

हवाई वितरण अनुसंधान एवं विकास संस्थापन

भारत सरकार, रक्षा मंत्रालय,
रक्षा अनुसंधान एवं विकास संगठन
पत्र पेटी संख्या 51, स्टेशन रोड, आगरा कैंट
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Aerial Delivery Research & Development Establishment

Government of India, Ministry of Defence,
Defence Research & Development Organisation
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सभी पत्राचार निदेशक के पते पर किये
जाने चाहिए

आई.एस.ओ. 9001:2015 प्रमाणित
ISO 9001: 2015 CERTIFIED

ALL CORRESPONDENCE SHOULD BE
ADDRESSED TO **DIRECTOR**

No. ADRDE/QMS/PG/ABS/CS/01

Date: 28 February 2020

सेवा में,

क्षेत्रीय निदेशक

आर.सी.एम.ए. द्वारा एच. ए.एल (टी.ए.डी)

पोस्ट चकेरी ऐरोड्रोम,

कानपुर- 208008

*Shri Sachin
Sut Nayak
07/03/2020*

फ़ैक्स नं: 0512-2457101

SUB: CHANGE SHEETS OF BRAKE PARACHUTES

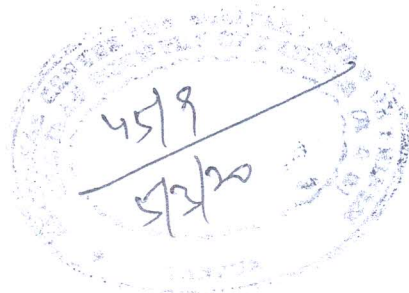
OPF(K) vide their letter No. CF-1736/SPECN/T dated 24.02.2020 requested ADRDE to amend the following drawings for the changes as mentioned in change sheet.

S. No.	Nomenclature	Drg No.	Change Sheet No.
1.	Rip Cord With Pin Brake Parachute (hybrid) 17 SQM	1.3.01-11(a)	68 dt 28.02.2020
2.	Rip Cord Large & Rip Cord Small Brake Parachute for Vijay/Rakshak/Garud Aircraft	ADRDE/282(d)	69 dt 28.02.2020
3.	Rip Cord with Loop Brake Parachute for Vijay/Rakshak Aircraft	ADRDE/292(d)	70 dt 28.02.2020
4.	Rip Cord Large Brake Parachute for PT 21UK for MiG-21 Aircraft	ADRDE/115(f)	71 dt 28.02.2020

Above change sheets are forwarded for your kind approval please.

Encl: As above

*Shri Ajlok
for m-a please
07/03/2020*






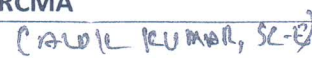
वैज्ञानिक 'एफ'
(विवेक अग्रवाल)
कृते निदेशक

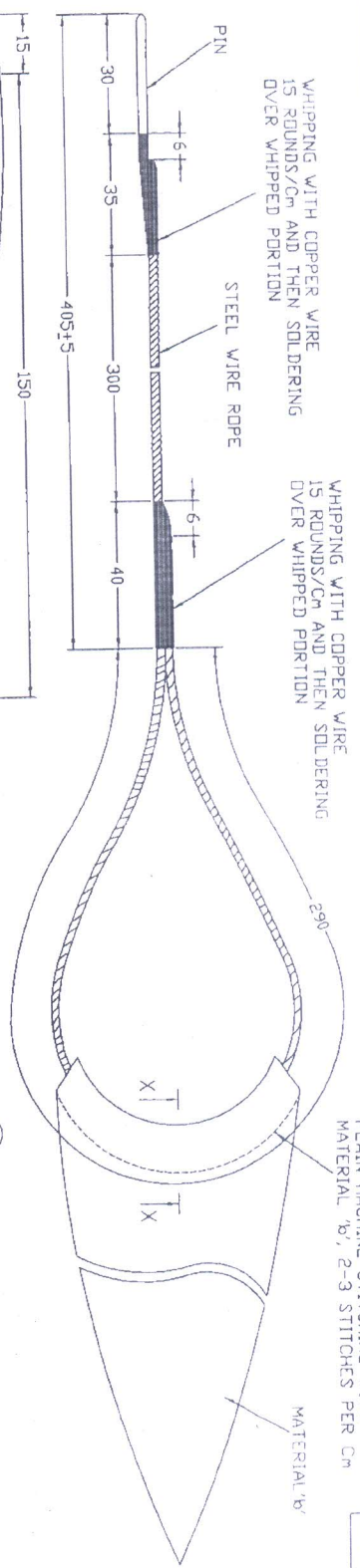
Copy to:

महाप्रबन्धक
आयुध पैराशूट निर्माणी
नेपीयर रोड, कानपुर- 208004
फ़ैक्स नं: 0512-2321436

For information please

Copy to: J105/8C(M) - 07/03/2020

CHANGE SHEET No. 68		DRAWING CHANGE SHEET		AFFECTED DRG. NO. 1.3.01-11(a)
DATE: 28/02/2020		DRAWING TITLE: RIP CORD WITH PIN BRAKE PARACHUTE (HYBRID) 17 SQM		NEW DRG. NO. 1.3.01-11(b)
SL. No.	SHEET NO. & LOCATION	EXISTING	AMENDED	REASON
1.	01 OF 01 7B	COLD DRAWN SPRING STEEL MUSIC WIRE Ø2.34 MM SPEC NO: BS:1408-M 1954 TENSILE RANGE-2	SPRING STEEL WIRE Ø2.34 MM SPEC NO.: IS:4454- 2001, PART 1,SM	SPECIFICATION OBSOLETE. MATTER DISCUSSED IN CCB MEETING DATED 17.01.2020
PREPARED BY  (ANIMESH SINGH, TO 'A') INITIATING OFFICER		APPROVED BY  (VIVEK AGRAWAL, Sc 'F') PROJECT DIRECTOR		CO — ORD. BY  06/03/20 RCMA 
AERIAL DELIVERY RESEARCH AND DEVELOPMENT ESTABLISHMENT MINISTRY OF DEFENCE AGRA CANTT				



PACKING:-

EACH RIPPED WITH PIN SHALL BE WRAPPED IN A TISSUE PAPER AND 20nos. THUS WRAPPED BE PACKED IN A SUITABLE CARTON. 10 SUCH CARTON SHALL BE PACKED IN A C.W.P. DULLED LINED WITH A PAPER PACKING WATER PROOF ONE SAMPLE IN EACH CARTON SHALL BE IDENTIFIED BY A LABEL SHOWING NOMENCLATURE, CAT. NO. OF THE STORE AND THE TRADE MARK DETAILS OF THE MANUFACTURER AND THE YEAR OF THE MANUFACTURE.

EACH CARTON SHALL BE MARKED WITH THE INITIALS OF THE MANUFACTURER BEFORE DESPATCH.

THE FOLLOWING DETAILS:-

1. NOMENCLATURE, CAT. NO. OF THE STORE AND YEAR OF THE MANUFACTURE.
2. TOTAL NO. OF PACKING CASES AND THE NO. OF INDIVIDUAL PACKINGS IN A CONSIGNMENT.
3. NO. OF CARTONS IN A EACH PACKING CASE AND THE QUANTITY IN EACH CARTON.
4. MASS OF PACKING CASE IN KG.
5. ADDRESS OF THE CONSIGNEE.
6. ADDRESS OF THE CONSIGNOR.

DEVELOPMENT OF MATL. 'A'

MATERIAL:- STEEL WIRE ROPE
 (a) NON CORRODIBLE STEEL WIRE ROPE (PERFORMED) 2mm, 7x7 CONSTRUCTION MIN. BRAKING LOAD 2450N (250Kg)

PIN :- (b) COLD DRAWN SPRING STEEL MUSIC WIRE Ø2.34mm TD
 SPECN. BS:1408-M, 1964 TENSILE RANGE-2

FINISH:- TO BE FINISHED SMOOTH, CHROMIUM PLATED TO A MIN. THICKNESS
 OF 0.012mm & CHROMATE PASSIVATED AS PER SPECN. No. IS:1572-1968 ed-12

EMBRITILEMENT:-
 PINS AFTER CADMIUM PLATING AND PRIOR TO CHROMATE PASSIVATION SHALL BE MAINTAINED AT A TEMP. OF 150°-200° C FOR HALF AN HOUR MIN. TO REMOVE HYDROGEN EMBRITILEMENT.

PERFORMANCE TEST:-
 PIN JOINT AFTER BEING SWAGED IN POSITION SHALL WITHSTAND A PULL OF 490N (50Kg)

GEN.TOL.:-
 ±0.2mm EXCEPT SPECIFIED OTHERWISE.

Rev.No.	DATE	ZONE	AUTHORITY	BRIEF RECORD	D/S	T/C	HEAD

SECTION 'X-X'
 SCALE 2:1

L. M. K.

LIST OF MATERIALS/COMPONENTS

S.No.	DESCRIPTION	QTY	UNIT	REMARKS
a	FABRIC NYLON 37gm DRANGE			
b	THREAD SEWING NYLON BONDED BS. 4.5kgf			
c	RIP CORD WITH PIN			

SCALE:- 1:1, 2:1	ADDER ASRA	DRN	RAM	PRD. OFFR.	13.01-11(a)
DIMENSIONS IN mm	GROUP:- ABS	CHD	NIROTI	GR. DIR.	
TOL.:- AS ABOVE				D I/C DBS	
MATERIAL:- AS ABOVE				APPROVED	<i>Verdy</i>
FINISH:- AS ABOVE					
HEAT TREATMENT:-					