

मूल प्रति  
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Specification No. Prov/IND/TC/0027 (a)  
Supersedes Specn No Prov Drg IND/TC/0027  
13 Nos Drawing plate attached



Sealed vide  
DC No. 8701-TC  
09/09/2015

GOVERNMENT OF INDIA  
MINISTRY OF DEFENCE  
DGQA ORGANISATION

SPECIFICATION

ON

**SHELTER CANVAS BIVOUAC COMPLETE**  
**(DS CAT NO: - J1/ 8340-000662)**

ISSUED BY

CONTROLLER

CONTROLLERATE OF QUALITY ASSURANCE  
(TEXTILE & CLOTHING)  
DEPTT. OF DEFENCE PRODUCTION (DGQA)  
MIN.OF DEFENCE

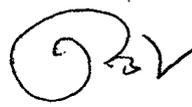
ASHOK PATH, KANPUR 208004

E-mail :cqatc-dgqa@nic.in

PRICE: Rs.

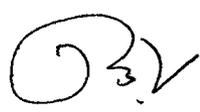
YEAR: 2015

  
(RAM AVTAR)  
J.T.O.C.S)

  
(JEEVENDER SINGH)  
LT. COL.

RECORD OF AMENDMENTS

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



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## 0.0 FOREWORD

0.1 This specification containing 25 No. of pages including 13 drawing plates, has been prepared by Controller, Controllerate of Quality Assurance (T&C), Ashok Path, Kanpur 208004 on behalf of the Director General of Quality Assurance, Ministry of Defence, New Delhi.

0.2 This specification supersedes the specification No. Prov Drg IND/TC/0027 and any other important relevant information of the store.

0.3 This specification shall be used for procurement, manufacture and QA of the item covered by this specification.

0.4 The Quality Assurance Authority for the store covered by this specification is the Controllerate of Quality Assurance (Textile & Clothing), Ashok Path, Kanpur-208004. Enquiries regarding this specification relating to technical particulars shall be referred to QA authority mentioned above/quoted 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 Controllerate of Quality Assurance (Textiles & Clothing), Ashok Path Kanpur-208004 or its authorized representative.

0.6 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 specification is to be obtained.

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

0.8 The store must conform in all respect with this specification and other particulars issued with it.



## 1. SCOPE

1.1 This specification covers the requirements of D.S Cat No. J1/8340-000662, Shelter Canvas Bivouac Complete against defence requirements and provides guidance to contractors/suppliers, manufacturers, QA agencies and indenters etc. The shelter is intended to be used for habitation purpose by Tank crew.

## 2.0 RELATED SPECIFICATIONS/REFERENCES & MATERIAL

2.1 Reference is made in this specification to following materials:-

S. N.	PARTICULARS	SPECIFICATION
(i)	Duck Cotton 475gm O.G ( WP&RP).	Variety No. 3 of IS: 1422 & IS 6803
(ii)	Glass Fabric , PVC coated , OG	IND/TC/2289
(iii)	Cotton Sewing Threads 270 d tex x9 OG	IS: 1720- 1978 RA 2012
(iv)	Cotton Sewing Threads 165 d tex x 6 OG RP	IS: 1720- 1978 RA 2012
(v)	Cotton Newar 25 mm OG	IS: 1895 -1982 RA 2012
(vi)	Cotton Newar 13 mm OG	IS: 1895 -1982 RA 2012
(vii)	Light weight webbing Thick 25 mm OG	IND/TC/0346 (a)
(viii)	Cord Nylon 3120 N BL	JSS: 4020-9-2013 Rev No.3
(ix)	Buckle Aluminum Alloy 51mm	Specn No. CQA(GS)/US/324
(x)	Tent Ring Iron Galvanized 19mm dia	Specn No. IND/GS/3341
(xi)	Toggle Tent Wood Type I	Spec No.IND/GS/1281(b)
(xii)	Runner Small Aluminium Alloy 4mm	Specn No.IND/GS/US/762 (d)
(xii)	Netting Mosquito R/M OG HDPE	IS: 10054-1996 Amd-1
(xiii)	Pin Carbon Steel Small for Tent	Specn No. IND/GS/1630
(xiv)	Pin Tent Angle Iron Medium MK-2	Specn No. CQA (GS)/US/428
(xv)	Pole Bivouac for Tank Crew	Prov Specn No DMSRDE /T&GS/76/225 (a)
(xvi)	Hammer Engineers Ball Pin 1000 gram (Fitted with Handle)	IS: 841-83 & SS No. CQA (GS)/SS/461 for quality of Timber.
(xvii)	Polythene film 0.04mm thick	IS:2508-1984-Amd-3 RA-2008
(xiii)	Twine , Jute , 3 ply	IS:1912-1984 Amd-1 RA-2007
(xiv)	Cloth 'Cee' Heavy Or Cloth Hessian (229g/m <sup>2</sup> 16 percent contract regain)	IS: 3751-1993 Amd-1RA 2010 Or IS: 2818 (Part-2) 1971 Amd -4 RA-2010
(xx)	Sampling Inspection Procedure	IS: 2500 (Pt-2) 2000
(xxi)	Random sampling	IS: 4905-Amd-1 RA 2011

2.2 Copies of specifications can be obtained on payment from Bureau of Indian Standards, 9 Bahadur Shah Jafar Marg, New Delhi or their regional offices.

2.3 Copies of CQA (GS) and CQA (T&C) specification i. e. IND/GS & IND/TC series can be obtained on payment from Controllerate of Quality Assurance (GS), Ashok Path, Kanpur 208004 and Controllerate of Quality Assurance (T&C), Ashok Path Kanpur 208004 respectively.

2.4 Copy of JSS specn can be obtained on payment from Dte. of Standardization H Block New Delhi-110011

### 3.0 TERMINOLOGY, DEFINITION AND SYMBOLS

3.1 For the purpose of this specification, definitions and terminology given in relevant Indian Standards apply.

### 4.0 STANDARD PATTERN

4.1 The standard pattern of D.S Cat No. J1/8340-000662, Shelter Bivouac Canvas Complete held in the custody of the Controller, Controllerate of Quality Assurance (Textile & clothing), Ashok Path, Kanpur-208004, shall constitute the standard as regards shade, appearance, general workmanship, finish and any other particulars or properties not noted / defined in this specification.

### 5.0 MATERIALS

5.1 The Shelter Bivouac Canvas shall be manufactured by using the materials as under:-

S. N.	PARTICULARS	SPECIFICATION
(i)	Duck Cotton 475gm O.G (WP&RP)	Variety No. 3 of IS: 1422 & IS 6803
(ii)	Glass Fabric , PVC coated , OG	IND/TC/2289
(iii)	Cotton Sewing Threads 270 d tex x9 OG	IS: 1720- 1978 RA 2012
(iv)	Cotton Sewing Threads 165 d tex x 6 OG RP	IS: 1720- 1978 RA 2012
(v)	Cotton Newar 25 mm OG	IS: 1895 -1982 RA 2012
(vi)	Cotton Newar 13 mm OG	IS: 1895 -1982 RA 2012
(vii)	Light weight webbing Thick 25 mm OG	IND/TC/0346 (a)
(viii)	Cord Nylon 3120 N BL	JSS: 4020-9-2013 Rev No.3

## **6.0 MANUFACTURE**

**6.1** The Shelter Canvas Bivouac shall be manufactured as per drawing attached.

## **7.0 DIMENSIONS AND TOLERANCE**

**7.1** The Shelter shall conform to the dimensions as laid down in attached drawing.

## **8.0 WORKMANSHIP AND FINISH**

**8.1** All the stitching shall be of even tension throughout and shall be securely fastened off.

**8.2** The general workmanship & finish shall be of a high standard and similar to sealed sample held with AHSP.

## **9.0 ADVANCE SAMPLE**

**9.1** Advance Sample Qty 04 No should be submitted to the Controller, CQA (T&C), Ashok Path, Kanpur-208004 for approval prior to the commencement of bulk manufacture from those firms who have not supplied the stores during last three years. The Advance samples must be submitted to AHSP within 45 days from issuing date of SO and AHSP to issue bulk production clearance within 60 days from the date of receipt of advance samples.

**9.2** Testing of samples will be carried out at the designated AHSP Labs, when test facilities are not available, facilities of Govt labs/ NABL Accredited Labs will be utilized. Testing charges shall be borne by the Vendor.

**9.3** The AHSP shall carry out testing and evaluation of Advance Samples and forward the recommendation of Bulk Production Clearance (BPC) to the Purchase Officer.

## **10.0 PRE-INSPECTION BY THE PRODUCER**

### **10.1 PRE-INSPECTION CLAUSE.**

**10.1.1** The basic fabric will be pre-inspected at the premises of the manufacturing firms by the SQAE (GS) of the Area concerned where every meter of the fabric will be stamped with the Quality Assurance Officer's Acceptance Marks. No other fabric will be permitted for the fabrication of the subject item.



10.1.2 The garniture and other items required for fabrication of the subject store will be of acceptable quality as laid down in the governing specification. Testing of the garniture items will be carried out by the Quality Assurance Officer from the made-up store or from the production line.

10.1.3 Stage inspection shall be the responsibility of the contractor. However, the QA officer or his authorized representative shall be accorded access to any part of the factory premises to satisfy during his visit that all process of production & storage are being followed.

10.1.4 Manufacturer /Contractors must satisfy themselves that the stores are in accordance with the terms & conditions of the contract and fully conform to the required specification by carrying out a thorough pre-inspection of each lot before actually tendering the same for inspection to the Quality Assurance Officer nominated under the terms of the contract. A declaration by the contractor that necessary pre- inspection has been carried out on the stores tendered will be submitted along with the challan. The declaration will also indicate the method followed in carrying out a thorough pre-inspection showing the features checked/tested and will have the test certificate from Govt/NABL accredited Lab attached to the challan/declaration.

10.1.5 If the QA officer finds that pre-inspection of the consignment as required above has not been 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 specification requirements when tested in accordance with the methods mentioned against each in this specification.

11.2 The accepted stores shall be marked with facsimile of acceptance mark near the marking label using indelible ink.

## **12.0 SAMPLING PROCEDURE**

12.1 Lot size is restricted to 3200 Nos.

12.2 The supplier shall offer the stores systematically 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.

**12.4** On having satisfied with the preliminary examination, samples required for laboratory test/examination shall be drawn as per column-5 of the table. The samples for lab testing (Col-5) will be drawn from Col-2 adopting random sampling.

**PERMISSIBLE NUMBER BASED ON 4% AQL, AUTHORITY IS: 2500-**

**(Pt-I): 2000 / ISO: 2859-1999(Pt-1)**

Lots Size in numbers	Sampling Plan						
	Visual & dimensional examination			Laboratory tests			
	at the time of sampling (L-I)		at Bulk QA stage (L-II)	Physical Parameters (S-4)		Chemical Parameters (S-2)	
	Sample Size	Acceptance No.	Sample Size	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

**Note:-**

- (i) Sampling officer will select sample units randomly and select one item from each sampling unit i.e as per one bundle/package/bale so as to make desired sample size as given in column (2) for visual examination and QAIR will be prepared by him.
- (ii) Sample for lab testing shall be drawn as per col (5) from sample drawn as col (2).
- (iii) Sample for chemical testing shall be drawn from physical test.
- (iv) Acceptance No. in column (6) is inclusive of Acceptance No. mentioned in column (8).
- (v) L: General Inspection Level and S: Special Inspection Level.

### **13.0 CRITERIA FOR CONFORMITY**

13.1 The lot shall be considered to be in conformity with the required standard, if the samples drawn for lab test, are found satisfactory and are also satisfactory in regard to visual parameters.

### **14.0 TEST METHOD**

14.1 The basic material and garniture used shall fully conform to the specification requirements when tested as per method laid down in the relevant specification.

14.2 Specified test methods as per clause 5.1.

### **15.0 WARRANTY**

15.1 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

### **16.0 MARKING**

16.1 Prior to being offered for inspection of shelter canvas bivouac complete shall be legibly and indelibly marked in 2.5 cm character with the DS Cat No., Nomenclature, Manufacturer Name, Initial or Recognized Trade Mark and Year of Manufacture. Marking on store shall be done by using suitable ink approved by the QA officer.

## 17.0 PACKING

### 17.1 PACKING MATERIAL

17.2 The following material shall be used in the packing of the store:-

S.NO.	MATERIAL	PARTICULARS
(i)	Polythene film, 0.04 mm thick	IS: 2508-1984 Amd-3 RA -2008
(ii)	Twine, jute, 3ply	IS: 1912-1984 Amd-1 RA--2007
(iii)	Cloth 'Cee' heavy Or Cloth Hessian (229g/m <sup>2</sup> a 16 percent contract regain)	IS: 3751-1993-Amd-1 RA-2010 Or IS: 2818 (Par-2)-1971 Amd-4 RA -2010

17.3 METHOD The store shall be supplied in new, clean, dry and sound condition.

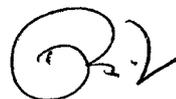
17.3.1 The unit pack of one shelter shall be suitably folded in a way to make size to place the pack inside the bag tent. (Bag tent as per drawing sheet no.10).

17.3.2 One unit pack shall then be wrapped with an inner layer of polythene film of a 0.04 mm thickness and an outer layer of cloth Cee heavy or double layer of cloth Hessian (medium) to form a compact bale. The overlapping of outer layer of cloth Cee heavy or cloth Hessian shall be such it can be properly and securely sewn around the bale.

17.3.3 The bale shall be stitched with double 3 ply twine jute with not less than 6 stitches per decimeter, taking care not to pierce the contents of the bale during stitching.

17.3.4 Before dispatch each package shall be legibly marked by stencil using indelible marking ink/paint showing the following details:-

- (i) Nomenclature, Cat/part No.
- (ii) Qty packed in the in he package
- (iii) Inspection Note No. & date.
- (iv) Name & address of consignee.
- (v) Firm Name/Trade mark.
- (vi) Contract No.
- (vii) Package Nos.



**18.0 DEFENCE STORE CATALOGUE NO.**

**18.1** The store covered by this specification shall bear the following DS No.

<u>Nomenclature</u>	<u>DS CAT No.</u>
Shelter Canvas Bivouac Complete.	J1/8340-000662
Shelter Canvas Bivouac	J1/8340-000665
Bag Ten	J1/8340-000663
Bag Tent Pin	J1/8340-000664

**19.0 DRAWINGS/SKETCHES**

**19.1** Fourteen drawing plates are attached to this specification.

**20.0 SUGGESTION FOR IMPROVEMENT**

**20.1** This specification is live document and subject to change/updating. Any suggestion for improvement of this document may be sent to the Controller, CQA (T&C), Kanpur.

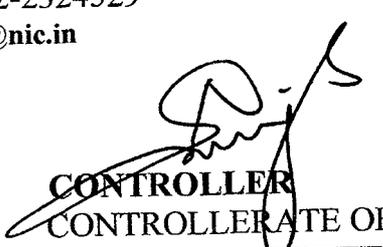
CONTROLLER  
CONTROLLERATE OF QUALITY ASSURANCE  
TEXTILE AND CLOTHING  
MINISTRY OF DEFENCE  
ASHOK PATH  
KANPUR-208004

Fax and Tele- 0512-2324529  
E-mail :cqatc-dgqa@nic.in

Date:

13 August 2015

Kanpur

  
CONTROLLER  
CONTROLLERATE OF QUALITY  
ASSURANCE (TEXTILE AND CLOTHING)  
ASHOK PATH, KANPUR-208004





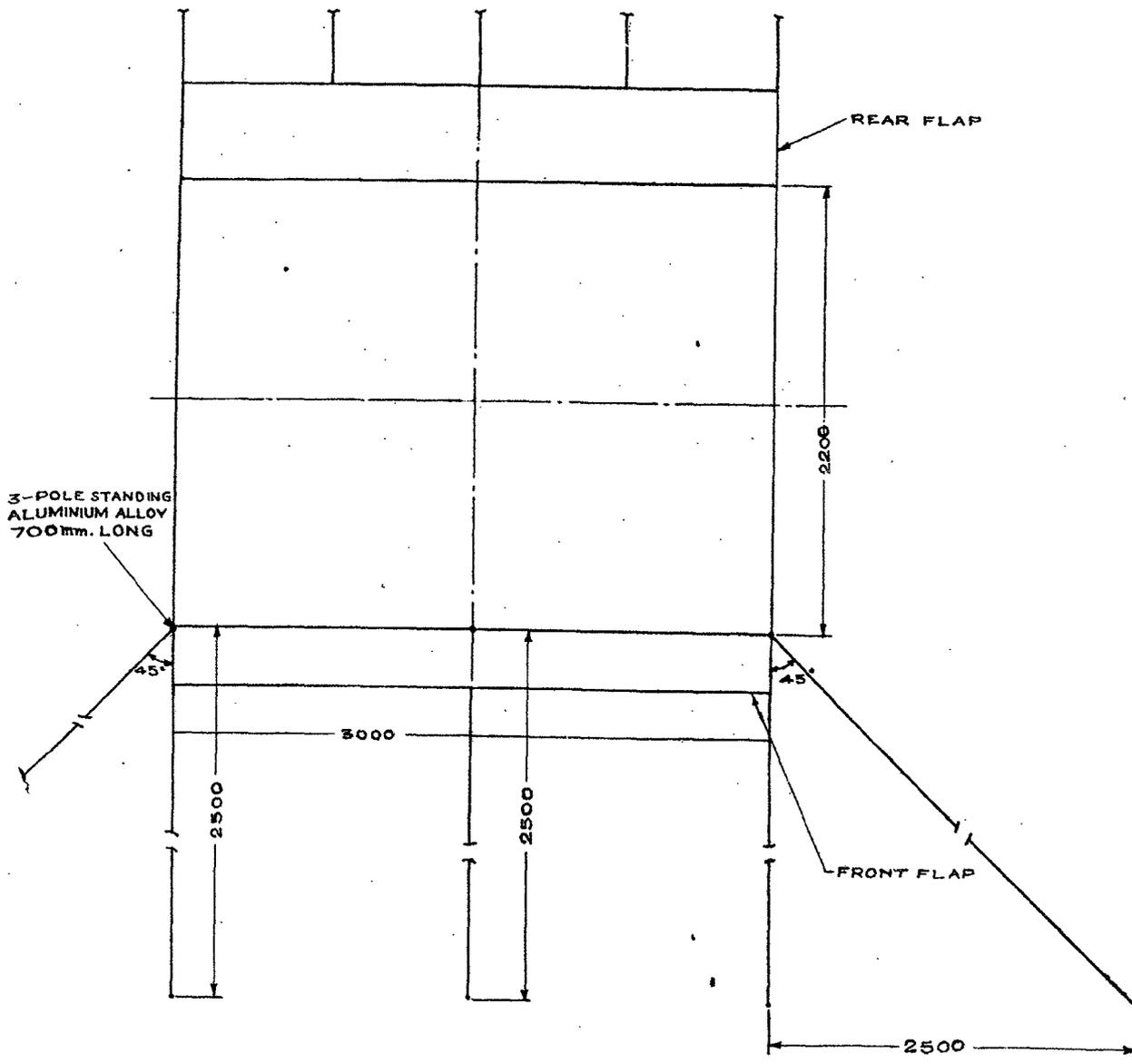
J1/8340-000662... **SHELTER CANVAS BIVOUAC COMPLETE**

J1/8340-000665... SHELTER CANVAS

J1/8340-000663... BAG TENT

J1/8340-000664... BAG TENT PIN

**PITCHING PLAN**



ALL DIMENSIONS ARE IN mm



DRN.  
Ajay Kumar  
JTO (D)

PSD.  
GO-TC/5

APP.  
DC-TC/5

SPECN No. PROV/IND/TC/0027 (a)

SHEET No. 2 OF 13

# J<sub>1</sub>/8340-000662-----SHELTER CANVAS BIVOAC COMPLETE

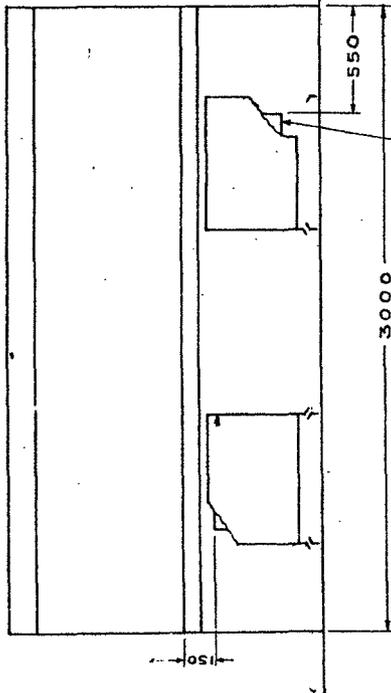
J<sub>1</sub>/8340-000665-----SHELTER CANVAS

J<sub>1</sub>/8340-000663-----BAG TENT

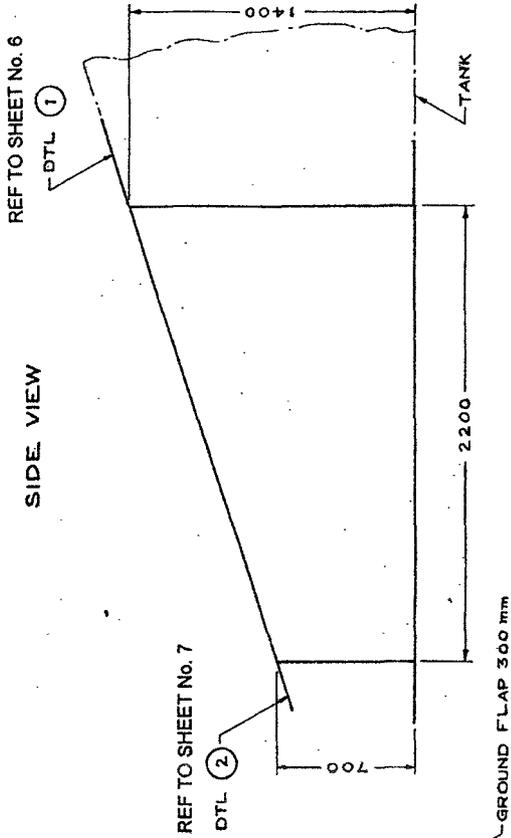
J<sub>1</sub>/8340-000664-----BAG TENT PIN

## SHELTER CANVAS

FRONT VIEW

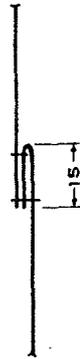


SIDE VIEW



4- WINDOWS, FOR DETAIL  
SEE SHEET No. 9.

SECTION OF JOINT  
1:1



NOTE:-

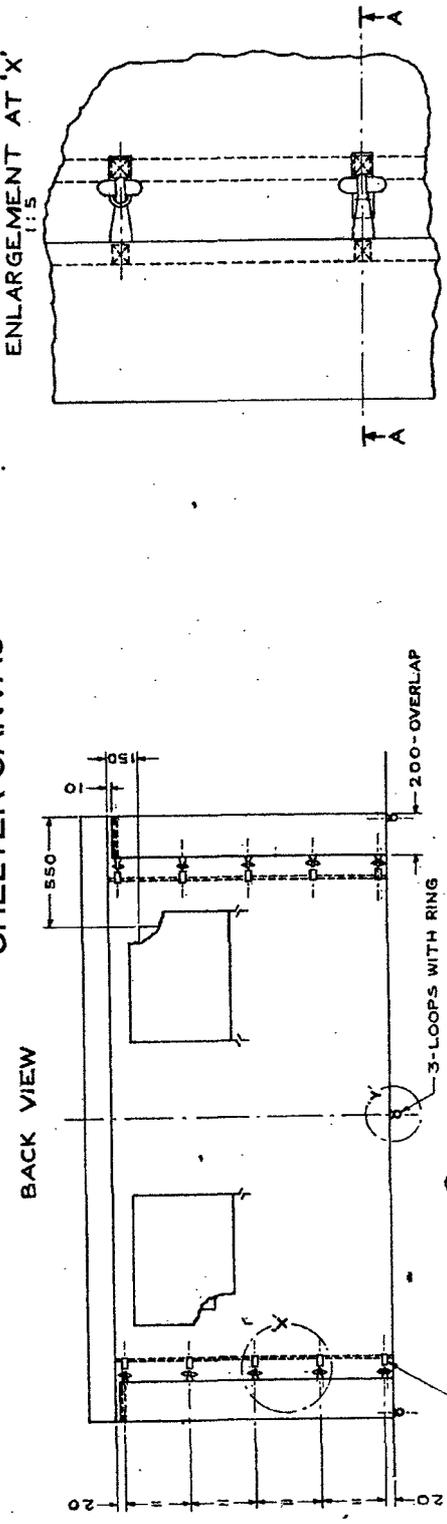
1. ALL STITCHINGS WITH MTL (4) UNLESS OTHERWISE STATED, 20-30 STITCHES PER 10 mm
2. ALL TURN-INS 15 mm UNLESS OTHERWISE STATED

ALL DIMENSIONS ARE IN mm

	DRN. Ajay Kumar JTO (D)	PSD. 	APP. 
		BO-TC/5	BO-TC/5

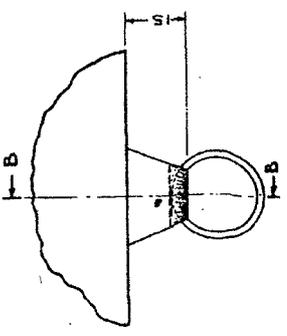
**SHELTER CANVAS BIVOAC COMPLETE**  
 J1/ 8340-000662 ----- SHELTER CANVAS BIVOAC COMPLETE  
 J1/ 8340-000665 ----- SHELTER CANVAS  
 J1/ 8340-000663 ----- BAG TENT  
 J1/ 8340-000664 ----- BAG TENT PIN

**SHELTER CANVAS**

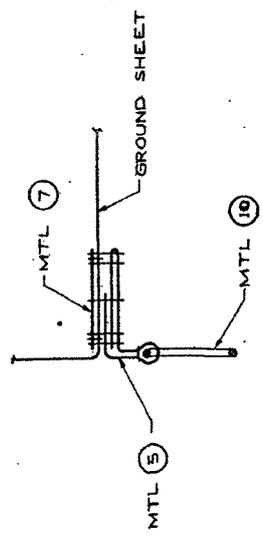


5-LOOPS OF MTL 5 x 80 mm PROVIDED ON OUT SIDE & IN SIDE FOR ENGAGEMENT WITH TOGGLES MTL 11

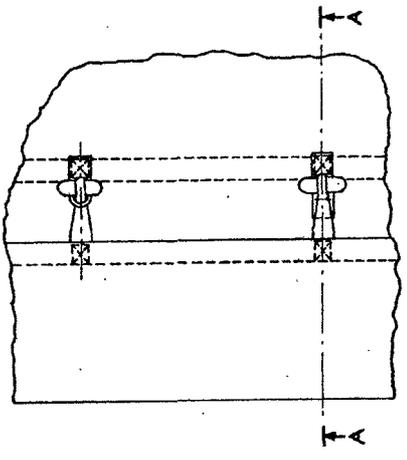
**ENLARGEMENT AT 'Y'**  
1:1



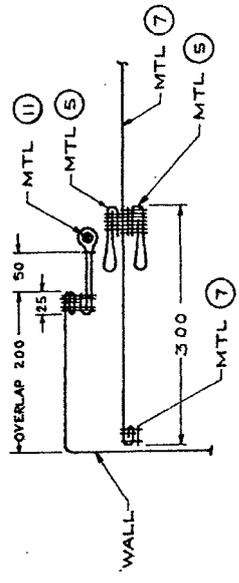
**SECTION BB**



**ENLARGEMENT AT 'X'**  
1:5



**SECTION AA**



**NOTE:-**

1. ALL STITCHINGS WITH MTL 4 UNLESS OTHERWISE STATED, 20-30 STITCHES PER 10 mm.
2. ALL TURN-INS 15 mm UNLESS OTHERWISE STATED.

ALL DIMENSIONS ARE IN mm

DRN. Ajay Kumar JTO (D)	PSD. GO-TC/5	APP. BC-TC/5	

SPECN No. PROV/IND/TC/0027 (a)

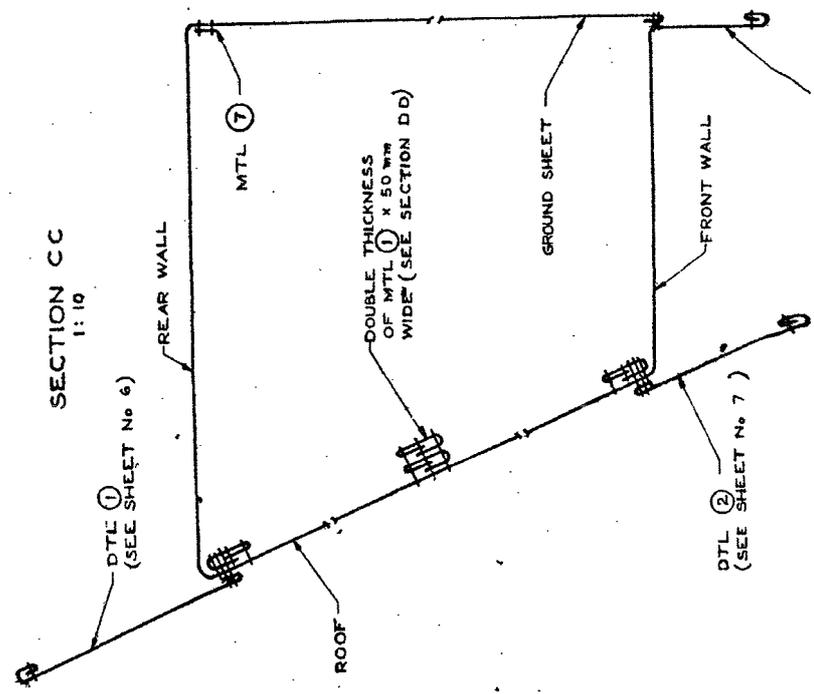
J<sub>1</sub>/8340-000662-----SHELTER CANVAS BIVOAC COMPLETE

J<sub>1</sub>/8340-000665-----SHELTER CANVAS

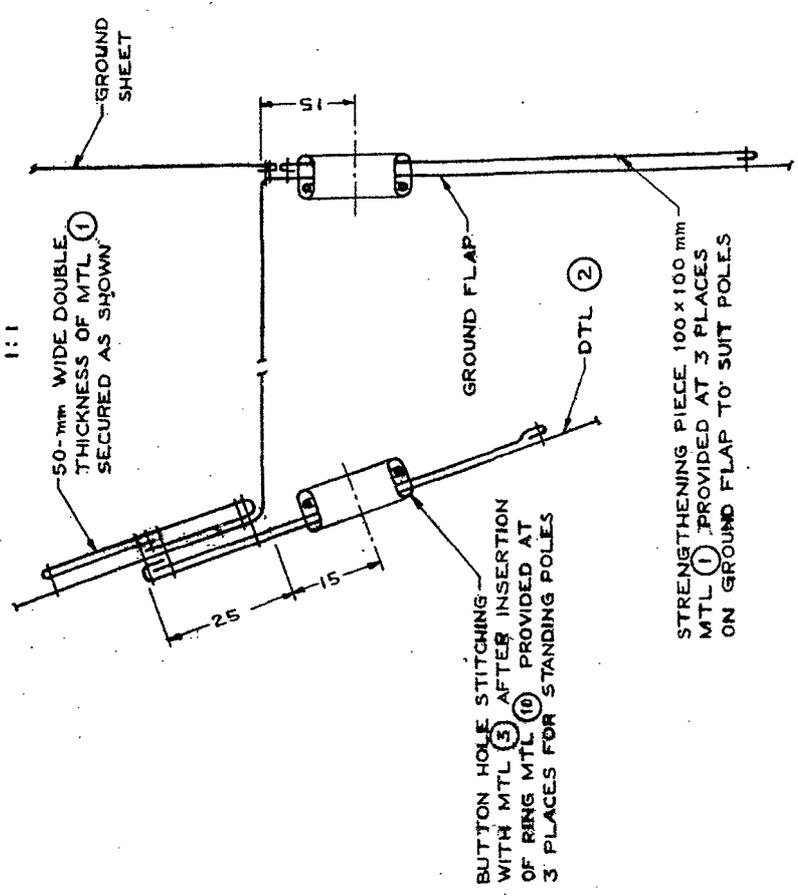
J<sub>1</sub>/8340-000663-----BAG TENT

J<sub>1</sub>/8340-000664-----BAG TENT PIN

SHELTER CANVAS



SECTION DD  
1:1



ALL DIMENSIONS ARE IN mm

	DRN. Ajay Kumar (no. 01)	PSD. 	APD. 
		SO-TC/5	DC-TC/5

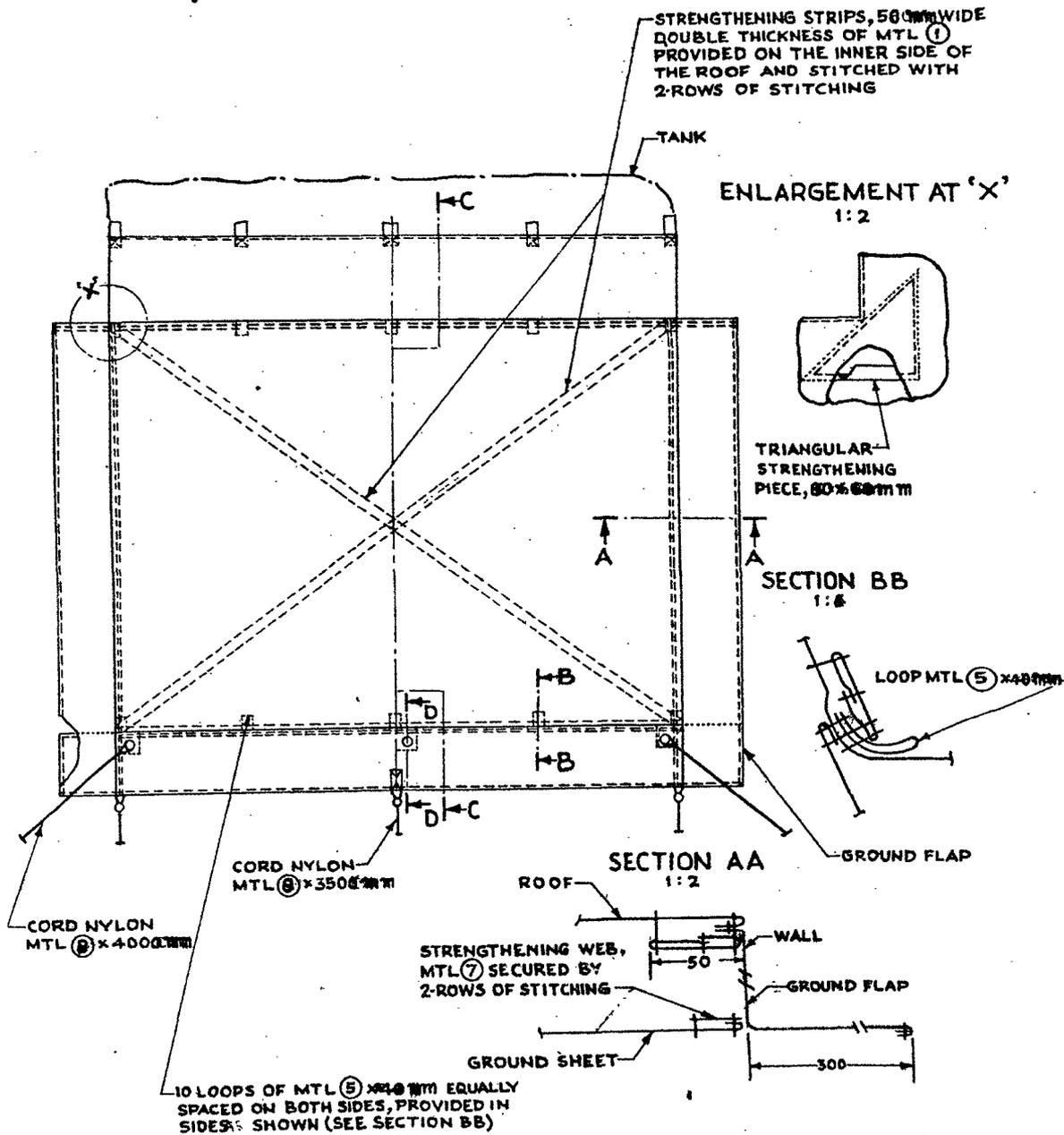
J1/8340-000662... **SHELTER CANVAS BIVOAC COMPLETE**

J1/8340-000665... SHELTER CANVAS

J1/8340-000663... BAG TENT

J1/8340-000664... BAG TENT PIN

**SHELTER CANVAS**



NOTE :-1 SECTION CC & SECTION DD SEE SHEET No 4

2 ALL STITCHINGS WITH MTL (4) UNLESS OTHERWISE STATED, 20-30 STITCHES PER 10 mm

3 ALL TURN-INS 15 mm UNLESS OTHERWISE STATED

ALL DIMENSIONS ARE IN mm

	DRN	PSD	APD.
	Ajay Kumar JTO (D)	GO-TC/5	DC-TC/5

SPECN No. PROV / IND/TC/0027 (a)

**SHELTER CANVAS BIVOUC COMPLETE**

- J1/ 8340-000662 ----- SHELTER CANVAS
- J1/ 8340-000665 ----- SHELTER CANVAS
- J1/ 8340-000663 ----- BAG TENT
- J1/ 8340-000664 ----- BAG TENT PIN

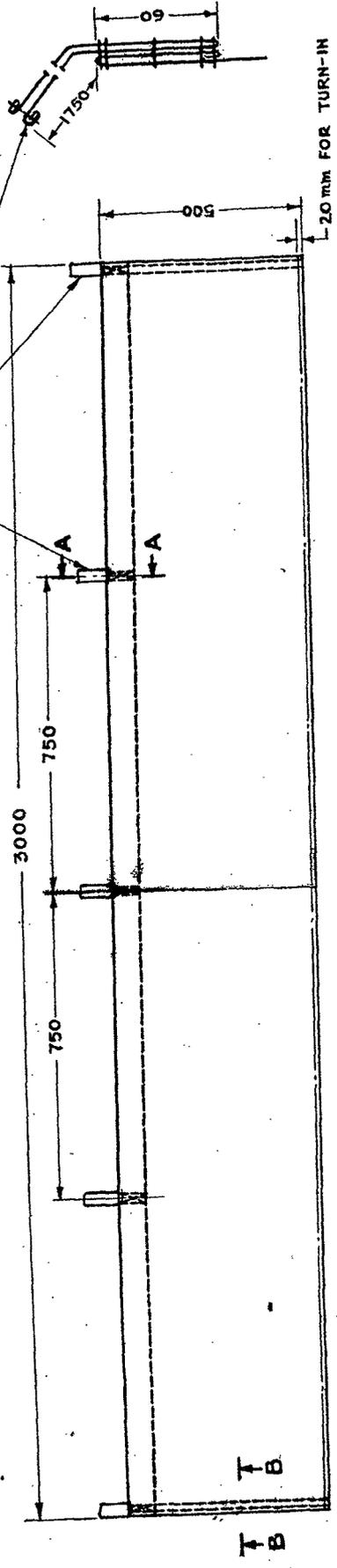
**SHELTER CANVAS**

**REAR FLAP (DTL-1)**

1-OFF  
MTL ①

5-STRAPS MTL ⑦ PROVIDED FOR TYING WITH TANK FREE-ENDS TURNED-IN AND STITCHED.

**SECTION AA**  
1:2



**SECTION BB**  
1:2

MTL ⑦

**NOTE:-** 1. ALL STITCHINGS WITH MTL 4 UNLESS OTHERWISE STATED, 20-30 STITCHES PER 10 mm  
2. ALL TURN-INS, 15 mm UNLESS OTHERWISE STATED

ALL DIMENSIONS ARE IN mm

	DRN. Ajay Kumar JTO (D)	PSD. 	APB 
		502 C/5	DC-1015

SPECN No. PROV / IND/TC/0027 (a)

SHEET No. 7 OF 13

# J1/ 8340-000662 ----- SHELTER CANVAS BIVOAC COMPLETE

J1/ 8340-000665 ----- SHELTER CANVAS

J1/ 8340-000663 ----- BAG TENT

J1/ 8340-000664 ----- BAG TENT PIN

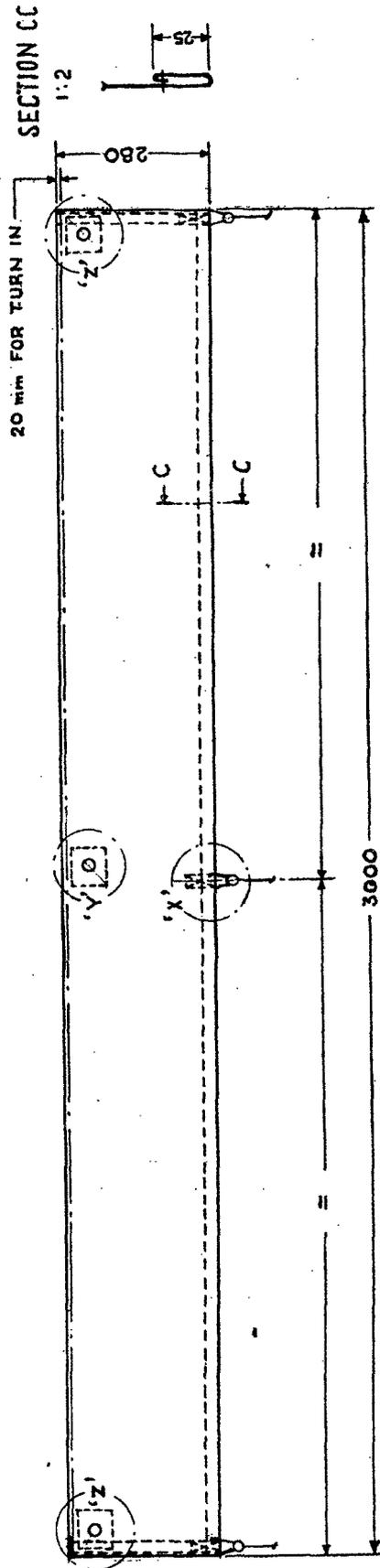
## SHELTER CANVAS

FRONT FLAP (DTL-2)

1-OFF

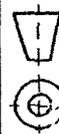
MTL 1

ENLARGEMENT 'X', 'Y', 'Z' - REF SHEET No. 8



**NOTE :-** (i) ALL STITCHINGS WITH MTL (A) UNLESS OTHERWISE STATED  
 20-30 STITCHES PER 10 mm  
 (ii) ALL TURN-INS - 15 mm UNLESS OTHERWISE STATED.

ALL DIMENSIONS ARE IN mm



DRN. Ajay Kumar (J1/01)

PSD. GOF/TC/JS

APPD. DC-TC/JS

J1/8340-000662... **SHELTER CANVAS BIVOUC COMPLETE**

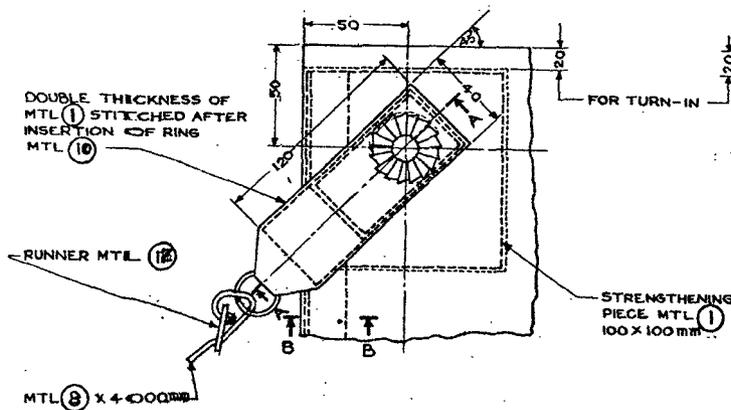
J1/8340-000665... SHELTER CANVAS

J1/8340-000663... BAG TENT

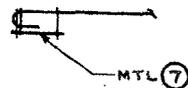
J1/8340-000664... BAG TENT PIN

**SHELTER CANVAS**

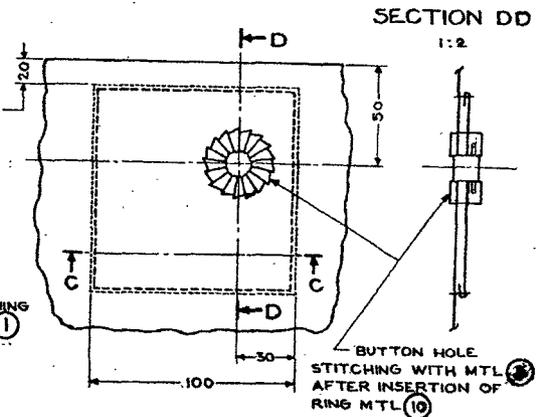
ENLARGEMENT AT 'Z'



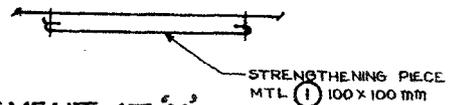
SECTION BB  
1:2



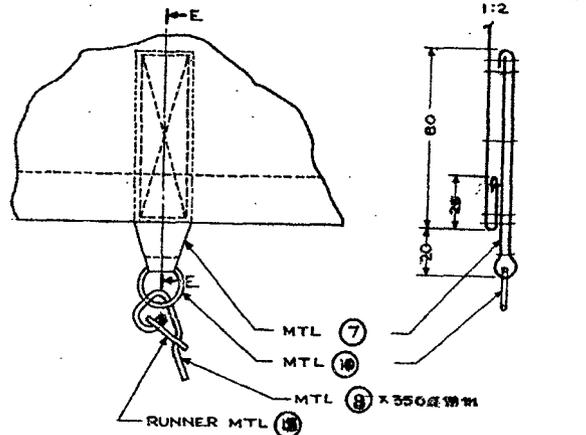
ENLARGEMENT AT 'Y'



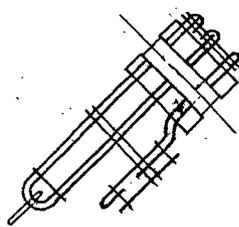
SECTION CC  
1:2



ENLARGEMENT AT 'X'



SECTION AA  
1:2



**NOTE:-**

1. ALL STITCHINGS WITH MTL 4 UNLESS OTHERWISE STATED, 20-30 STITCHES PER 10 mm
2. ALL TURN-INS 15 mm UNLESS OTHERWISE STATED

ALL DIMENSIONS ARE IN mm

	DRN Ajay Kumar JTO (P)		PSD 80-TC/5		APD 2 DC-TC/5
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J<sub>1</sub>/8340-000662 ----- SHELTER CANVAS BIVOJAC COMPLETE

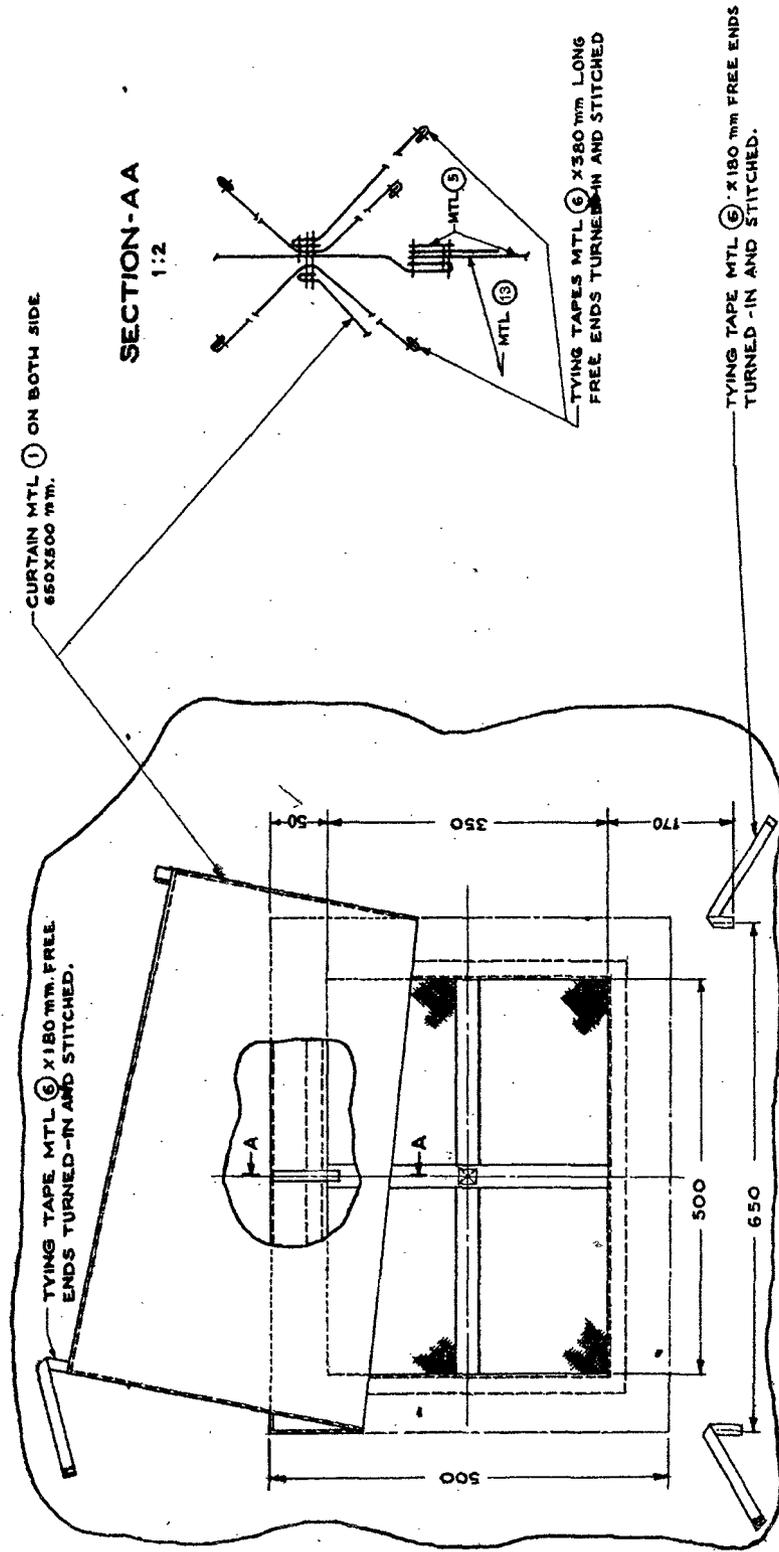
J<sub>1</sub>/8340-000665 ----- SHELTER CANVAS

J<sub>1</sub>/8340-000663 ----- BAG TENT

J<sub>1</sub>/8340-000664 ----- BAG TENT PIN

DETAIL OF WINDOW SHELTER CANVAS

1:5



NOTE: 1- ALL STITCHINGS WITH MTL ④ UNLESS OTHERWISE STATED, 20-30 STITCHES PER 10 mm.  
2- ALL TURN-INS 15 mm UNLESS OTHERWISE STATED.

ALL DIMENSIONS ARE IN mm

	DRN		PSD		APCD
	Ajay Kumar				DC-TC/5
	JTO (P)				



SPECN No. PROV/INDTC/0027 (a)

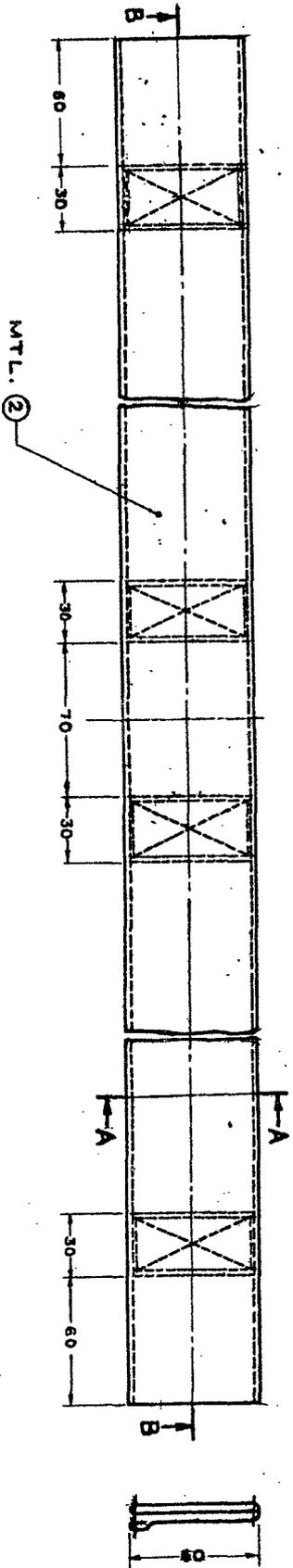
SHEET No. 11 OF 13

# SHELTER CANVAS BIVOUC COMPLETE

J./8340-000662-----SHELTER CANVAS  
J./8340-000665-----SHELTER CANVAS  
J./8340-000663-----BAG TENT  
J./8340-000664-----BAG TENT PIN

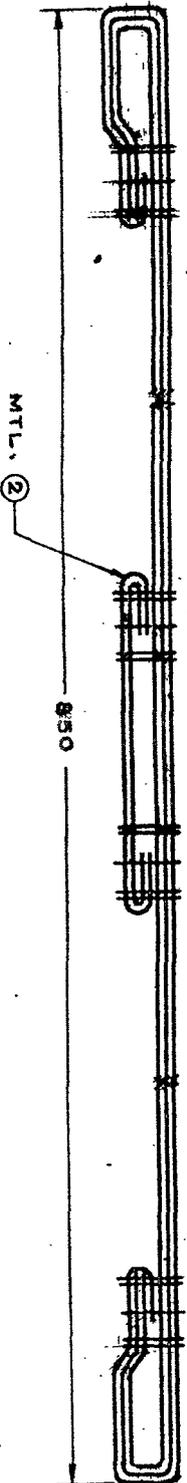
BAG TENT

STRAP (DTL-A)  
1-OFF



SECTION BB

SECTION AA



ALL DIMENSIONS ARE IN mm



DRN  
Ajay Kumar  
no. (0)



PSD  
GOT/C/S  
APD  
DC-T/C/S

NOTE:-  
ALL STITCHINGS WITH MTL. ③, 20-30 STITCHES PER 100MILLIMETRES

SPECN No. PROV/INDT/C/0027 (a)

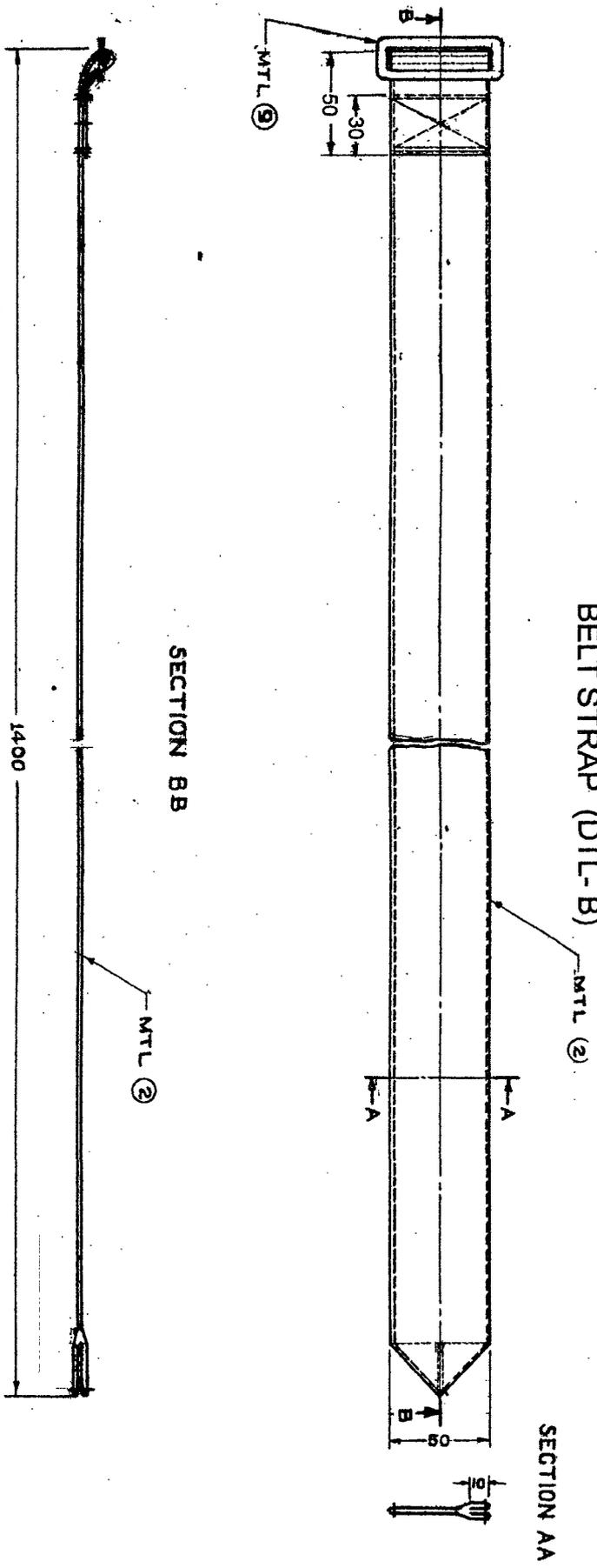
SHEET No. 12 OF 13

# J1/8340-000662.....SHELTER CANVAS BIVOAC COMPLETE

- J1/8340-000665.....SHELTER CANVAS
- J1/8340-000663.....BAG TENT
- J1/8340-000664.....BAG TENT PIN

## BAG TENT

## BELT STRAP (DTL-B)



ALL DIMENSIONS ARE IN mm

	DRN		PSD		APD
Ajay Kumar		G&C/T/C/S		DC-T/C/S	

NOTE :- ALL STITCHINGS WITH MTL. ③, 20-30 STITCHES PER 100MILLIMETRES

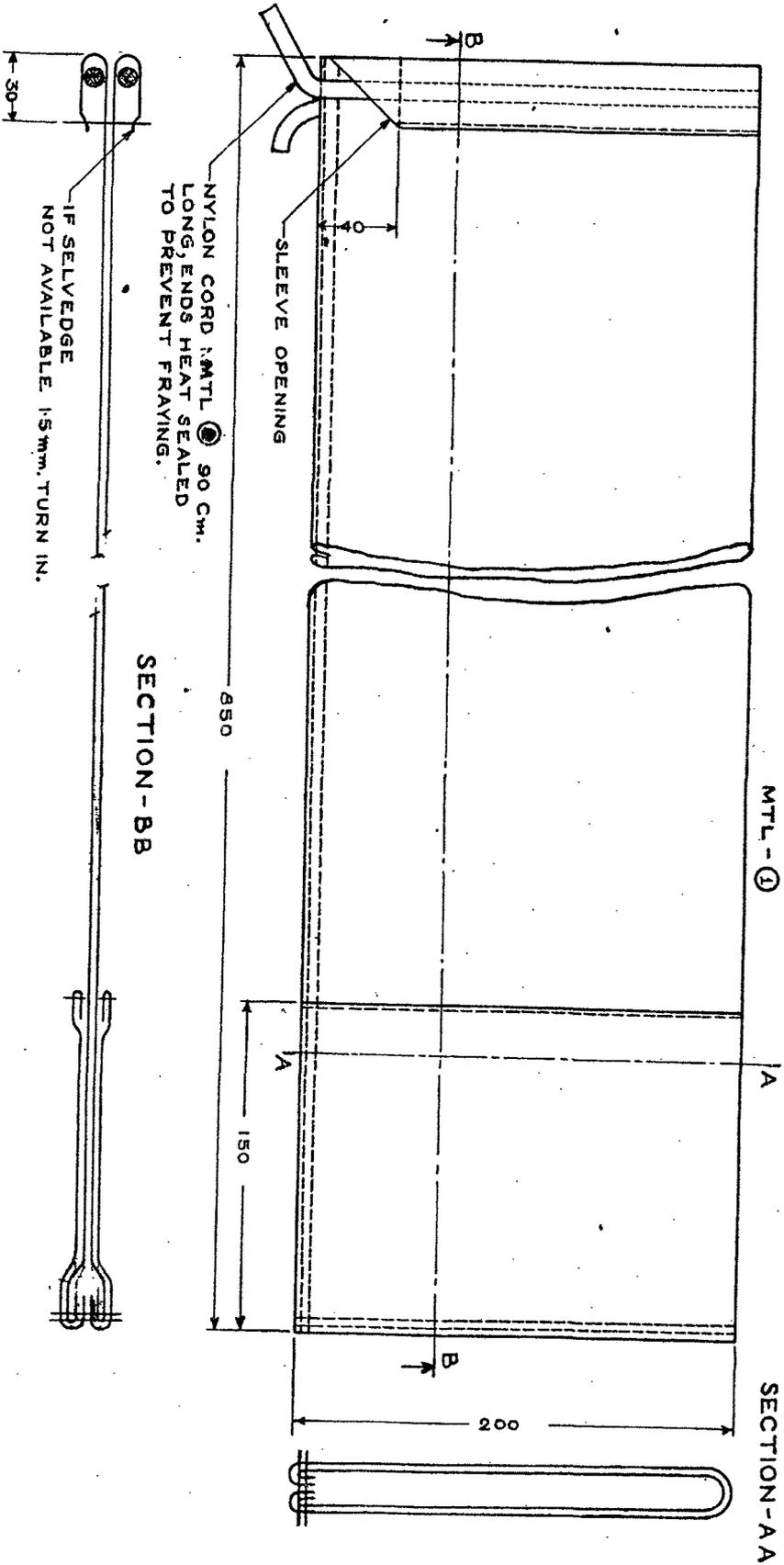
SPECN No. PROV/IND/TC/0027 (a)

# SHELTER CANVAS BIVOUCAC COMPLETE

SHEET No. 13 OF 13

J1/8340-000662 ----- SHELTER CANVAS  
 J1/8340-000665 ----- SHELTER CANVAS  
 J1/8340-000663 ----- BAG TENT  
 J1/8340-000664 ----- BAG TENT PIN

## BAG TENT PIN



ALL DIMENSIONS ARE IN mm

	DRN		PSD		APD
	Ajay Kumar JFO(0)		60TC/5		DC-TOR

NOTE:-  
 (1) ALL TURN-INS 1.5mm.  
 (2) ALL STITCHINGS EXCEPT WHERE NOTED