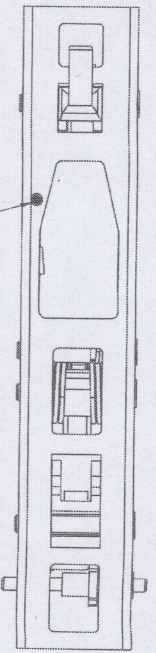
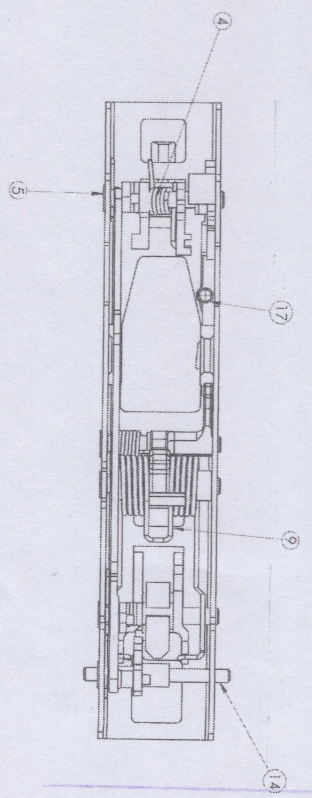
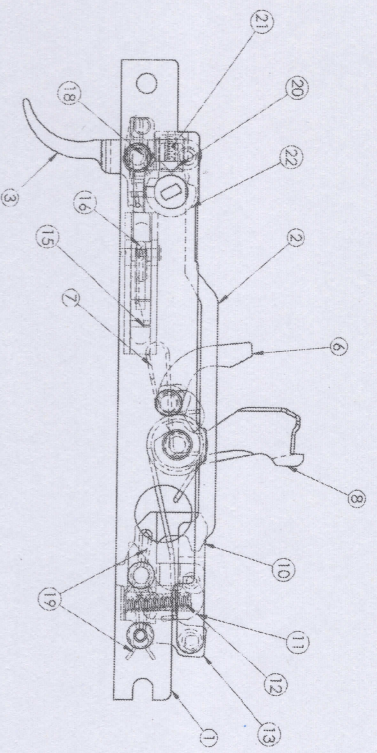


35

GENERAL TO: FINE / MEDIUM / COARSE  
 CLASS TO IS: 2102  
 DRG. CONVERSIONS CONFORM TO INDIAN STANDARDS  
 DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED



TO BE STABBED AND FILE FLUSHED



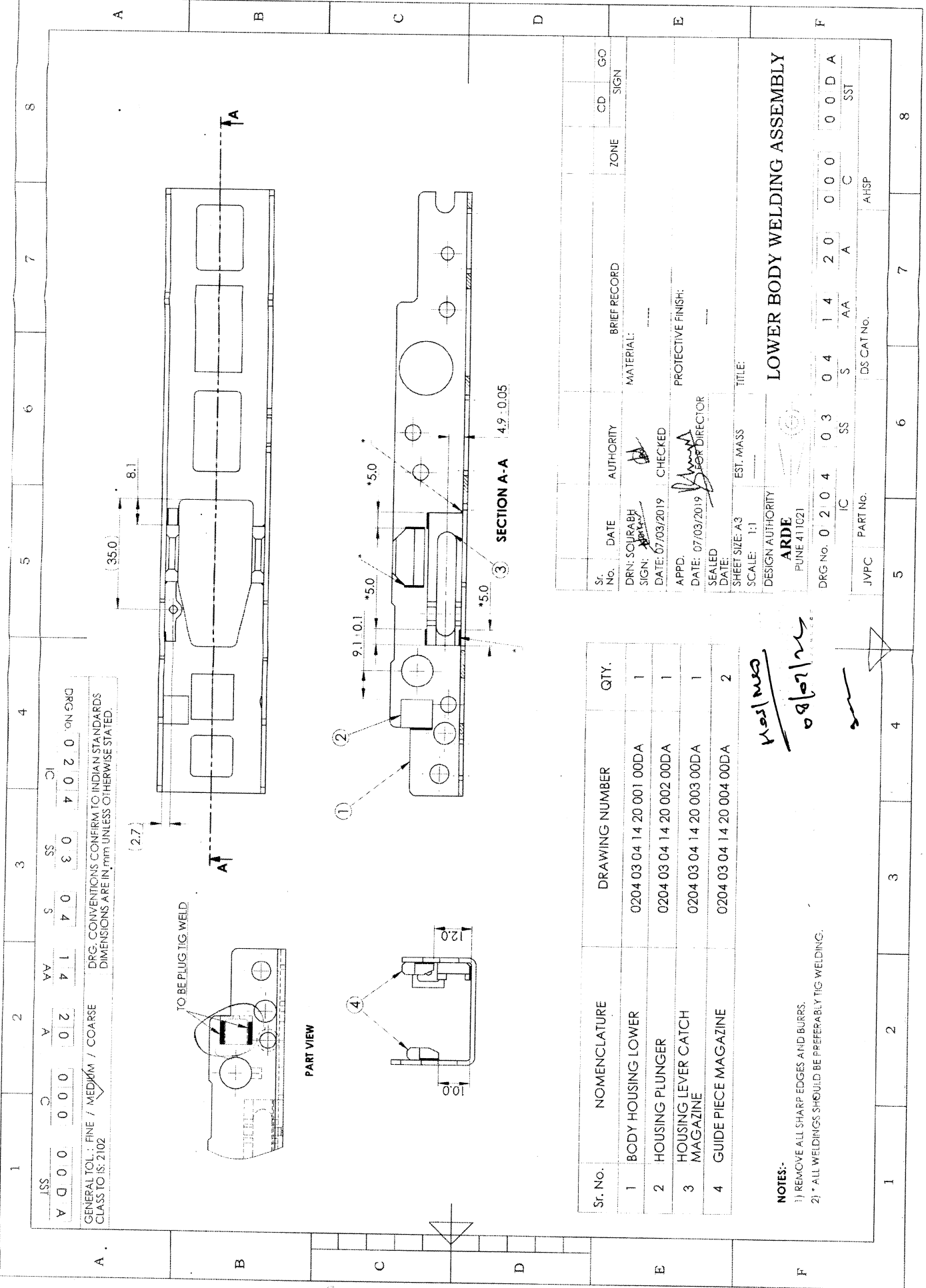
Sr. No.	NOMENCLATURE	DRAWING NUMBER	QTY.
1	LOWER BODY WELDING ASSEMBLY	0204 03 04 14 20 000 00DA	1
2	LINK	0204 03 04 02 14 001 00DA	1
3	TRIGGER FRONT	0204 03 04 02 14 002 00DA	1
4	SPRING TRIGGER FRONT	0204 03 04 02 14 003 00DA	1
5	PIN TRIGGER HAMMER SEAR SAFETY	0204 03 04 02 14 004 00DA	4
6	SEAR SAFETY	0204 03 04 02 14 005 00DA	1
7	SPRING SEAR SAFETY	0204 03 04 02 14 006 00DA	1
8	HAMMER	0204 03 04 02 14 007 00DA	1
9	SPRING HAMMER	0204 03 04 02 14 008 00DA	1
10	TRIGGER REAR	0204 03 04 02 14 009 00DA	1
11	SEAR	0204 03 04 02 14 010 00DA	1
12	SPRING SEAR	0204 03 04 02 14 011 00DA	1
13	AUTO SEAR	0204 03 04 02 14 012 00DA	1
14	PIN AUTO SEAR	0204 03 04 02 14 013 00DA	1
15	CATCH MAGAZINE	0204 03 04 02 14 014 00DA	1
16	SPRING CATCH MAGAZINE	0204 03 04 02 14 015 00DA	1
17	PIN CATCH MAGAZINE	0204 03 04 02 14 016 00DA	1
18	WIRE SPRING LOCKING PIN FRONT TRIGGER	0204 03 04 02 14 017 00DA	1
19	WIRE SPRING LOCKING REAR PINS	0204 03 04 02 14 018 00DA	2
20	PUNGER WHEEL LOCK	0204 03 04 02 14 019 00DA	1
21	SPRING PUNGER WHEEL LOCK	0204 03 04 02 14 020 00DA	1
22	WHEEL LOCK	0204 03 04 02 14 021 00DA	1

STANDARD  
 DRG. No. 0204/01/20  
 08/01/20

No. \_\_\_\_\_ DATE \_\_\_\_\_  
 AUTHORITY \_\_\_\_\_  
 DRN: SOH/ABH  
 SGN: \_\_\_\_\_  
 DATE: 07/03/2019  
 APPD: \_\_\_\_\_  
 DATE: 07/03/2019  
 REVD: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 SCALE: 1:1  
 SHEET SIZE: A2  
 EST. MASS: \_\_\_\_\_  
 TITLE: BODY HOUSING LOWER AND TRIGGER MECHANISM ASSEMBLY  
 DESIGN/AUTHOR: ARDE  
 DRAWN: ARDE  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 PROJECTIVE FINISH: \_\_\_\_\_  
 MATERIAL: \_\_\_\_\_  
 SHEET RECORD: \_\_\_\_\_  
 ZONE: \_\_\_\_\_  
 CO. SIGN. CO. CO.  
 Dwg No. 0204 03 04 02 14 021 00DA  
 PART No. \_\_\_\_\_  
 DC CAT No. \_\_\_\_\_  
 AHS# \_\_\_\_\_



29



1	2	3	4	5	6	7	8
SS	V	SS	CI				
V	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0

GENERAL TOL: FINE / MEDIUM / COARSE  
 DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS  
 DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

Sr. No.	NOMENCLATURE	DRAWING NUMBER	QTY.
1	BODY HOUSING LOWER	0204 03 04 14 20 001 00DA	1
2	HOUSING PLUNGER	0204 03 04 14 20 002 00DA	1
3	HOUSING LEVER CATCH MAGAZINE	0204 03 04 14 20 003 00DA	1
4	GUIDE PIECE MAGAZINE	0204 03 04 14 20 004 00DA	2

*Handwritten notes:*  
 1) 08/07/19  
 2) 08/07/19

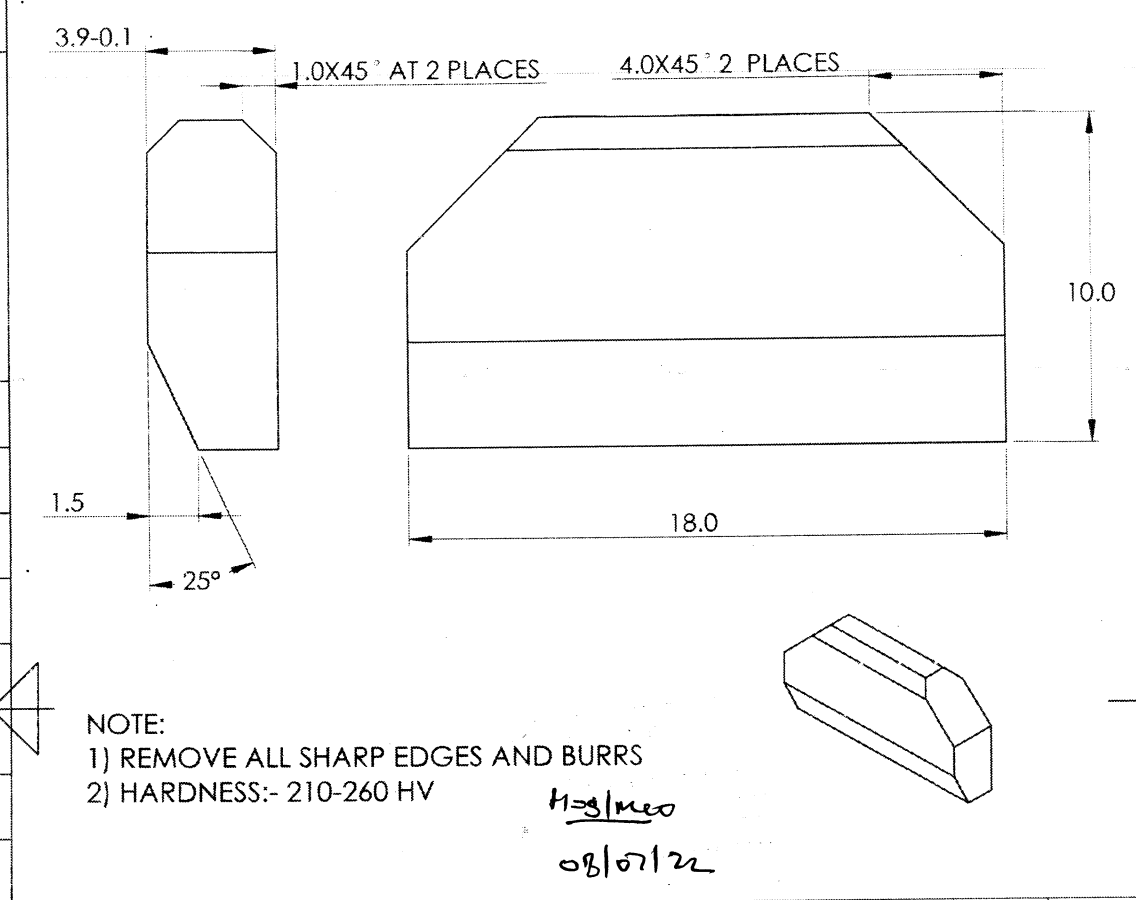
**NOTES:-**  
 1) REMOVE ALL SHARP EDGES AND BURRS.  
 2) \* ALL WELDINGS SHOULD BE PREFERABLY TIG WELDING.

Sr. No.	DATE	AUTHORITY	BREF RECORD	ZONE	CD	GO
DRN: SOURABH	DATE: 07/03/2019	CHECKED	MATERIAL:			
APPD:	DATE: 07/03/2019	DESIGN DIRECTOR	PROTECTIVE FINISH:			
SEALED	DATE:		TITLE:			
SHEET SIZE: A3	EST. MASS					
SCALE: 1:1						
DESIGN AUTHORITY:						
ARDE						
PUNE 411021						
DRG No. 0 2 0 4 0 3 0 4 1 4 2 0 0 0 0	SS	AA	A	C	0	D A
JVPC	PART No.	DS CAT No.	AHSP			
5	6	7	8			

**LOWER BODY WELDING ASSEMBLY**

DRG No. 0204 IC 0304 SS 0404 C 1414 AA 2020 A 0040 C 0004 D 0004 A

GENERAL TOL. : FINE / MEDIUM / COARSE CLASS TO IS: 2102  DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD SIGN	GO
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DRN: ANKIT  
 SIGN: *[Signature]*  
 DATE: 07/03/2019 CHECKED *[Signature]*  
 APPD. *[Signature]*  
 DATE: 07/03/2019 FOR DIRECTOR

MATERIAL:  
 STEEL TO IS:5517-1993 Gd 40C8

PROTECTIVE FINISH:  
 PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

SEALD DATE:  
 SHEET SIZE: A4  
 SCALE: 5:1  
 EST. MASS 4.51 gm

DESIGN AUTHORITY  
**ARDE**  
 PUNE 411021

TITLE:  
**GUIDE PIECE MAGAZINE**

DRG No. 0204 03 04 14 20 004 00DA  
 IC SS S AA A C SSI

JVPC PART No. DS CAT No. AHSP

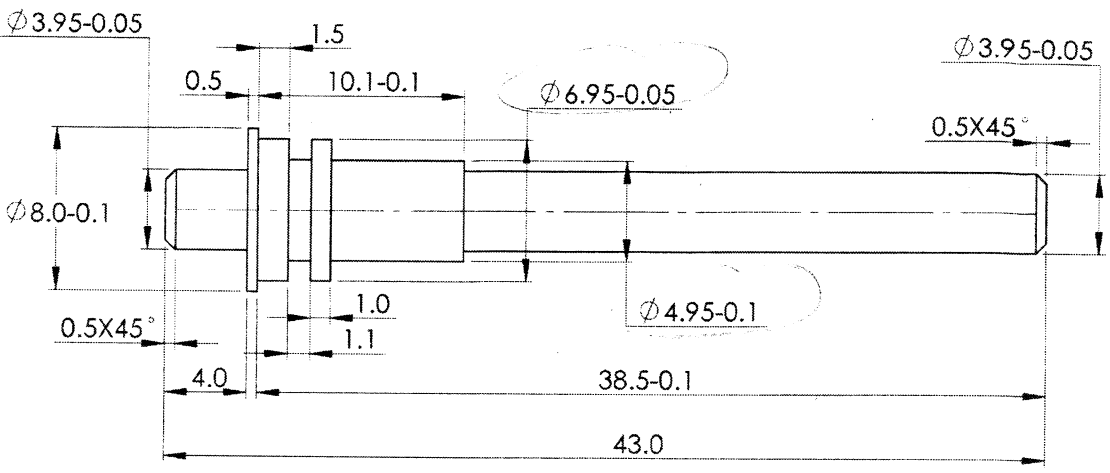






ISS: A 0 0 0 0  
 C: 3 0 1 3  
 A: 1 4  
 AA: 2 0 2  
 C: 4 0 4  
 SS: 3 0 3  
 IC: 4 2 0 4  
 DRG No. 0 2 0 4

GENERAL TOL. : FINE / MEDIUM / COARSE CLASS TO IS: 2102  
 DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



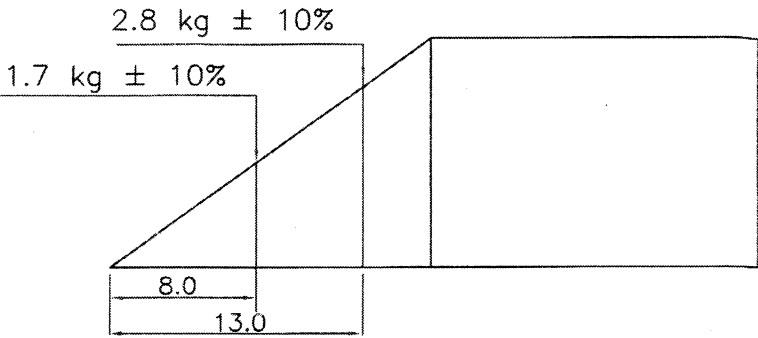
- NOTE:**
- 1) REMOVE ALL SHARP EDGES AND BURRS.
  - 2) HEAT TREATMENT : HARDENED TO 500-550 HV WITH CASE DEPTH 0.13 TO 0.26
  - 3) IF THE COMPONENT IS TO BE MANUFACTURED THROUGH MIM ROUTE, REFER ARDE SPECN No: DRDO/ARDE/MIM/TSP/051/2019.
  - 4) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

*Handwritten notes:*  
 K. S. Mehta  
 08/07/2019  
 (Signature)

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN: ANKIT	DATE: 07/03/2019	CHECKED	MATERIAL:			
SIGN: <i>(Signature)</i>			STEEL TO IS:4432-1988 Gd. 13Ni13Cr3			
APPD.	DATE: 07/03/2019	FOR DIRECTOR	PROTECTIVE FINISH:			
SEALED DATE:			ELECTROLESS NICKEL-BORON NITRIDE (NiBN) COATING AS PER ARDE SPECN. NO: ARDE/SA/2016/COATING-02			
SHEET SIZE: A4	SCALE: 3:1	EST. MASS 5.13 gm	TITLE:			
DESIGN AUTHORITY			<b>PIN AUTO SEAR</b>			
DRG No.	0 2 0 4	0 3	0 4	0 2	1 4	0 1 3
	IC	SS	S	AA	A	C
JVPC	PART No.	DS CAT No.	AHSP			

DRG.No. 0 2 0 4 0 3 0 4 0 2 1 8 0 1 1 0 0 0 D A

GEN TOL FINE/MEDIUM/COARSE CLASS TO IS:2102 DRG CONVENTIONS CONFIRM TO INDIAN STD DIMN IN mm UNLESS OTHERWISE STATED



*Handwritten notes:*  
 Nos/mms  
 08/07/22

NOTES:  
 STRESS TO BE RELIEVED  
 WIRE DIA : 0.70  
 MEAN DIA : 4.0±0.2  
 No.OF EFFECTIVE COILS :18  
 WOUND : L H OR R H

CRAMP TEST:--SPRING TO BE TESTED BEFORE GAUGING BY COMPRESSION TO A LENGTH OF 10.0mm FOR A PERIOD OF 12,HOURS AFTER WHICH IT MUST CONFORM TO FREE LENGTH.

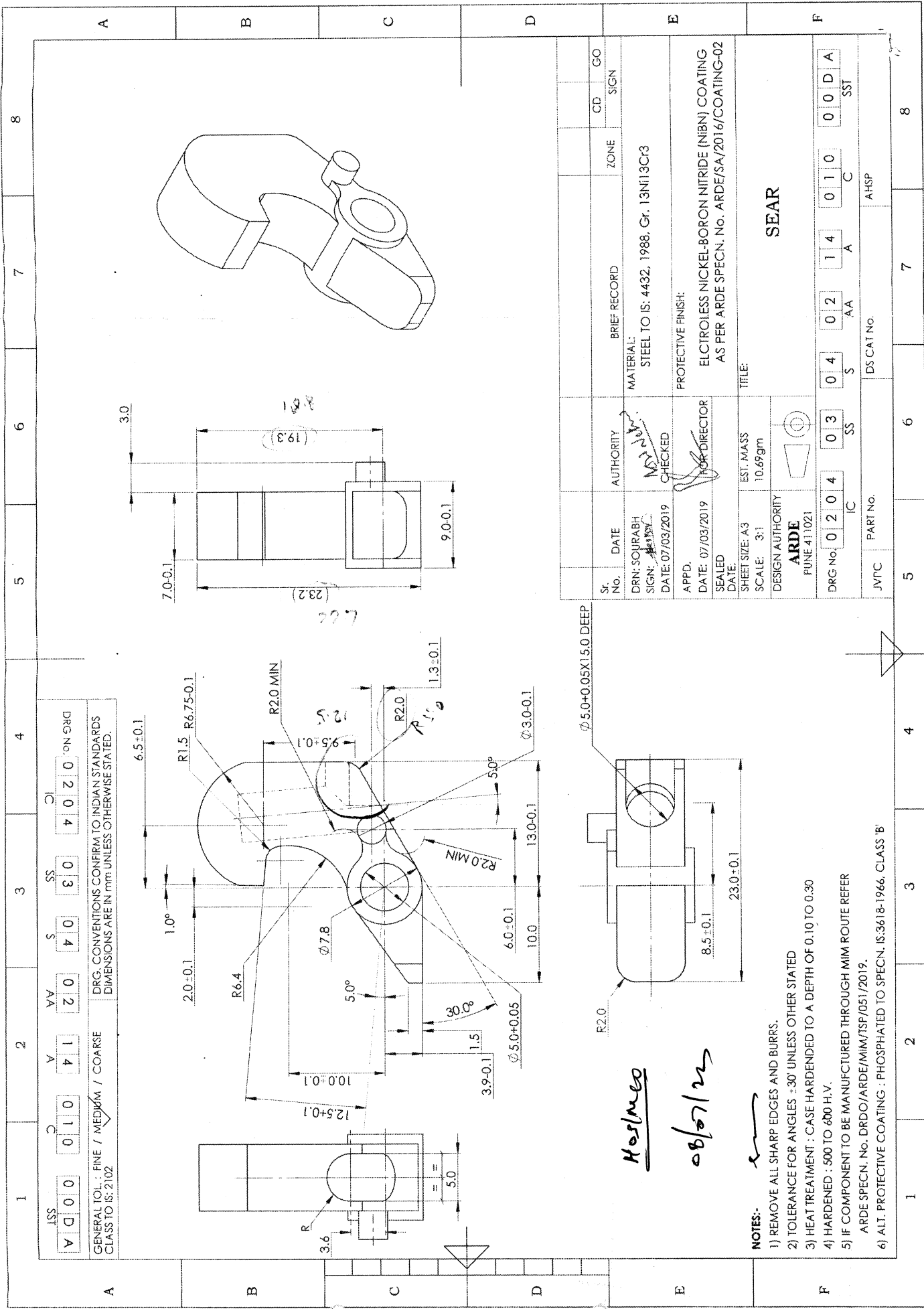
ONE COIL OF EACH END TO BE CLOSED IN AND GROUND SQUARE TO THE AXIS OF THE COIL, LEAVING 3/4 OF COIL AT EACH END. NON EFFECTIVE

S No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN	<i>SOURABH</i>	CHD <i>M. J. Jadhav</i>	MATERIAL:		SIGN	
APPD	DATE 07/03/2019	<i>Director</i>	STEEL TO IS:4454 (Pt-1)2001, DH			
SEALED	DATE		PROTECTIVE FINISH: PHOSPHATED TO SPECN. IS: 3618-1966, CLASS ' B'			
SCALE	5:1	EST MASS	TITLE			
DESIGN AUTHORITY	ARDE		SPRING SEAR			
PUNE	411021					

DRG.No. 0 2 0 4 0 3 0 4 0 2 1 8 0 1 1 0 0 0 D A

PART No DS CAT No AHSP

1 2 3 4



GENERAL TOL.: FINE / MEDIUM / COARSE  
CLASS TO IS: 2102

DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS  
DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

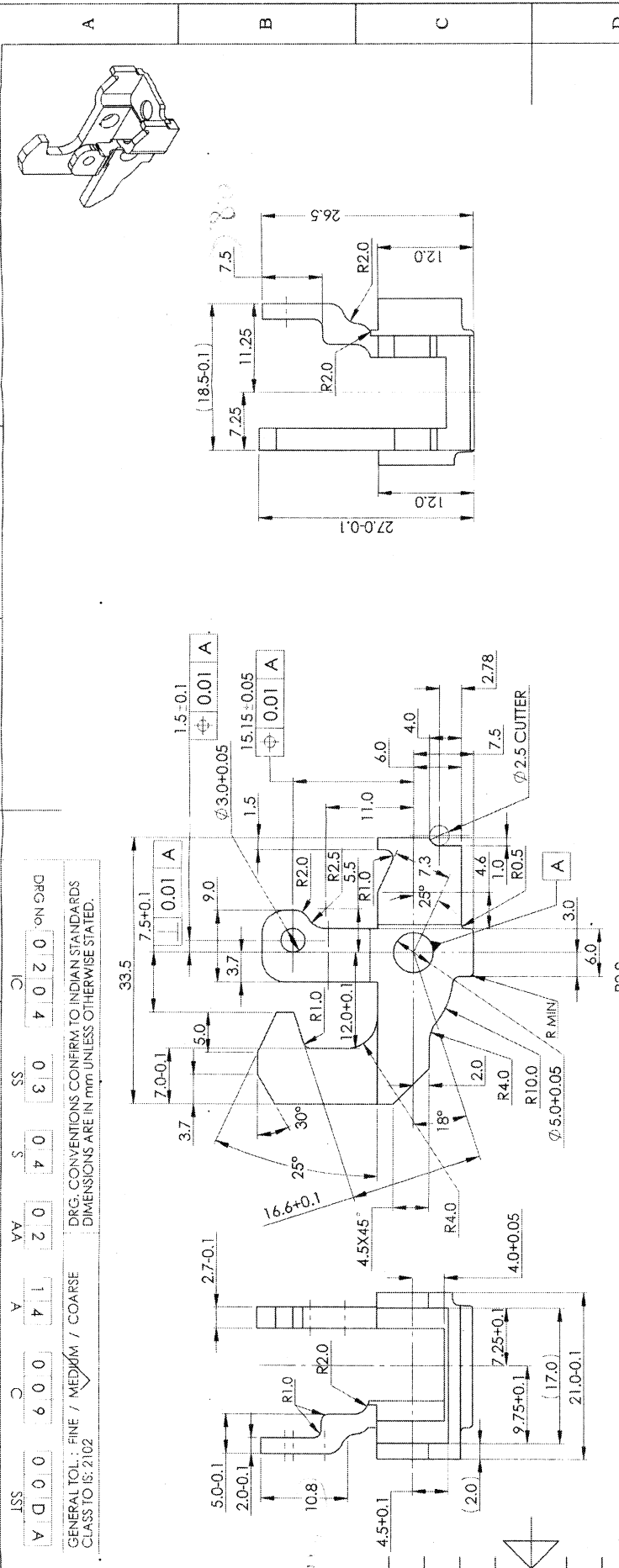
ISS	V	C	A	S	SS	IC	DRG
0100	0110	41	20	40	80	4020	ON GRD

- NOTES:-**
- 1) REMOVE ALL SHARP EDGES AND BURRS.
  - 2) TOLERANCE FOR ANGLES : 30' UNLESS OTHER STATED
  - 3) HEAT TREATMENT : CASE HARDENED TO A DEPTH OF 0.10 TO 0.30
  - 4) HARDENED : 500 TO 600 H.V.
  - 5) IF COMPONENT TO BE MANUFACTURED THROUGH MIM ROUTE REFER ARDE SPECN. No. DRDO/ARDE/MIM/TSP/051/2019.
  - 6) ALT. PROTECTIVE COATING : PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN: SOURABH SIGN: <i>[Signature]</i>	DATE: 07/03/2019	CHECKED	MATERIAL: STEEL TO IS: 4432, 1988, Gr. 13N113Cr3			
APPD. DATE: 07/03/2019	DRG No. 0204	FOR DIRECTOR	PROTECTIVE FINISH: ELECTROLESS NICKEL-BORON NITRIDE (NiBN) COATING AS PER ARDE SPECN. No. ARDE/SA/2016/COATING-02			
SEALED DATE:	03	SS				
SHEET SIZE: A3	04	S				
SCALE: 3:1	02	AA				
EST. MAASS 10.69gpm	01	A				
DESIGN AUTHORITY <b>ARDE</b> PUNE 411021	00	C				
	02	SS				
	04	S				
	01	AA				
	02	A				
	01	C				
	00	D				
	00	SST				

JVFC PART NO. DS CAT NO. AHP





Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN: SOURABH	07/03/2019	<i>Sourabh</i>	MATERIAL: STEEL TO IS:4432-1988 Gd. 13Ni13Cr3			
SIGN: <i>Sourabh</i>	CHECKED		PROTECTIVE FINISH: ELECTROLESS NICKEL-BORON NITRIDE (NiBN) COATING AS PER ARDE SPECN. NO: ARDE/SA/2016/COATING-02			
APPD. <i>Sourabh</i>	FOR DIRECTOR		TITLE: TRIGGER REAR			
SEALING DATE: 07/03/2019	EST. MASS: 18.86 gm					
SHEET SIZE: A3	SCALE: 2:1					
DESIGN AUTHORITY: ARDE PUNE 411021						
DRG No: 0 2 0 4 0 3	SS	S	AA	A	C	0 0 D A
JVPC PART No.	IC	SS	DS-CAT No.	AHSP		SST

- NOTE:
- 1) REMOVE ALL SHARP EDGES AND BURRS.
  - 2) TOLERANCE FOR ANGLE = 30°, UNLESS OTHERWISE STATED.
  - 3) HEAT TREATMENT: CASE HARDENED TO A DEPTH OF 0.13 TO 0.26
  - 4) HARDNESS:- 500 TO 550 H.V
  - 5) IF THE COMPONENT IS TO BE MANUFACTURED THROUGH MIM ROUTE, REFER ARDE SPECN No: DRDO/ARDE/MIM/TSP/051/2019.
  - 6) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

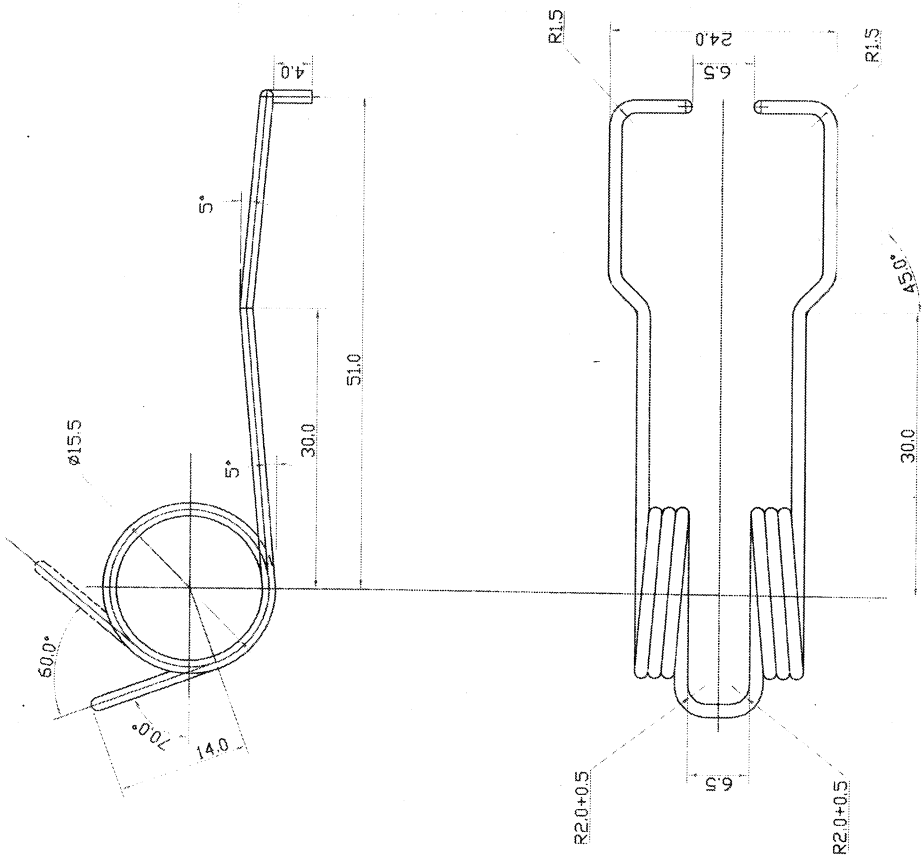
*M=st/mco*

*08/07/19*

*22*

1 2 3 4 5 6 7 8  
 IC SS S WA A C A IC 'ON 988  
 V D 0 0 8 0 0 0 1 4 4 2 0 2 0 4 0 0 4 0 2 0  
 GEN. TOL. FINE/MEDIUM/COARSE DRG. CONVENTIONS CONFIRM TO INDIAN STD.  
 CLASS TO IS:2102 DIMN. IN mm UNLESS OTHERWISE STATED

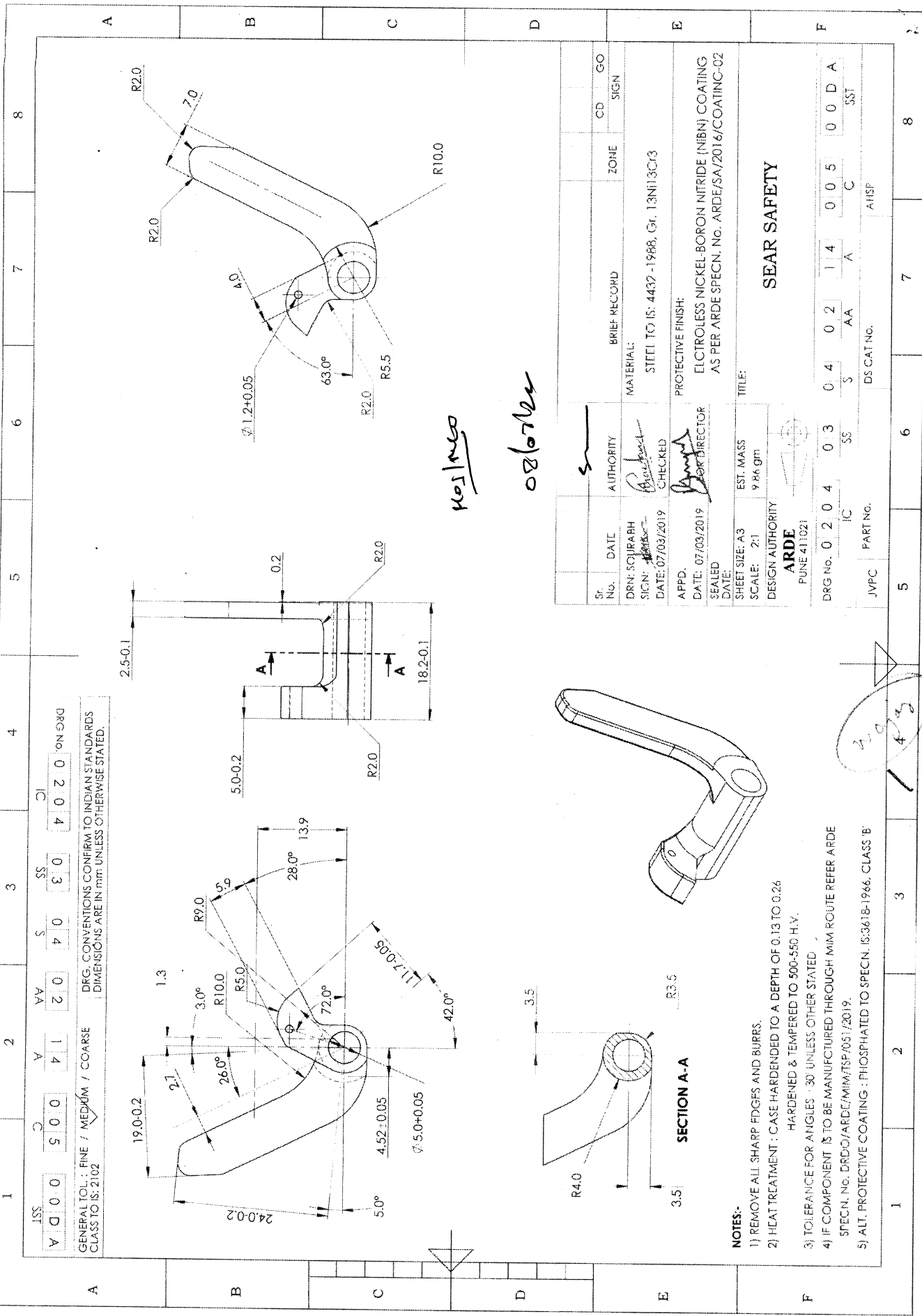
NOTES:  
 WIRE DIA : 1.2  
 MEAN COIL DIAMETER : 16.7  
 No. OF EFFECTIVE COILS : 3+3  
 WOUND : AS SHOWN  
 LOAD TO BE ENSURED AS FOLLOWS:  
 DEFLECTION 60° : 1.78kg. ± 5%  
 DEFLECTION 135° : 4.00kg. ± 5%  
 STRESS TO BE RELIEVED  
 TOLERANCE FOR UNTOLERANCED DIMNS ±0.2  
 TOLERANCE FOR ANGLES ±1°



Hos/mco  
 08/07/24  
 S

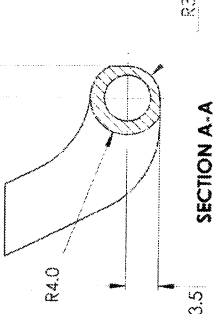
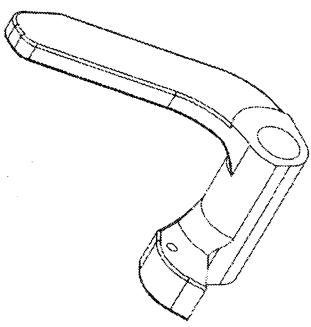
Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	SIGN	GO
DRN No.	SOURABH	CPD. <i>[Signature]</i>					
APPD.	DATE	07/03/2018	MATERIAL: STEEL TO IS: 4454(Pt-1)2001, DH				
SEALED	DATE	<i>[Signature]</i>	PROTECTIVE FINISH: PHOSPHATED TO SPECN.IS:3618-1966, CLASS 'B'				
SCALE	EST. MASS	2:1	TITLE: SPRING HAMMER				
DESIGN AUTHORITY		ARDE	DS CAT. No. 02040304021400800DA				
PUNE 411021			IC SS S WA A C A				
DRG. No.		02040304021400800DA	PART No. 02040304021400800DA				
PART No.		02040304021400800DA	AHSP				

12



Y D 0 0 S 0 0 P 1 Z 0 VV 2 0 S SS 4 0 2 0 ON DRD  
 CI 4 0 2 0  
 GENERAL TOL.: FINE / MEDIUM / COARSE  
 DRG. CONVENTIONS CONFORM TO INDIAN STANDARDS  
 DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

KOTING  
 08/07/2019



SECTION A-A

- NOTES:-**
- 1) REMOVE ALL SHARP EDGES AND BURRS.
  - 2) HEAT TREATMENT : CASE HARDENED TO A DEPTH OF 0.13 TO 0.26 HARDENED & TEMPERED TO 500-550 H.V.
  - 3) TOLERANCE FOR ANGLES : 30° UNLESS OTHER STATED.
  - 4) IF COMPONENT IS TO BE MANUFACTURED THROUGH M/M ROUTE REFER ARDE SPECN. NO. DRDO/ARDE/MIM/TSP/051/2019.
  - 5) ALT. PROTECTIVE COATING : PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO SIGN
DRN: SOJURABH						
SIGN: <i>[Signature]</i>						
DATE: 07/03/2019						
CHECKED						
APPD. <i>[Signature]</i>						
DATE: 07/03/2019						
SEALD						
SHEET SIZE: A3						
SCALE: 2:1						
EST. MASS 9.86 gm						
DESIGN AUTHORITY						
ARDE						
PUNE 411021						
DRG No. 0 2 0 4 0 3 0 4 0 2 1 4 0 0 5 0 0 D A						
IC SS S AA A C SST						
JVPC PART NO. DS CAT NO. AHSP						

SEAR SAFETY

3093  
 4/3

20



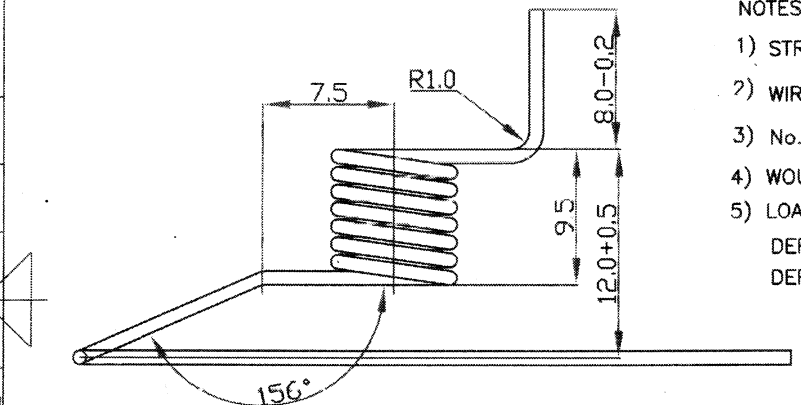
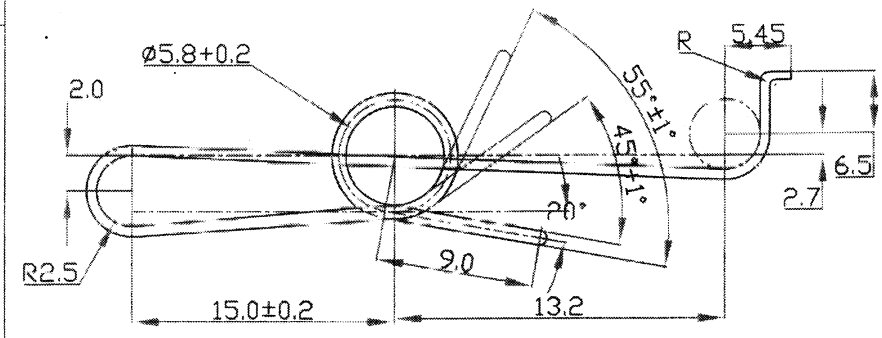


ISS C A AA S SS IC DRG No.

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A	D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

GENERAL TOL : FINE / MEDIUM / COARSE  
 CLASS TO IS : 2102

DRG. CONVENTIONS CONFIRMS TO INDIAN STANDARD  
 DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED



- NOTES :
- 1) STRESS TO BE RELIEVED.
  - 2) WIRE DIA : 1.0
  - 3) No. OF COILS : 7
  - 4) WOUND : L.H.
  - 5) LOAD TO BE ENSURED AS FOLLOWS:  
 DEFLECTION 45° : 0.62kg. ± 5%  
 DEFLECTION 55° : 0.76kg. ± 5%

*Kosh...*  
*08/02/19*

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO

DRN: SOURABH  
 SIGN: *Sourabh*  
 DATE: 07/03/2019 CHECKED *[Signature]*

MATERIAL:  
 STEEL WIRE TO IS : 4454 Pt. 1, 2001, DH

APPD.  
 DATE: 07/03/2019 FOR DIRECTOR *[Signature]*

PROTECTIVE FINISH:  
 PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

SEALD DATE:

SHEET SIZE : A4 EST. MASS

SCALE : NTS

DESIGN AUTHORITY  
**ARDE**  
 PUNE 411021

TITLE:  
**SPRING SEAR SAFETY**

DRG NO

0	2	0	4	0	3	0	4	0	2	1	4	0	0	6	0	0	D	A
IC				SS		S		AA		A		C			SST			

JVPC PART No. DIS CAT No. AHSP

1 2 3 4

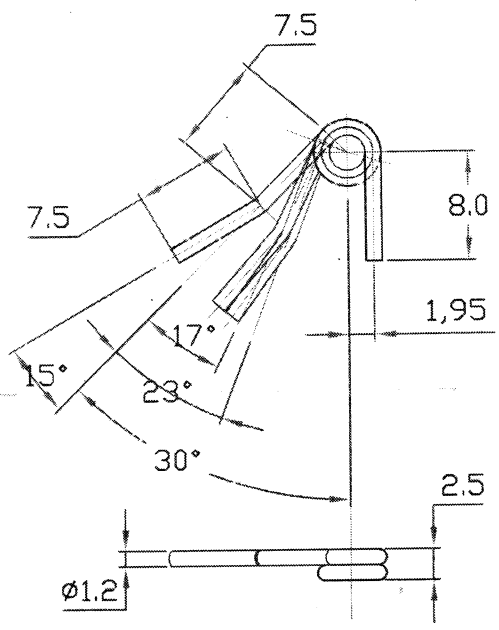
1 2 3 4

ISS C A AA S SS IC DRG.No.

0000 015 14 20 40 30 4204

GEN TOL FINE/MEDIUM/COARSE CLASS TO IS:2102

DRG CONVENTIONS CONFIRM TO INDIAN STDS. DIMN IN mm UNLESS OTHERWISE STATED



STRESS TO BE RELIEVED

SPRING WIRE DIA--1.2mm

MEAN COIL DIA -- 3.9

No.OF EFFECTIVE COIL---2

LOAD AT 17° = 1.34 kg±10%

LOAD AT 23° = 1.82 kg±10%

*nos/mms*

*o 8/2/19*

*sr*

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S No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
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DRN ANKIT CHD *Chandrasekar* MATERIAL:- STEEL TO IS:4454,PI.-1, 2001 DH

APPD *Arde* PROTECTIVE FINISH :- PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'.

DATE 07/03/2019 For Director

SEALED DATE

SCALE 2:1 EST MASS TITLE

DESIGN AUTHORITY ARDE PUNE 411021



**SPRING CATCH MAGAZINE**

DRG.No. 0204 03 04 02 14 015 00DA

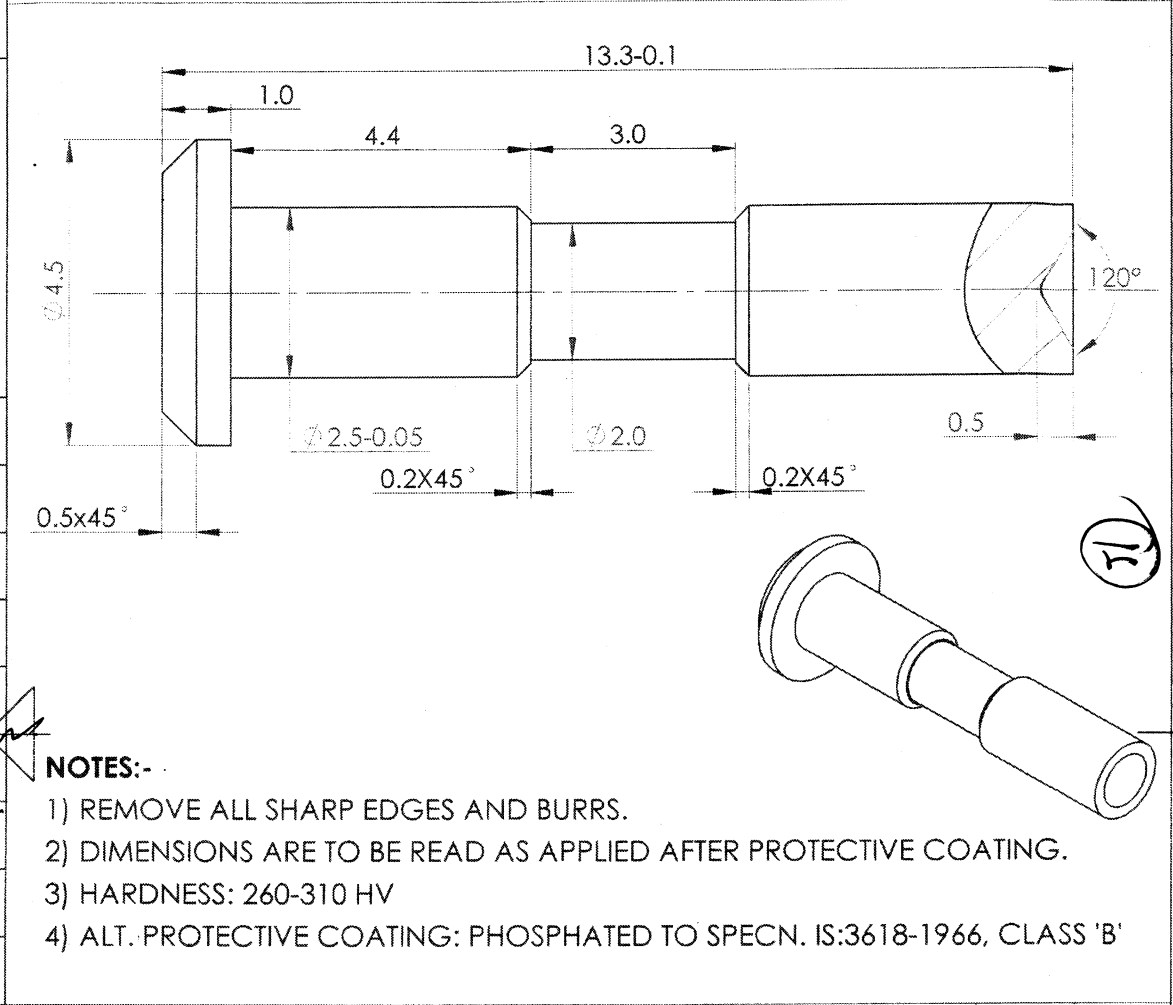
IC SS S AA A C SST

PART No DS CAT No AHSP

1 2 3 4

DRG No. 0204 0304 0202 1404 0160 00DA

GENERAL TOL. : FINE / MEDIUM / COARSE CLASS TO IS: 2102  DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



**NOTES:-**

- 1) REMOVE ALL SHARP EDGES AND BURRS.
- 2) DIMENSIONS ARE TO BE READ AS APPLIED AFTER PROTECTIVE COATING.
- 3) HARDNESS: 260-310 HV
- 4) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

*Handwritten notes:*  
 Hosli meo  
 08/07/2019

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
					SIGN	

DRN: ANKIT  
 SIGN: *[Signature]*  
 DATE: 07/03/2019  
 MATERIAL: STEEL TO IS:5517-1993, Gd. 55C8  
 CHECKED: *[Signature]*

APPD. DATE: 07/03/2019 FOR DIRECTOR  
 PROTECTIVE FINISH: ELECTROLESS NICKEL-BORON NITRIDE (NIBN) COATING AS PER ARDE SPECN. NO: ARDE/SA/2016/COATING-02  
 SEALED DATE:

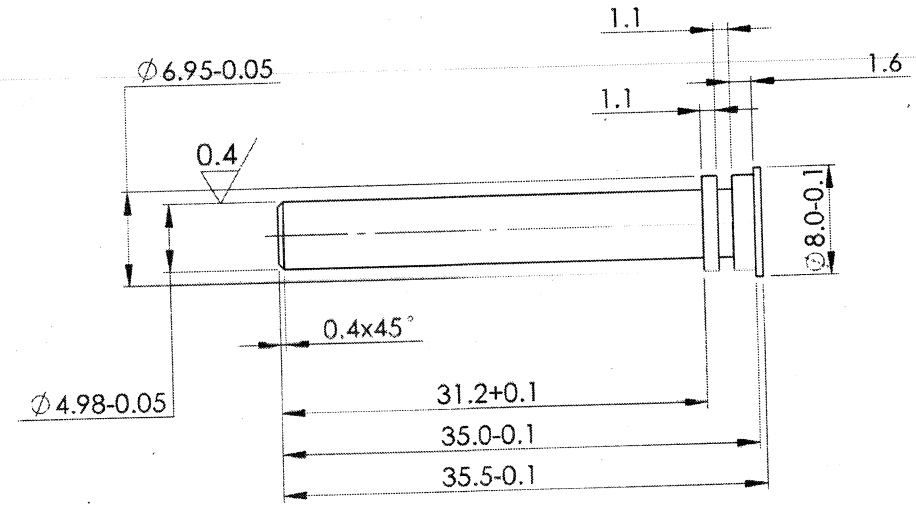
SHEET SIZE: A4, SCALE: 10:1  
 EST. MASS: 0.47 gm  
 TITLE: **PIN CATCH MAGAZINE**  
 DESIGN AUTHORITY: **ARDE** PUNE 411021

DRG No. 0204 0304 0202 1404 0160 00DA  
 IC SS S AA A C SST

JVPC PART No. DS CAT No. AHSP

DRG No. **0204** IC **0304** SS **0402** AA **14** A **004** C **004** ISS **0004** A

GENERAL TOL. : FINE / MEDIUM / COARSE CLASS TO IS: 2102 ✓ DRG. CONVENTIONS CONFIRM TO INDAN STANDARDS DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



**NOTES:-**

- 1) REMOVE ALL SHARP EDGES AND BURRS.
- 2) HARDNESS : 500-550 HV.
- 3) HEAT TREATMENT : CASE HARDENED TO A DEPTH OF 0.13 TO 0.26
- 4) IF COMPONENT TO BE MANUFACTURED THROUGH MIM ROUTE REFER ARDE SPECN. No. DRDO/ARDE/MIM/TSP/051/2019.
- 5) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS: 3618-1966. CLASS 'B'



*Handwritten notes:*  
 Hos/neo  
 08/07/19

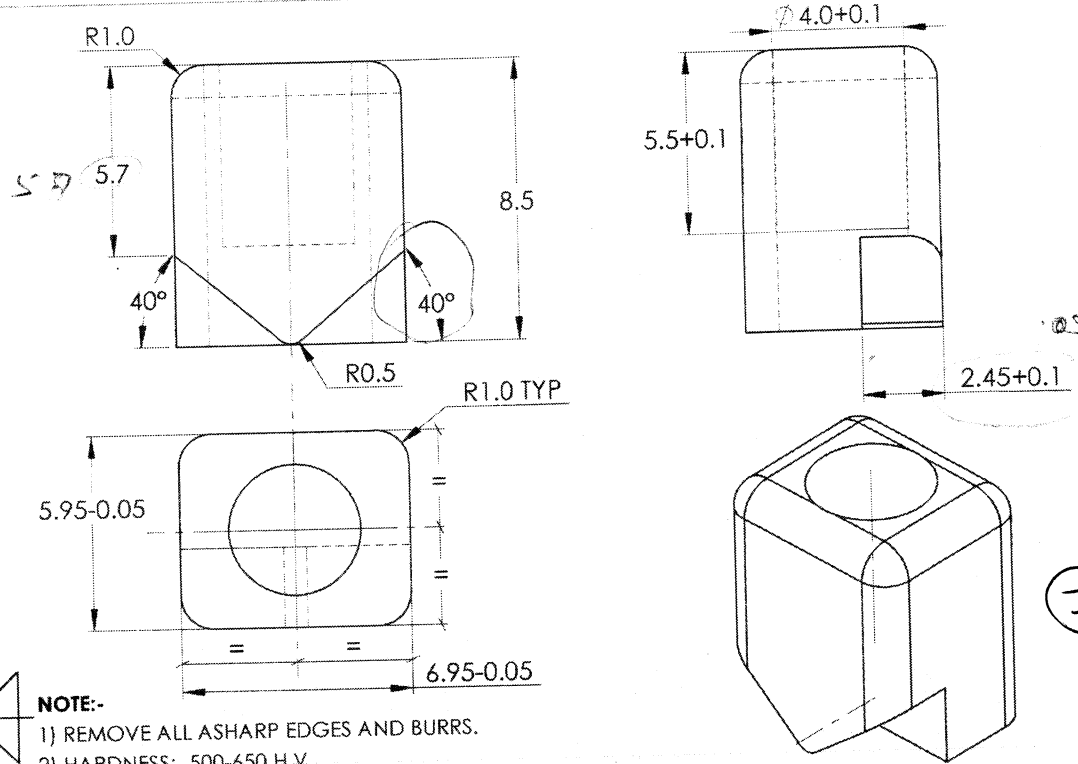
Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	CO
					SIGN	
DRN: SOURABH SIGN: <i>Sourabh</i> DATE: 07/03/2019		MATERIAL: STEEL TO IS: 4432- 1988, Gr 13 Ni13Cr3				
APPD. DATE: 07/03/2019		PROTECTIVE FINISH: ELCTROLESS NICKEL-BORON NITRIDE (NIBN) COATING AS PER ARDE SPECN. No. ARDE/SA/2016/COATING-02				
SEALD DATE:		TITLE: <b>PIN TRIGGER ,HAMMER AND SEAR SAFETY</b>				
SHEET SIZE: A4 SCALE: 2:1		EST. MASS 5.82 gm				
DESIGN AUTHORITY <b>ARDE</b> PUNE 411021						
DRG No. <b>0204</b>		<b>03</b>		<b>04</b>		<b>02</b>
IC		SS		S		AA
JVPC		PART No.		DS CAT No.		AHSP
						<b>14</b>
						<b>004</b>
						<b>00DA</b>
						SST

1 2 3 4



DRG No. 02040304020401900DA  
 IC SS C AA V C SS IC

GENERAL TOL. : FINE / MEDIUM / COARSE CLASS TO IS: 2102  
 DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



- NOTE:-**
- 1) REMOVE ALL ASHARP EDGES AND BURRS.
  - 2) HARDNESS:- 500-650 H.V
  - 3) HEAT TREATMENT:- CASE HARDENED TO A DEPTH OF 0.10 TO 0.30
  - 4) IF THE COMPONENT IS TO BE MANUFACTURED THROUGH MIM ROUTE, REFER ARDE SPECN No: DRDO/ARDE/MIM/TSP/051/2019.
  - 5) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

*Handwritten notes:*  
 08/07/2019

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
					SIGN	
DRN: SOURABH SIGN: <i>[Signature]</i> DATE: 07/03/2019	CHECKED	<i>[Signature]</i>	MATERIAL: STEEL TO IS:4432-1988 Gd.13Ni13Cr3			
APPD. DATE:07/03/2019	FOR DIRECTOR	<i>[Signature]</i>	PROTECTIVE FINISH: ELECTROLESS NICKEL-BORON NITRIDE (NiBN) COATING AS PER ARDE SPECN. NO: ARDE/SA/2016/COATING-02			
SEALED DATE:			TITLE: <b>PLUNGER WHEEL LOCK</b>			
SHEET SIZE: A4 SCALE: 5:1	EST. MASS 1.89 gm					
DESIGN AUTHORITY <b>ARDE</b> PUNE 411021						

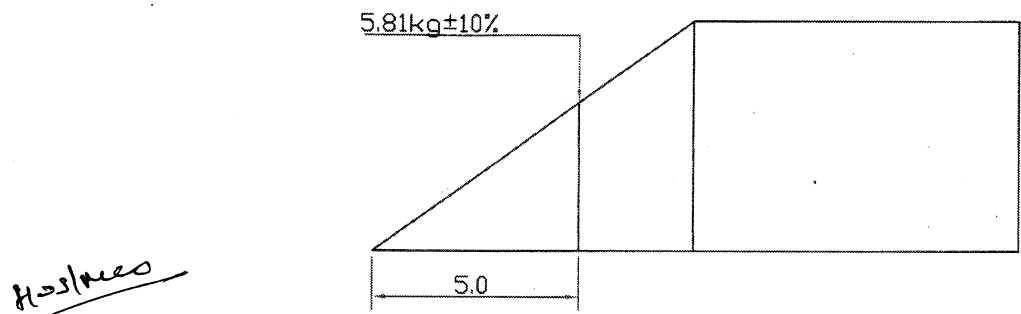
DRG No. 02040304020401900DA  
 IC SS S AA A C SST

JVPC PART No. DS CAT No. AHSP

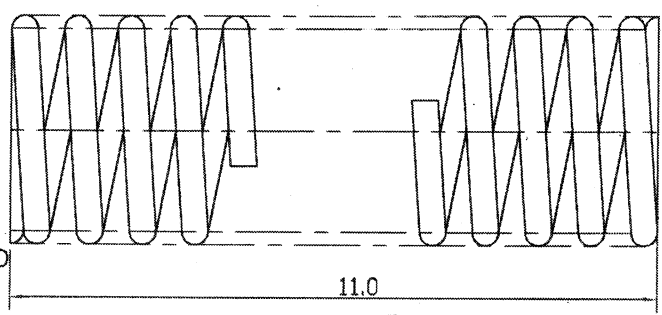
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 CH

1 2 3 4  
 ISS C A AA S SS IC  
 0000A 020 1414 020 404 303 0204

GEN TOL FINE/MEDIUM/COARSE CLASS TO IS:2102  
 DRG CONVENTIONS CONFIRM TO INDIAN STD DIMN IN mm UNLESS OTHERWISE STATED



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 08/07/19



- NOTES :
- 1) STRESS TO BE RELIEVED
  - 2) WIRE DIA : 0.7
  - 3) MEAN DIA : 3.0
  - 4) No.OF EFFECTIVE COILS : 5
  - 5) WOUND : L H OR R H

CRAMP TEST:--SPRING TO BE TESTED BEFORE GAUGING BY COMPRESSION TO A LENGTH OF 6mm FOR A PERIOD OF 12, HOURS AFTER WHICH IT MUST CONFORM TO FREE LENGTH.

ONE COIL OF EACH END TO BE CLOSED IN AND GROUND SQUARE TO THE AXIS OF THE COIL, LEAVING 3/4 OF COIL AT EACH END. NON EFFECTIVE

S No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN	SOURABH	CHD	MATERIAL:		SIGN	
APPD	DATE 07/03/2019	For Director	STEEL TO IS:4454 (Pt-1) 2001, DH			
SEALED	DATE		PROTECTIVE FINISH: PHOSPHATED TO SPECN.			
			IS: 3618-1966, CLASS 'B'			
SCALE	5:1	EST MASS	TITLE			
DESIGN AUTHORITY	ARDE		<b>SPRING PLUNGER WHEEL LOCK</b>			
	PUNE 411021					

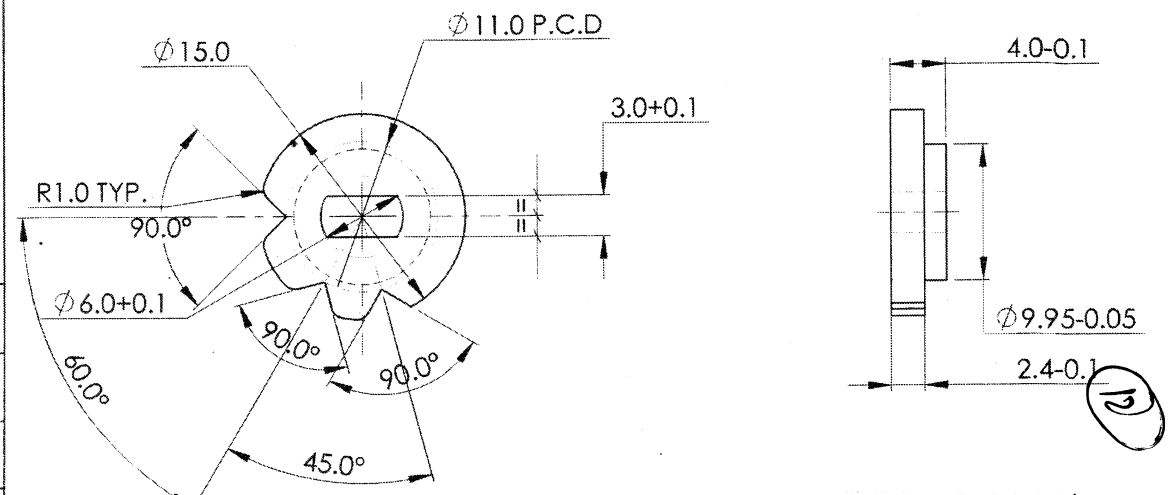
DRG.No. 0204 03 04 02 14 020 00DA  
 IC SS S AA A C SST  
 PART No DS CAT No AHSP

1 2 3 4

DRG No. 

0	2	0	4
0	3	0	3
0	4	0	2
1	4	0	2
0	3	0	4
0	2	0	4
0	0	D	A

GENERAL TOL. : FINE / MEDIUM / COARSE CLASS TO IS: 2102 DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



**NOTES:-**

- 1) REMOVE ALL SHARP EDGES AND BURRS.
- 2) TOLERANCE FOR ANGLES ±30' UNLESS OTHER STATED
- 3) HARDNESS : 500 TO 550 H.V.
- 4) HEAT TREATMENT : CASE HARDENED TO A DEPTH OF 0.13 TO 0.26
- 5) IF THE COMPONENT IS TO BE MANUFACTURED THROUGH MIM ROUTE, REFER ARDE SPECN No. DRDO/ARDE/MIM/TSP/051/2019.
- 6) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS: 3618-1966, CLASS 'B'

*Handwritten notes:*  
 No. 13/11/19  
 08/07/19  
 [Signature]

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
					SIGN	

DRN: SOURABH  
 SIGN: *[Signature]*  
 DATE: 07/03/2019  
 MATERIAL: STEEL TO IS: 4432, 1988 Gr. 13Ni13Cr3  
 CHECKED: *[Signature]*

APPD. DATE: 07/03/2019  
 FOR DIRECTOR: *[Signature]*  
 PROTECTIVE FINISH: ELECTROLESS NICKEL-BORON NITRIDE(NiBN) COATING AS PER ARDE SPECN. NO: ARDE/SA/2016/COATING-02

SHEET SIZE: A4  
 SCALE: 2:1  
 EST. MASS: 3.48gm  
 TITLE: **WHEEL LOCK**  
 DESIGN AUTHORITY: **ARDE**  
 PUNE 411021

DRG No. 

0	2	0	4
0	3	0	4
0	4	0	2
1	4	0	2
0	3	0	4
0	2	0	4
0	0	D	A

JVPC PART No. DS CAT No. AHSP

1 2 3 4

ISS C A AA C SS IC

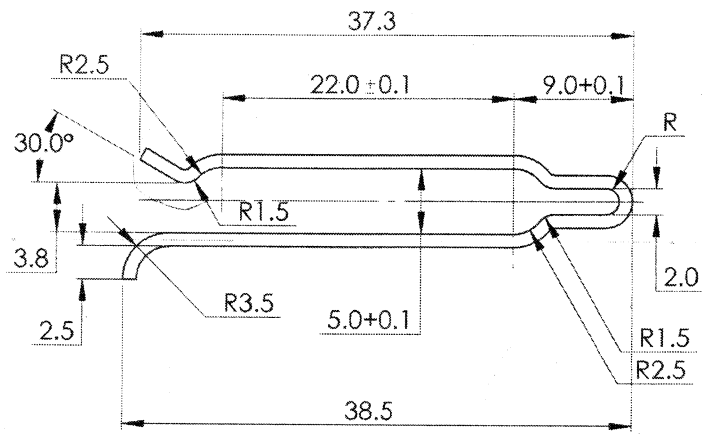
A D A 0 0 0 8 1 0 4 1 4 2 0 4 0 3 0 4 0 2 0 4

DRG No.

GENERAL TOL. : FINE / MEDIUM / COARSE  
CLASS TO IS: 2102

DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS  
DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.

- NOTES:**
- 1) STRESS TO BE RELIEVED.
  - 2) WIRE DIA :- 1.0



*check*

*(=)*

*hos/mes*

*o b l o n e*

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
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DRN: SOURABH  
SIGN: *Sourabh*  
DATE: 07/03/2019  
CHECKED: *M. S. ...*

MATERIAL:  
STEEL WIRE TO IS : 4454 Pt. 1, 2001 DH

APPD. *M. S. ...*  
DATE: 07/03/2019  
FOR DIRECTOR

PROTECTIVE FINISH:  
PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

SEALED DATE:

SHEET SIZE: A4  
SCALE: 2:1

EST. MASS  
0.478 gm

TITLE:  
**WIRE SPRING LOCKING  
REAR PINS**

DESIGN AUTHORITY  
**ARDE**  
PUNE 411021

DRG No. 0 2 0 4 0 3 0 4 0 2 1 4 0 1 8 0 0 D A

IC SS S AA A C SST

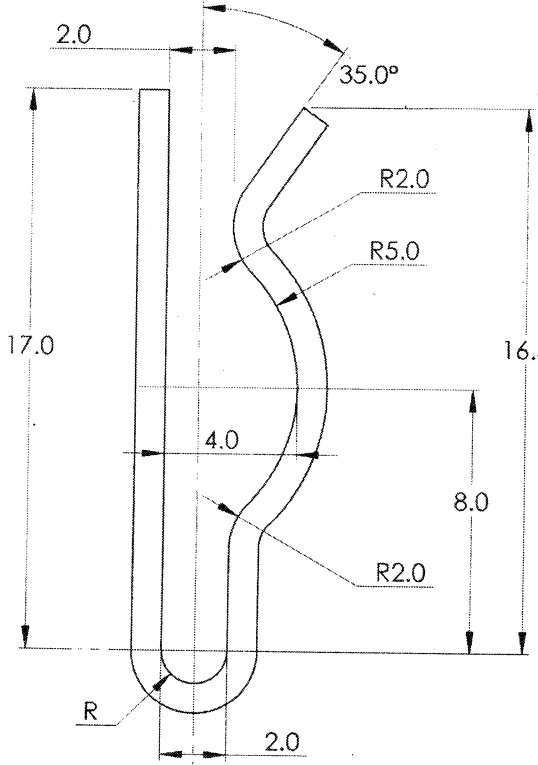
JVPC PART No. DS CAT No. AHSP

1 2 3 4



ISS C A AA C SS IC  
 A D 0 0 0 0 1 7 1 4 2 0 4 0 3 0 4 0 2 0 4 DRG No.

GENERAL TOL. : FINE / MEDIUM / COARSE  
 CLASS TO IS: 2102 DRG. CONVENTIONS CONFIRM TO INDIAN STANDARDS  
 DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



**NOTES:**  
 1) STRESS TO BE RELIEVED.  
 2) WIRE DIA :- 0.9

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 (2)

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
					SIGN	

DRN: SOURABH  
 SIGN: *[Signature]*  
 DATE: 07/03/2019 CHECKED

MATERIAL:  
 STEEL WIRE TO IS : 4454 Pt. 1, 2001 DH

APPD. *[Signature]*  
 DATE: 07/03/2019 FOR DIRECTOR

PROTECTIVE FINISH:  
 PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

SEALED  
 DATE:

SHEET SIZE: A4 EST. MASS  
 SCALE: 5:1 0.19gm

DESIGN AUTHORITY  
**ARDE**  
 PUNE 411021

TITLE:  
**WIRE SPRING LOCKING  
 PIN FRONT TRIGGER**

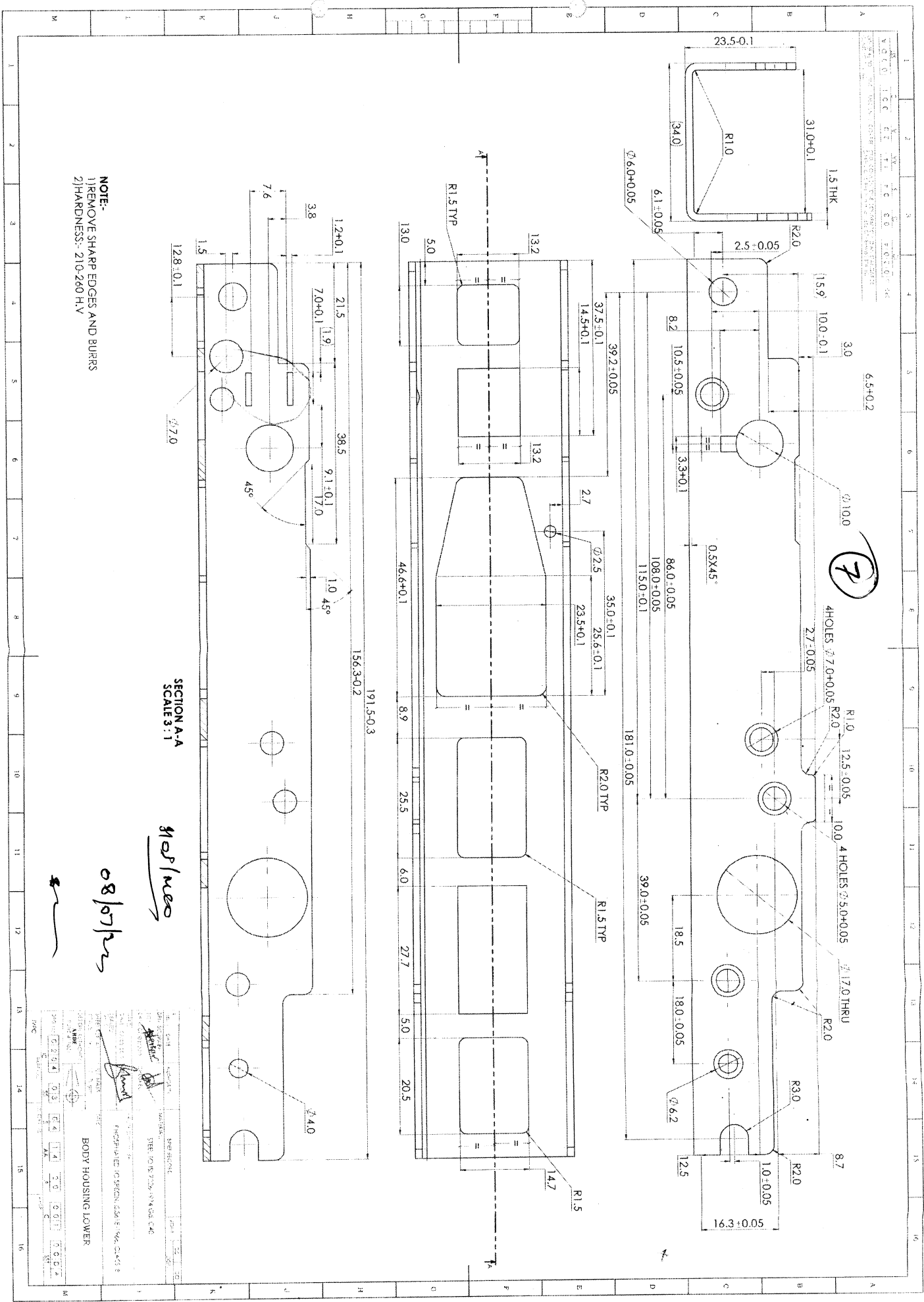
DRG No. 0 2 0 4 0 3 0 4 0 2 1 4 0 1 7 0 0 D A  
 IC SS S AA A C SST

JVPC PART No. DS CAT No. AHSP

1 2 3 4







NOTE:  
 1) REMOVE SHARP EDGES AND BURRS  
 2) HARDNESS: 210-260 H.V

SECTION A-A  
 SCALE 3:1

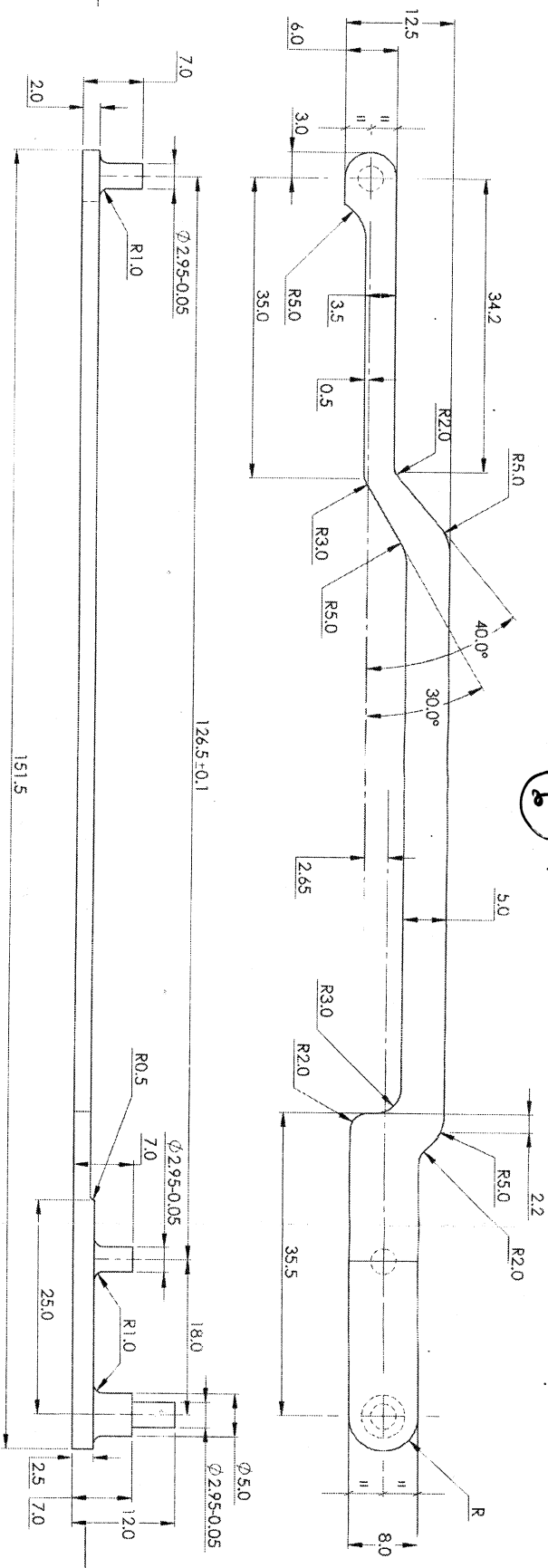
*Handwritten:* 08/07/23  
 108/100

NO.	DATE	REVISION	BY	CHECKED
1	08/07/23	INITIAL DESIGN	[Signature]	[Signature]
2	08/07/23	REVISED DESIGN	[Signature]	[Signature]
3	08/07/23	FINAL DESIGN	[Signature]	[Signature]

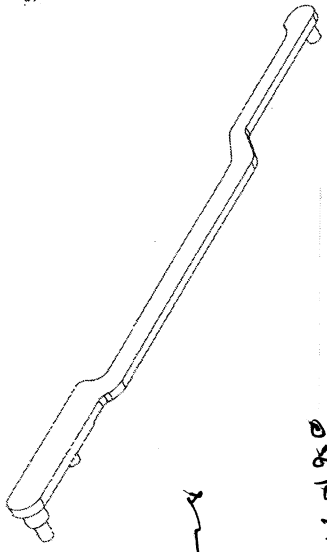
PART NAME: BODY HOUSING LOWER  
 MATERIAL: STEEL (S275)  
 FINISH: ENGRAINED (OPEN) 200-250 µm  
 REFERENCE: EN ISO 2768-MS



GENERAL TOL: FINE / MEDIUM / COARSE  
 CLASS TO IS: 2102  
 DRG. CONVENTIONS CONFORM TO INDIAN STANDARDS  
 DIMENSIONS ARE IN mm UNLESS OTHERWISE STATED.



- NOTES:-**
- 1) REMOVE ALL SHARP EDGES AND BURRS.
  - 2) HARDENED :- 325-375 HV.
  - 3) ALT. PROTECTIVE COATING: PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'

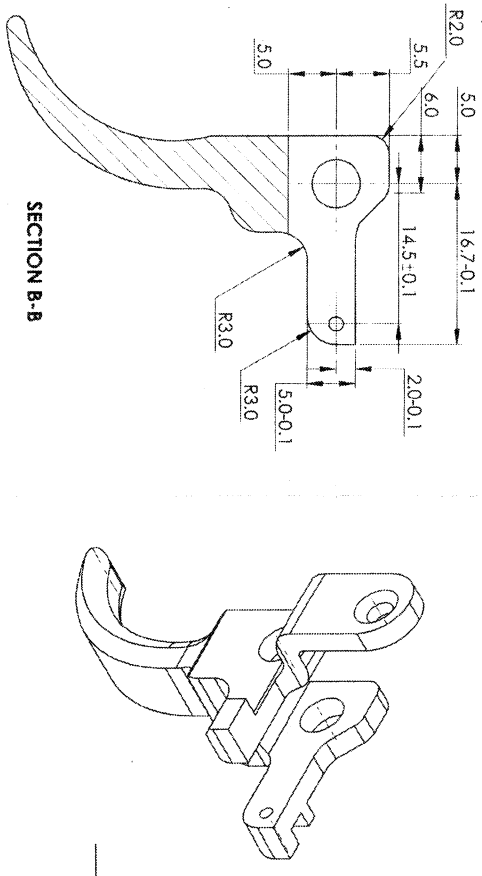
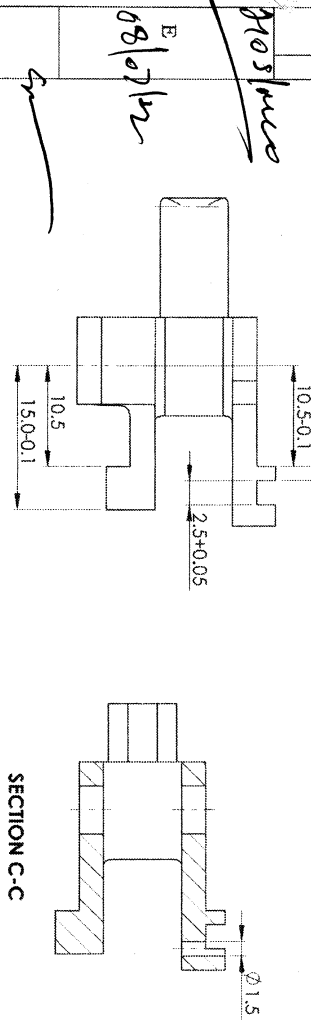
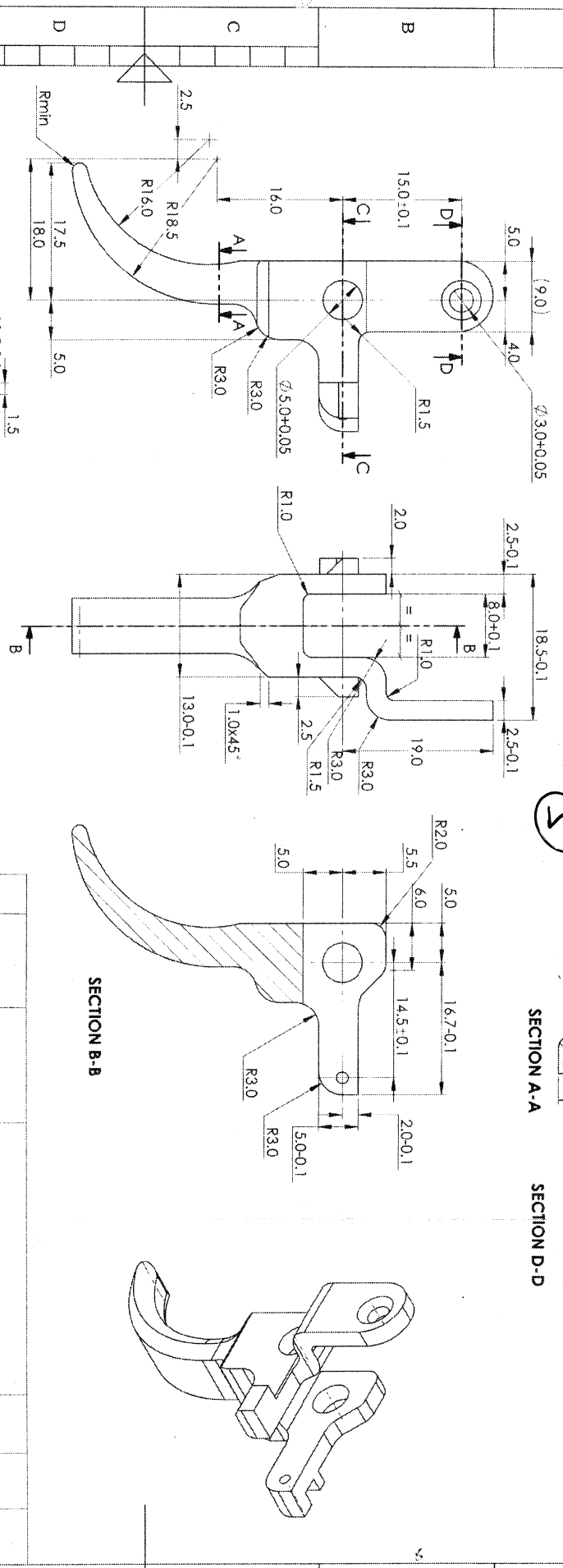


Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN: SOURABH						
SIGN: <i>[Signature]</i>			MATERIAL:			
DATE: 07/03/2019			STEEL TO IS:5517-1993, Gd. 40NiCr4Mo3			
CHECKED			PROTECTIVE FINISH:			
DATE: 07/03/2019			ELECTROLESS NICKEL-BORON NITRIDE (NiBN) COATING			
APPD.			AS PER ARDE SPECN. No. ARDE/SA/2016/COATING-02			
DATE: 07/03/2019						
SEALD						
DATE:						
SHEET SIZE: A3	EST. MASS	TITLE:				
SCALE: 2:1	15.80gm	<b>LINK</b>				
DESIGN AUTHORITY						
<b>ARDE</b>						
FILE #11021						
DRG No. 0204	03	04	02	14	001	00DA
IC	SS	S	AA	A	C	SST
JVPC	PART No.	DS (CAI No.				

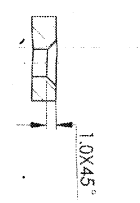
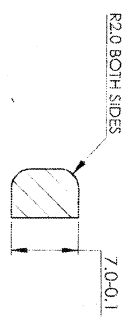
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GENERAL TOL: FINE / MEDIUM / COARSE  
 CLASS TO IS: 2102  
 DRG. CONVENTIONS CONFORM TO INDIAN STANDARDS  
 DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.

DRG No: 0204  
 IC: 03  
 SS: 04  
 S: 02  
 AA: 14  
 A: 00  
 C: 02  
 001D  
 SST  
 AA



3



NOTE:-  
 1) REMOVE ALL SHARP EDGES AND BURRS  
 2) ALTi PROTECTIVE COATING:- PHOSPHATED TO SPECN. IS:3618-1966, CLASS 'B'  
 3) CASE HARDENED TO: 500-550 H.V WITH CASE DEPTH 0.13 TO 0.26  
 4) IF THE COMPONENT IS TO BE MANUFACTURED THROUGH MIM  
 ROUTE, REFER ARDE SPECN NO: DRDO/ARDE/MIM/TSP/051/2019.

SECTION C-C

SECTION B-B

SECTION A-A

SECTION D-D

TRIGGER FRONT

Sr. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN: ANKIT	07/03/2019	CHECKED	STEEL TO IS:4432-1988, Gd. 13N113C/3			
SIGN: <i>[Signature]</i>	07/03/2019	FOR DIRECTOR	PROTECTIVE FINISH:			
DATE: 07/03/2019			ELECTROLESS NICKEL-BORON NITRIDE (INBN) COATING			
APPD.			AS PER ARDE SPECN. NO: ARDE/SA/2016/COATING-02			
DATE: 07/03/2019						
SEALED						
DATE:						
SHEET SIZE: A3	EST. MASS	TITLE:				
SCALE: 2:1	20.40 gm					
DESIGN AUTHORITY						
ARDE						
PUNE 411021						
DRG No: 0204	IC: 03	SS: 04	S: 02	AA: 14	A: 00	C: 02
JVPC	PART NO.	DS	CAT NO.	AHSP		

*08/07/12*

*prossure*

1 2 3 4 5 6 7 8

