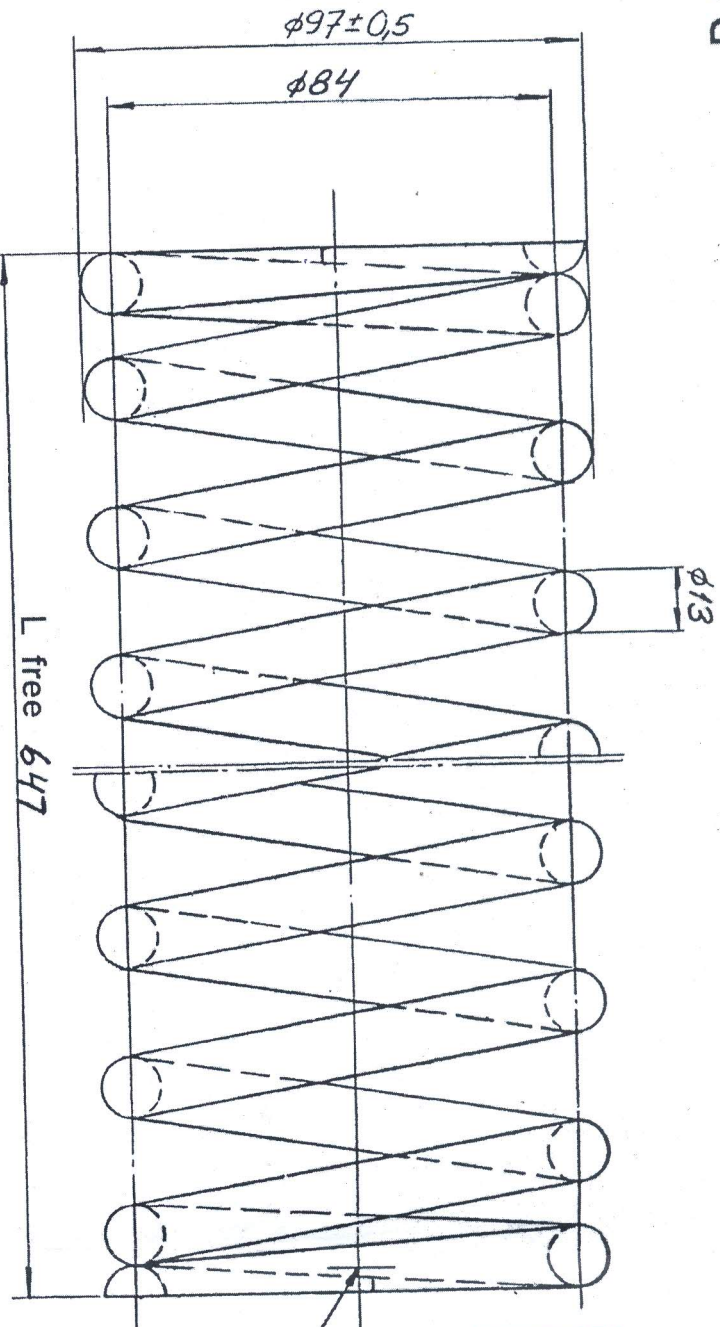


4274719 D



Number of Coils = 20 + 2.5 Non-effective coils
 Initial Load = 535 ± 50 kp at L 424 mm
 Full Load = 850 ± 80 kp at L 294 mm ($\tau = 100 \text{ kg/mm}^2$)
 Compressible to L 290 mm
 Test Specification A6042

MATERIAL:
 W3 - 8030
 OR
 IS:4454, Pt-1, 2001, Gde DM

संदर्भ हेतु
 FOR REFERENCE
 FVK
 JMM/DO.....
 12/11/2015

Initial Load
 Engarving Z13-4-3A
 The marking will be placed on the non-effective coil 180° from the end of the wire

कंपनी फोफोपरी
 संदर्भ संख्या 230100555
 दिनांक 13-09-23

Grease with W14-6
 (Based on 5174741 Original)

ORDNANCE DEVELOPMENT CENTRE
 ORDNANCE FY. KANPUR

SPRING

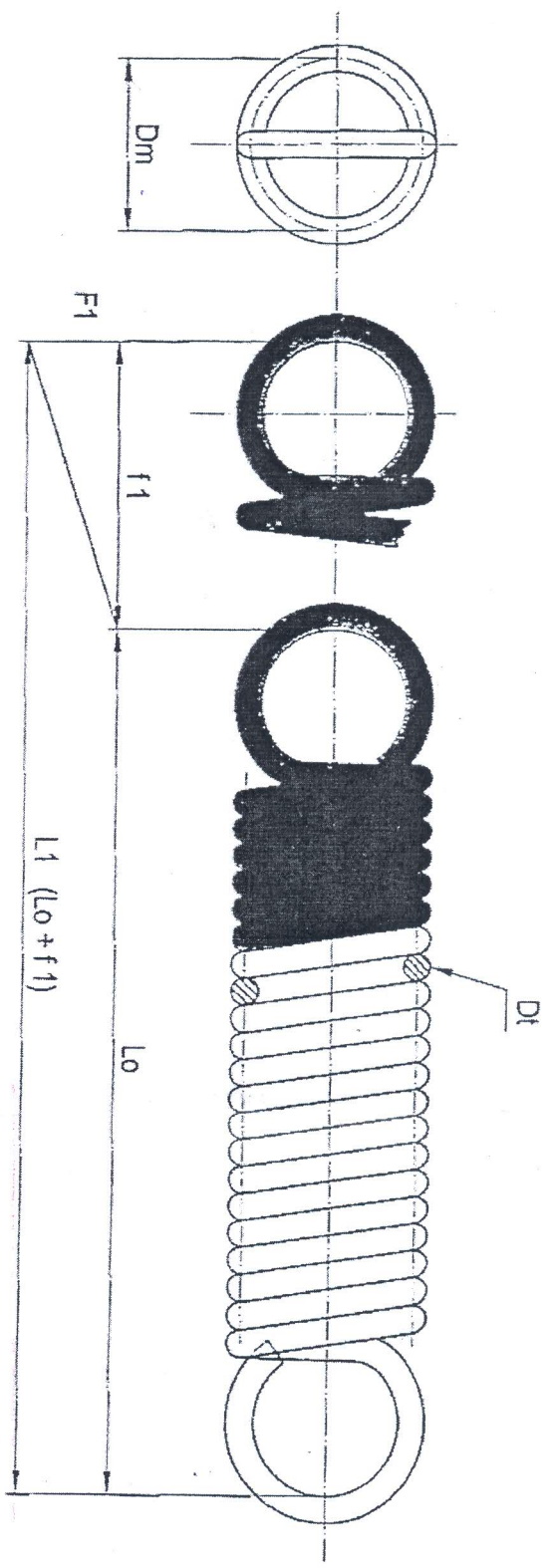
FOR 155X45 CAL DHANUSH
 FIRST ANGLE PROJECTION

DRG. No. **D 5174741**

STORE DETAILS		APPROVED		SCALE NTS		DATE: 29-06-2015	
PREPO	CHD	JMM/DO		SH1	OF 1	REVISION	A
DO/DO	DIR/ODC			DIMNS IN mm			

DA & DATE	DETAIL	INTL
REVISIONS		
3		

A 3 C D E A 2 1



- D1 = WIRE Ø = 0.63
- Dm = MEAN / EFF Ø = 3.87
- L0 = FREE LENGTH = 31.0
- f1 = DEFLECTION AT SPRING FORCE F1 = 22.6
- Nv = ACTIVE TURN / COIL = 40
- F1 = LOAD CAPACITY AT L1 = 18.3 N
- C = CONSTANT = 0.7 N/mm

TOLERANCE ON Dm = ± 0.20
 TOLERANCE ON L0 = ± 1.55
 TOLERANCE ON F1 = ± 1.464

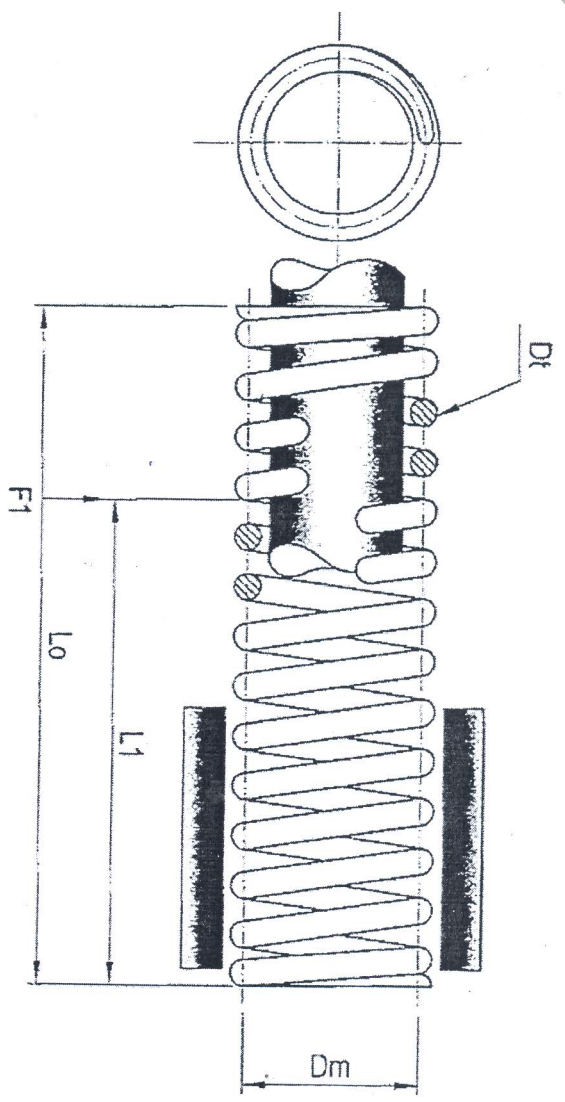
ALT. MATERIAL:
 BS : 5216-1975, Code M, Gr. 4
 OR
 IS : 4454-1981, Pt-1, Gr. 3

FOR REFERENCE
 JWM/DO

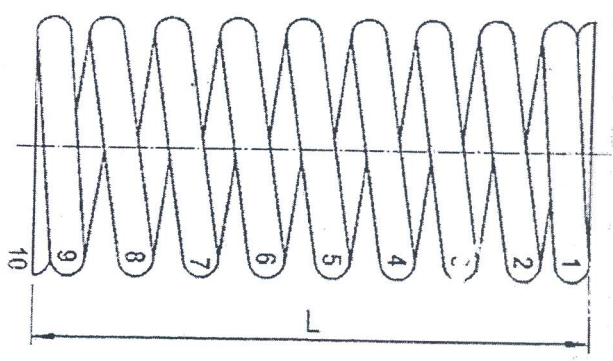
230100 556
 13-09-23

BASED ON 6365838 BOFORS
 STECE SPECIFICATION - PART No. 31110

DA & DATE	DETAIL	INTL	STORE DETAILS		ORDNANCE FY. KANPUR DESIGN OFFICE	
	REVISIONS		PREPD	JWM/DO	FOR 155 mm DHANUSH THIRD ANGLE PROJECTION	
			CHD		DRG. No. : D 6365838	SCALE: NTS
			AWM/ORD	WMM/ORD	APPROVED	SHT 1 OF 1
						DATE : 11-05-2014
						REVISION
						A



Dt = WIRE Ø = 1.6
 Dm = MEAN / EFF Ø = 12.5
 Lo = FREE LENGTH = 115.0
 L1 = LOADED LENGTH = 39.9
 Nv = ACTIVE TURN / COIL = 18.5
 F1 = LOAD CAPACITY = 135.3 N
 C = CONSTANT = 1.8 N/mm
 TOLERANCE ON Dm = ±0.35
 TOLERANCE ON Lo (5%) = ± 5.75
 TOLERANCE ON F1 (8%) = ± 10.824 N



The above figure shows the total number of turns nt (count). In this case nt is 10. Active coils (Nv) is nt - 1.5.

23 01 00 55
 13-09-23

For REFERENCE
 JWMD/O

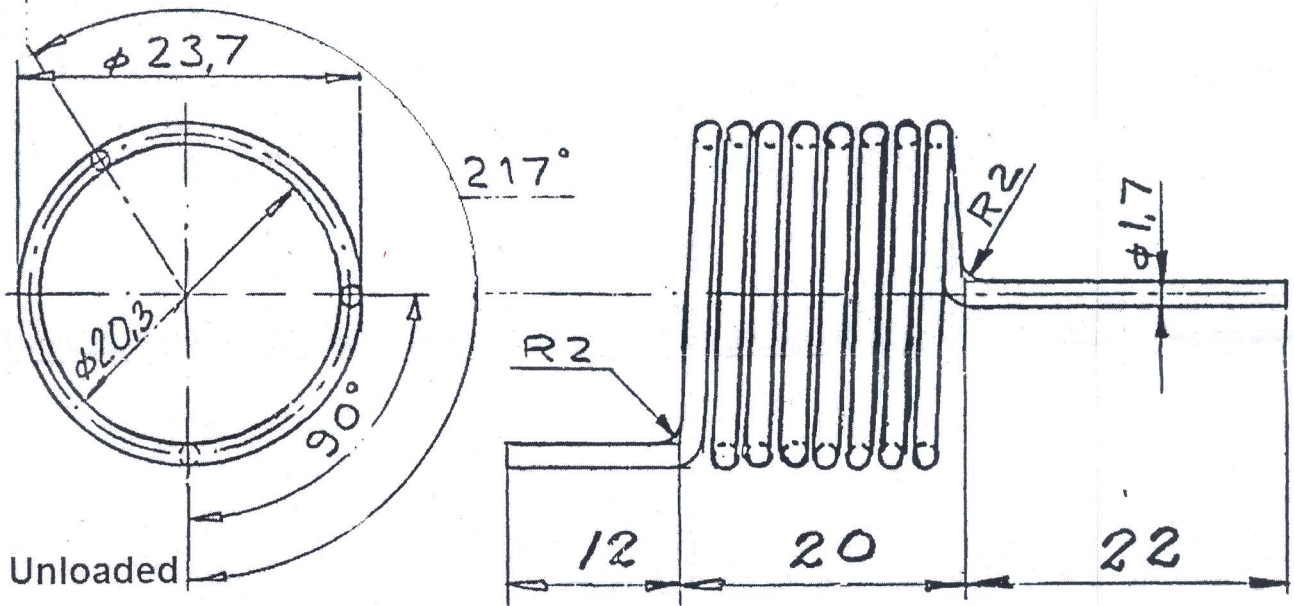
BASED ON 6365839 BOFORS
 STECE SPECIFICATION - PART No. 12490

ALT. MATERIAL :
 BS : 5216-1991, Code M, Gr. 5
 OR
 IS : 4454-1981, Pt-1, Gr. 3

DA & DATE		DETAIL		INTL		REVISIONS	
STORE DETAILS				ORDNANCE FY. KANPUR			
PREPD				DESIGN OFFICE			
CHD				FOR 155 mm DHANUSH			
JWMD/O				THIRD ANGLE PROJECTION			
APPROVED				DRG. No. : D 6365839			
AWM/ORD				SCALE: NTS			
WM/ORD				SHT 1 OF 1			
				DIMNS. IN mm			
				DATE : 11-06-2014			
				REVISION			
				A			

D 6349433

Compress



No. of Turns = $7 \frac{3}{4}$

Full Load = 5 kp at 217° compressed

सन्दर्भ हेतु
For REFERENCE
Pnk
JWM/DO... 14/7/21

MATERIAL :

SIS 1774-04

OR

IS:4454, Pt-1, 2001, Gde SM

Surface Treatment : Y051

Approx. mass : 0.005 kg

केवल निष्पत्ति हेतु
संदर्भ क्रमांक 230100 538
दिनांक 13-9-2023

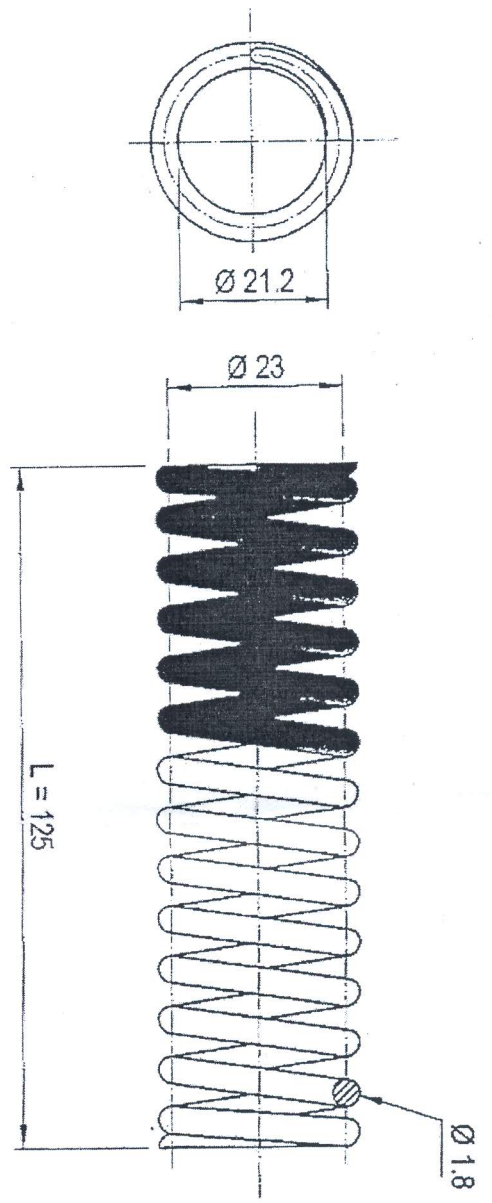
(Based on 6349433 Original)

		STORE DETAILS		ORDNANCE DEVELOPMENT CENTRE ORDNANCE FY. KANPUR	
				<h1>SPRING</h1> <p>FOR 155x45 CAL DHANUSH</p> <p>FIRST ANGLE PROJECTION</p> <p>DRG. No. : D 6349433</p>	
		PREPD	<i>sub</i>		
		CHD	<i>sub</i>		
		JWM/DO	<i>ep</i>		
		APPROVED		SCALE N T S	
				DATE : 22-08-2015	
DA & DATE	DETAIL	INTL	SHT 1 OF 1		REVISION
REVISIONS			DO/DO	DIR/ODC	A
			DIMNS. IN mm		

6439 D

WIRE Ø = 1.8
 MEAN / EFF Ø = 23.0
 FREE LENGTH = 125.0
 ACTIVE TURN / COIL = 15 + 2.5 DEAD TURNS
 INITIAL LOAD AT L 45 = 4.5 ± 0.5 kp
 FULL LOAD AT L 36 = 5 ± 0.5 kp
 (τ = 60 kp/mm²)

ALT. MATERIAL :
 BS : 5216-1975, Code HD, Gr. 3
 OR
 IS : 4454-1981, Pt-1, Gr. 2



सत्यं श्रेयं
 FOR REFERENCE
 JWM/DO.....

डिजाइन नंबर 23 0100 559
 दिनांक 13-09-23

BASED ON 6349432 BOFORS

DA & DATE		DETAIL		INTL	
REVISIONS					
STORE DETAILS			ORDNANCE FY. KANPUR		
155 X 45 CAL DHANUSH			DESIGN OFFICE		
PREPD	WJP	FOR 155 mm DHANUSH			
CHD					
JWM/DO		THIRD ANGLE PROJECTION			
APPROVED					
AWM/ORD	WMI/ORD	DRG. No. : D 6349432	DATE : 11-06-2014		REVISION
		SCALE: NTS	SH1 1 OF 1		
		DIMNS. IN mm			A