the bottom. Synthetic (Plastic) Slide fastener, light special duty closed end white shall be attached at the pocket mouth by two rows of machine stitching, for closure, as per the sealed sample.

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6.8 Bottom

6.8.1 The bottom shall have a 1.5 cm wide tunnel formed by turning in the raw edges and stitched by single row of machine stitching for insertion of Cord Nylon White 1785N, as per the sealed sample. Detachable Cap Plastic Cord Lock Stop End White shall be provided at each free end of Cord Nylon.

6.9 Vent Holes

6.9.1 Each fore-part shall be provided with a vent hole fitted with an eyelet, along with two washers of body material at 4.0 cm below the free edge of the yoke level and 2.5 cm away from the side joining seam near the arm-pit, as per the sealed sample.

6.10 Hanging Loop

6.10.1 Cord Nylon White 1785 N shall be attached to the Jacket Wind Cheater, both ends of which shall be caught at the bottom of hood portion at centre back inside to form 6.0 cm long loop as per drawing/sealed sample.

6.11 General Stitching

6.11.1 The Jacket Wind Cheater shall be assembled throughout with lock stitch regulated at 35 to 40 stitches per decimeter with even tension. Back tacking of 1.5 cm shall be done at ends of stitching and loose threads shall be trimmed off.

6.11.2 While stitching the Jacket Wind Cheater, the uncoated side of Fabric Nylon 75 GSM White PU Coated should be kept on face side and coated side of fabric should be kept inside of the made-up garment. In case of pocket, coated side of Fabric Nylon 75 GSM White PU Coated should be kept outside.

6.12. Over locking

6.12.1 The raw edges at neck, sleeves, sides, front, yoke and pockets shall be finished with over lock stitching, as per the sealed sample.

7.0 DIMENSIONS AND TOLERANCES

7.1 The Jacket Wind Cheater shall conform to the dimensions and tolerances given in the Appendix A to this specification. The Jacket shall conform to the shape, design and dimensions as also given in the drawing of the specification.

8.0 WORKMANSHIP AND FINISH

8.1 The general workmanship and finish shall be of high standard and similar to approved/sealed sample of CQA (T&C) Kanpur. The Jacket Wind Cheater shall be free from stitching defects like uneven stitch, puckering, gathering of threads, cuts & holes, tackiness, sticky or patchy coating, stains and any other spots affecting the aesthetic appearance. Further Jacket Wind Cheater shall be compatible as a component of a system in respect of fitment and workmanship & finish when worn as over garment.

9.0 ADVANCE SAMPLE

9.1 Manufacturers / Contractors who have not supplied this store during the last three years have to submit advance samples *manufactured from specified materials for inspection, testing and trial* /clearance by AHSP / concerned SQAE(GS) of that area prior to commencement of bulk production. Number of samples required for material, dimensional check and test /proof shall be two or as laid down in the contract.

10.0 PRE-INSPECTION BY MANUFACTURER

10.1 Manufacturers/Contractors must satisfy themselves first that the store manufactured are in accordance with the contract and fully conform to the specification, by carrying out thorough pre-inspection of each store of the lot/batch before actually tendering the same for inspection to the Quality Assurance Officer nominated under the terms of the contract.

10.2 A declaration by the Contractor that necessary pre-inspection has been carried out on the stores tendered and the same are fit for inspection and tests carried out shall be rendered along with the challan. The declaration shall include the method followed in pre-inspection showing features checked/tested and will have the test certificate attached to the challan/declaration.

10.3 If the Quality Assurance officer finds that pre-inspection of the consignment as required above has not been properly carried out, the consignment is liable for rejection.

11.0 QUALITY ASSURANCE

11.1 On examination of samples taken from any portion of the consignment or during surveillance inspection shall conform to the requirement when tested in accordance with the methods mentioned against each in this specification.

11.2 The store should be of the latest manufacture, conforming to the current production standard and having 100% defined life at the time of delivery.

12.0 SAMPLING PROCEDURE

12.1 The maximum size of the lot is restricted to 10,000 Nos only.

12.2 The supplier shall offer the store in packed condition (in bundles of '5'), as stipulated in clause 16, serially numbered and arranged in such a manner that the entire lot is easily accessible to the sampling officer.

12.3 Based on the lot size offered for Quality Assurance, sample units for visual examination and dimensional check at the time of sampling be drawn as per column (2) & Bulk QA as per column (4) of the table given below using technique of random sampling as per IS: 4905.

12.4 On having been satisfied with the preliminary examination, samples if required for laboratory test /examination shall be drawn as per column 5 of the table given below:

**TABLE FOR SCALE OF SAMPLING AND PERMISSIBLE NUMBER
BASED ON 4% AQL IS: 2500 (Pt 1) -2000/
ISO: 2859-1999 (Pt-I)**

Lots Size in Nos.	Sampling Plan for						
	Visual examination/ dimensional check at the time of sampling(L-1)		Sample size for detail check at Bulk QA stage (L-II)	Physical Parameters (for laboratory tests) (S-4)		Chemical Parameters (for laboratory tests) (S-2)	
	Sample Size	Acceptance No.		Sample Size	Acceptance No	Sample Size	Acceptance No
1	2	3	4	5	6	7	8
Upto 280	13	1	32	13	1	5	0
281 - 500	20	2	50	13	1	5	0
501 - 1200	32	3	80	20	2	5	0
1201 - 3200	50	5	125	32	3	8	1
3201-10000	80	7	200	32	3	8	1

- Note:-**
- i) Sampling shall be drawn randomly as per IS: 4905-1968, reaffirmed 2011, Amd-1.
 - ii) Samples for lab testing will be drawn from the

- samples drawn and mentioned in column (2) only.
- iii) Samples for chemical test (Column No.7) shall be drawn out of physical test samples (Column No.5).
- iv) Total acceptance No. mentioned in the physical parameter (Column-6) is inclusive of Chemical Parameter Acceptance No. (Column-8)

13.0 CRITERIA FOR CONFORMITY

13.1 The lot shall be considered to be in conformity to the specification if the samples drawn for lab test, static and dynamic QA and on visual examination are found conformed to the requirement of this specification.

14.0 TEST METHOD

14.1 The basic cloth and garniture used shall be pre-inspected and conform to the specification requirements when tested as per method laid down in the relevant specification.

14.2 The test methods quoted in the relevant specification is only to be followed for repeatability and reproducibility of test results.

15.0 MARKING ON STORE

15.1 Each Jacket wind cheater shall be stitched with a white cloth taffeta synthetic printed label of size 7.5 cm x 6.0 cm located near the neck seam at inner of back portion. The label shall be printed with the following details:-

- (i) Manufacturer's name/initials or recognized trade mark
- (ii) Year of Manufacturing
- (iii) Brief nomenclature of store
- (iv) Cat/Part No. & Size of store

15.2 The Acceptance Mark of QA Officer is to be put on each accepted store as per instruction issued from time to time by Controller CQA (T&C), Kanpur preferably on inside of pocket (Uncoated side).

16.0 PACKING AND MARKING

16.1 Packing and Marking shall be as per CQA (T&C) Kanpur Packing & Marking Schedule No. IND/TC/PMS/2008 with Amendment No.3.

17.0 TECHNICAL LITERATURE AND DOCUMENTS

17.1 Refer clause 2 of this specification.

18.0 **WARRANTY**

18.1 All stores to be supplied should be free from all defects and faults in material, workmanship and manufacture. The store should be of the highest grade and consistent with established and generally accepted standards for material of the type used and in full conformity with the specifications, drawings or samples and shall, if operable, operate properly. The seller shall be bound to furnish a clear written warranty regarding the same. In the event of the ultimate consignee in India not finding the stores in accordance with the order, the seller will be required to replace them free of cost inclusive of all freight and handling charges. Such replacements will be done within 90 days of the claim report raised by the purchaser. The standard conditions will also apply in respect of replaced stores. This warranty shall remain valid for 18 months after delivery or 12 months after their arrival at the ultimate destination in India, whichever is earlier, or as specified in the contract.

19.0 **DEFENCE STORE CATALOGUE No.**

19.1 **STORE**

Cat / Part Number

Jacket Wind Cheater

Size Small

8415-002561

Size Medium

8415-002562

Size Large

8415-002563

20.0 **DRAWINGS/SKETCHES**

20.1 Two drawing sheets attached to this specification.

21.0 **SUGGESTION FOR IMPROVEMENT**

21.1 This specification is a live document and subject to change / updating. Any suggestions for improvement of this document may be sent to: -

CONTROLLER
CONTROLLERATE OF QUALITY ASSURANCE
(TEXTILES AND CLOTHING)
ASHOK PATH,
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DATE: 03 Aug 2015

CONTROLER
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JACKET WIND CHEATER- DIMENSIONS

Sl No.	Size	Length at		Round measurement at			Sleeve		Depth of yoke at		Zip length		Length of storm flap	Distance of lower end of storm flap from bottom edge of Jacket		
		Front (from neck point)	Back (from hood joint)	Chest (when closed)	Waist (when closed)	Seat (when closed)	Length (from neck point to bottom of sleeve)	Elbow	Round Measurement at	Front (from neck point)	Back (from hood Joint)	Main at front			At storm flap	
1.	Small	71	80	136	136	136	80	47	36	24	26	29	72	50	50	8
2.	Medium	76	85	142	142	142	83	50	38	26	28	31	76	54	54	10
3.	Large	81	90	148	148	148	86	50	38	28	30	33	80	58	58	12
Tolerance(±)		1.0	1.0	2.0	2.0	2.0	1.0	0.5	0.5	0.5	0.5	0.5	-	1.0	-	0.5

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HOOD (FOR ALL SIZES)

Neck (edge to edge)	Round face periphery	Height at Centre	Overall crown length
58	70	36	60
Tolerance(±)	1.0	0.5	1.0

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R.K. SORUJAI
JAG (INDIA)

Bruah
श्री. सं. क. सोनी
R.K. SORUJAI
SSOM

GENERAL DIMENSIONS

1. Width of storm Flap	Right	-	10.0
	Left	-	4.5
2. Width of tunnel at bottom			1.5
3. Storm Flap hem	Top	-	3.0
	Bottom	-	1.5
4. Sleeve Bottom hem		-	1.5
5. Chest Pocket mouth/Zip length		-	20.0
6. Slant Pocket mouth/Zip length		-	20.0
7. Yoke hem		-	3.0
8. Length of Tape Elastic at bottom of sleeve	Small	-	20.0
	Medium	-	22.0
	Large	-	22.0
9. Length of Cord Nylon White 1785N at			
(a) Bottom of Jacket	Small	-	155.0
	Medium	-	160.0
	Large	-	165.0
(b) Hood	Small	-	80.0
	Medium	-	80.0
	Large	-	80.0
(c) Chest Pocket		-	29.0 (each)
10. Width of tunnel at face periphery of hood		-	1.0
11. a) Distance of upper end of slant pocket from side seam		-	13.0
b) Distance of lower end of slant pocket from side seam		-	7.0
c) Distance of lower end of slant pocket from bottom.	Small	-	15.0
	Medium	-	16.0
	Large	-	17.0
12. Length of hanging loop		-	6.0

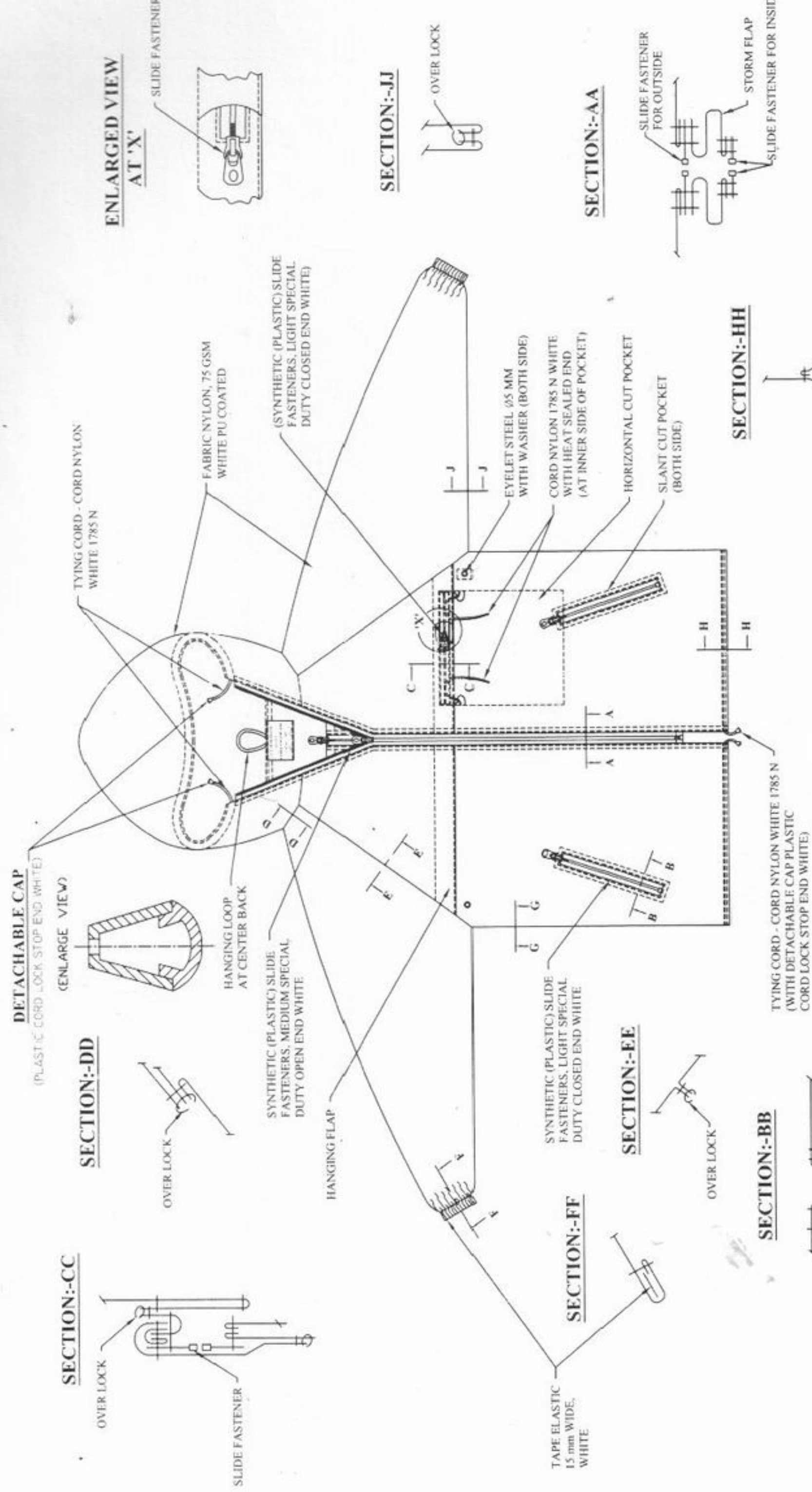
Note: All dimensions are in Cms

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SHEET No 1 OF 2

SPECIFICATION No IND/TC/4677

JACKET WIND CHEATER
(FRONT VIEW)



DGN. DRN. CHD. TRD. COMP.		NAME Ajay Kumar Ajay Kumar	
DATE: 22-03-15		SCALE: ...	
PASSED BY: <i>Ajay Kumar</i> AJAY KUMAR JTO (D)		APPROVED BY: <i>R.K. Boruah</i> R.K. BORUAH SSO-1	
GO/TC-15		DC/TC-15	
CONTROLLERATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING) MINISTRY OF DEFENCE (DGDA) KANPUR			



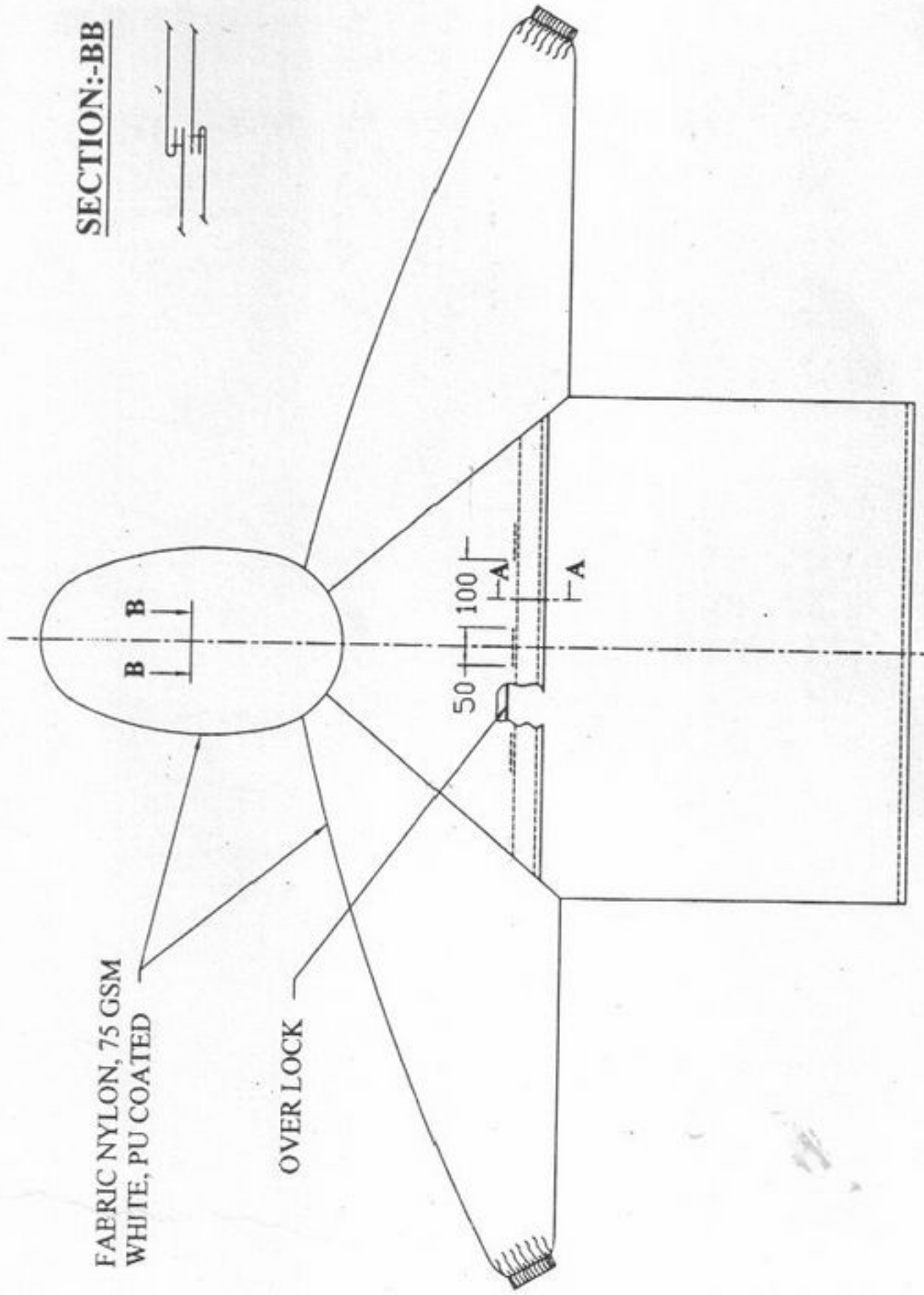
TC-4/16/2015

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BABAVARAJ M.E.
JAO (RFBG)

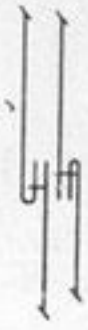
SHEET No 2 OF 2

SPECIFICATION No IND/TC/4677

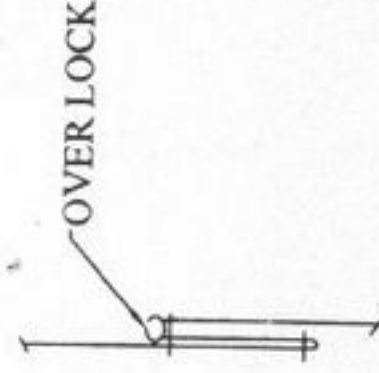
JACKET WIND CHEATER
(BACK VIEW)



SECTION:-BB



SECTION:-AA



CONTROL RATE OF QUALITY ASSURANCE (TEXTILE & CLOTHING) MINISTRY OF TEXTILES & JUTE KANPUR		ALL DIMENSIONS ARE IN mm SHEET ATTACHED TO SPECN. NO. IND/TC/4677	
DATE: _____ DGN: _____ DRN: _____ CHD: _____ TRD: _____ COMP: _____ SCALE: ---		NAME: _____ AJAY KUMAR AJAY KUMAR AJAY KUMAR	
PASSEBY: _____ APPROVED BY: _____ DC/TC-15		JACKET WIND CHEATER R.K. BORLIANI 15/02/2016	

Handwritten signature/initials

INDIAN STANDARDS
BUREAU OF STANDARDS
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