

PROV. SPECIFICATION NO. S/3558/A/TC-15/TROUSERS ECC (TWC & TSP)(a)

Supersedes Prov. Specification No. S/3558/A/TC-15/TROUSERS ECC(TWC & TSP) (a)



GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DGQA ORGANISATION

PROVISIONAL SPECIFICATION

FOR

**TROUSERS ECC (COMBINATION OF TROUSERS WIND
CHEATER & TROUSERS SERGE POLYWOOL 1973 PATTERN
(MODIFIED))**

DS CAT No. NTV

ISSUED BY

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

YEAR: 2015

PRICE:

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RECORD OF AMENDMENTS

AMENDMENT Sl. No.	DATE	DETAILS OF AMENDMENTS	AMENDMENT CARRIED OUT BY & DATE

Mead

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0.0 **FOREWORD**

0.1 The Provisional Specification containing 12 No. of pages, has been prepared by Controllerate of Quality Assurance (T&C) Kanpur on behalf of the Director General of Quality Assurance, Ministry of Defence, Govt of India.

0.2 This Provisional Specification is prepared based on the decision taken in the EC meeting of ECC & E held on 27 April 2012 issued vide MGO Branch letter No A/20898/ECC&E/WC/OS-PII dated 24.05.2012.

0.3 The technical inputs provided by OCF Shahajahanpur and Board proceedings forwarded by COD Kanpur was also taken into consideration while preparing the specification.

0.4 This specification supersedes Provisional Specification No. S/3558/A/TC-15/Trousers ECC (TWC & TSP)(a) and any other information relevant to it.

0.5 This specification shall be used for tender enquiry, procurement, manufacture and Quality Assurance of Trousers ECC.

0.6 The Quality Assurance Authority for the store covered by this specification is the Controller, Controllerate of Quality Assurance (Textiles & Clothing), Ashok Path, Kanpur 208004. Enquiries regarding this specification related to technical particulars shall be referred to the Quality Assurance Authority mentioned in the tender or contract.

0.7 Any deviation from this specification will not be resorted to without the explicit written permission of the Controller, Controllerate of Quality Assurance (Textiles and Clothing), Kanpur or his authorised representative

0.8 This specification is liable to amendment at any time and therefore is applicable only to specific enquiry made at any time. For any subsequent enquiry, a fresh copy of the specification is to be obtained.

0.9 Copies of any other reference document such as specification/drawing can be obtained from AHSP or from respective agencies.

0.10 The store must conform in all respects with this specification and other particulars issued with it.

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9.0 **ADVANCE SAMPLE**

9.1. Advance sample clause is applicable only if it is mentioned in the contract. In case of its applicability, the Manufacturer needs to submit 03 Sets of Trousers ECC representing size(s) involved in the contract along with three meters each of basic materials as advance samples of specified materials for inspection/ trial, testing and approval to AHSP/concerned SQAE(GS) of that area for bulk production clearance (BPC) 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/tests have been carried out on the stores tendered and the same are fit for inspection and test report shall be rendered along with the challan. The declaration shall include the method followed in pre-inspection showing features checked/tested and the test reports be submitted along with challan.

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 random samples taken from any portion of the consignment or during surveillance inspection shall conform to the requirement when tested in accordance with the method mentioned against each in the 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.

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12.0 **SAMPLING PROCEDURE**

12.1 The lot size is restricted to 5,000 Sets of Trousers ECC (TWC & TSP)

12.2 The supplier shall offer the stores in bundles of 5 sets and 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 and for bulk inspection as per column-4 of the table using technique of random sampling as per IS: 4905 :1968.

12.4 On having satisfied with the preliminary examination, samples if required for laboratory test/examination shall be drawn as per column-5 & 7 of the table.

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

Lot Size in Sets	Sampling Plan for						
	Visual examination/ dimensional check at the time of sampling(L-I)		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

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1.0 **SCOPE**

1.1 This specification covers the requirement of Trousers ECC in sixteen sizes which is a set of combination of existing Trousers Wind Cheater (TWC) & Trousers Serge Polywool 1973 Pattern (Modified)(TSP).

1.2 The Trousers Wind Cheater is to be worn as outer layer over Trousers Serge Polywool 1973 Pattern (Modified).

1.3 Trousers ECC is intended to use by Indian Army in snow bound areas, at high altitude against rough weather conditions.

1.4 This provisional specification is applicable for Trousers ECC when Trousers Wind Cheater and Trousers Serge Polywool 1973 Pattern (Modified) are purchased, offered, inspected and packed as a set.

2.0 **RELATED SPECIFICATIONS AND DOCUMENTS**

2.1 The governing specification along with Cat/Part No. of Trousers Wind Cheater and Trousers Serge Polywool 1973 Pattern (Modified) are as under :-

Cat/Part No.	Nomenclature	Specn. No.
8405-004617 to 8405-004619	Trousers Wind Cheater	IND/TC/4678
8405-004571 to 8405-004586	Trousers Serge Polywool 1973 Pattern (Modified)	IND/TC/4634(1)

2.2 The content/supulation of Trousers Wind Cheater and Trousers Serge Polywool 1973 Pattern (Modified) specifications mentioned above are applicable as mentioned in corresponding Para of this specification.

3.0 **TERMINOLOGY, DEFINITION AND SYMBOLS**

3.1 For the purpose of this standard, the definitions & terminology given in the IS: 14281:2004 and relevant Indian standard shall apply.

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4.0 **STANDARD PATTERN**

4.1 The standard pattern of Trousers ECC (a combination of TWC & TSP) held in the custody of the Controller CQA (T&C), Kanpur shall constitute the standard as regards to any particulars/properties not noted/defined in this specification.

5.0 **MATERIALS**

5.1 The material of Trousers ECC shall be governed by specifications mentioned at clause 2.1.

6.0 **MANUFACTURE / PROCESSING**

6.1 The store shall be manufactured as per governing specification mentioned at clause 2.1.

7.0 **DIMENSIONS AND TOLERANCES**

7.1 The detail size-wise dimensions & tolerances of both Trousers Wind Cheater and Trousers Serge Polywool are governed by respective specifications mentioned at clause 2.1.

7.2 The various sizes of Trousers ECC as a set of Trousers Wind Cheater and Trousers Serge Polywool be made on the basis of mutual compatibility of corresponding sizes of TWC and TSP as given in Appendix 'A'

8.0 **WORKMANSHIP AND FINISH**

8.1 The general workmanship and finish of Trousers ECC shall be of a high standard and similar to approved sample. In order to attain high standard in aesthetic appearance (shade, fitments and texture), general workmanship (alignments, stitching and consistency), finish (softness, comfort and neatness), the Trousers ECC shall be free from yarn, weaving, wet processing, garmenting defects and any other spots which affects the serviceability of the Trousers ECC. All components of the Trousers ECC shall also be compatible in fitment, workmanship and finish.

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- Note:-**(i) The Sampling shall be done randomly as per IS: 4905-1968,Amd -1
- (ii) Samples for lab testing will be drawn from the samples drawn and mentioned in Col No. 2 only.
- (iii) Samples for chemical test (Col. No.7) shall be drawn out of Physical test samples (Col. No.5).
- (iv) Total Acceptance No. mentioned in the physical Parameter (Col. No. 6) is inclusive of Chemical Acceptance No. (Col. No.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 conform to the requirement of this specification.

14.0 TEST METHOD

14.1 The basic cloth and garniture used shall 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 OF STORE

15.1 Marking Label:- Each Trousers ECC (Inner Layer & Outer Layer) shall have a marking label of size 7 cm X 2.5 cm made of cloth taffeta synthetic white folded in double layer and securely stitched to the bottom waist seam at 3.5 cm left from back center inside. The label shall contain the following details in HINDI / ENGLISH on face & back of the size label respectively.

Trousers ECC (Inner Layer)
Size : 10 M*
Cat Part No. NIV
Manufacturer's Name-----
Year of Manufacture-----

Trousers ECC (Outer Layer)
Size : 10 M*
Cat Part No. NIV
Manufacturer's Name-----
Year of Manufacture-----

Note : *In the column of size, the size of Trousers ECC is to be mentioned in accordance with compatibility size table given in Appendix 'A'.

15.2 Washing Instruction Label:- As per relevant specification of Trousers Wind Cheater and Trousers Serge Polywool 1973 Pattern (Modified) given in clause 2.1 of the specification.

16.0 PRESERVATION AND PACKING

16.1 The preservation and packing of Trousers ECC shall be as per CQA (T&C) Kanpur Packing & Marking Schedule No. IND/TC/PMS/2008 with amendment No.3 except quantity to be packed as given below:-

- (a) No. of Trousers ECC per bundle - 05 sets
- (b) No. of bundles per inner box - 02
- (c) Total quantity of Trousers ECC in Outer box - 20 Sets

17.0 TECHNICAL LITERATURE/ DOCUMENT:

17.1 Refer clause 2.1 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.

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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, whichever is earlier, or as specified in the contract.

19.0 DEFENCE STORE CATALOGUE No.

19.1 STORE

CAT No.

Trousers ECC (Combination of TWC & TSP)

NIV

20.0 DRAWINGS/SKETCHES

20.1 For drawing refer governing specifications mentioned in clause 2.1.

21.0 SUGGESTION FOR IMPROVEMENT

21.1 Any suggestions for improvement of this document may be forwarded to:-

CONTROLLER
CONTROLLERATE OF QUALITY ASSURANCE
(TEXTILES AND CLOTHING)
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DATE: 07 ^{Jun} MAY 2015


CONTROLLER
CQA (T&C)
KANPUR
Ans
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APPENDIX 'A'

MUTUAL COMPATIBILITY CHART FOR MAKING
COMBINATION OF STORES AS A SET

TROUSERS WIND CHEATER (OUTER LAYER) AND TROUSERS
SERGE POLYWOOL 1973 PATTERN (MODIFIED)

Sl.No.	Inner Layer of Trousers ECC (Size of Trousers Serge Polywool 1973 Pattern (Modified))	Outer Layer of Trousers ECC (Size of Trousers Wind Cheater)	Size of Trousers ECC for placement of order
1.	1	S	1S
2.	2	S	2S
3.	3	S	3S
4.	4	S	4S
5.	5	S	5S
6.	6	S	6S
7.	7	S	7S
8.	8	S	8S
9.	9	S	9S
10.	10	M	10M
11.	11	M	11M
12.	12	M	12M
13.	13	M	13M
14.	14	L	14L
15.	15	L	15L
16.	16	L	16L

L - N-31 to 31.5
M - W-32 to 32.5