

भारत सरकार, रक्षा मंत्रालय
रक्षा अनुसंधान एवं विकास संगठन
आयुध अनुसंधान एवं विकास संस्थापन
डॉ. होमी भाभा पथ,
आयुध डाकघर, पाषाण,
पुणे - 411021
भारत



रक्षा सेवाओं की सेवा
Service to Services

Government of India, Ministry of Defence
Defence R & D Organisation (DRDO)
Armament R&D Estt. (ARDE)
Dr. Homi Bhabha Road,
Armament Post, Pashan,
Pune - 411021
INDIA

प्रमाणित ISO 9001:2015 परमर्षित
ISO 9001:2015 Certified

वेबसाइट / Website : www.drdo.com/labs/arma/arde

No. ARDE/24/2/17-Tech

Date: 13 Jun 2024

To,
The Chief General Manager
Ordnance Factory Chanda
Chandrapur-442 501.
Fax: 07175254043 / 254276
(Kind Attn: Shri Vikas M Dubey, JWM)

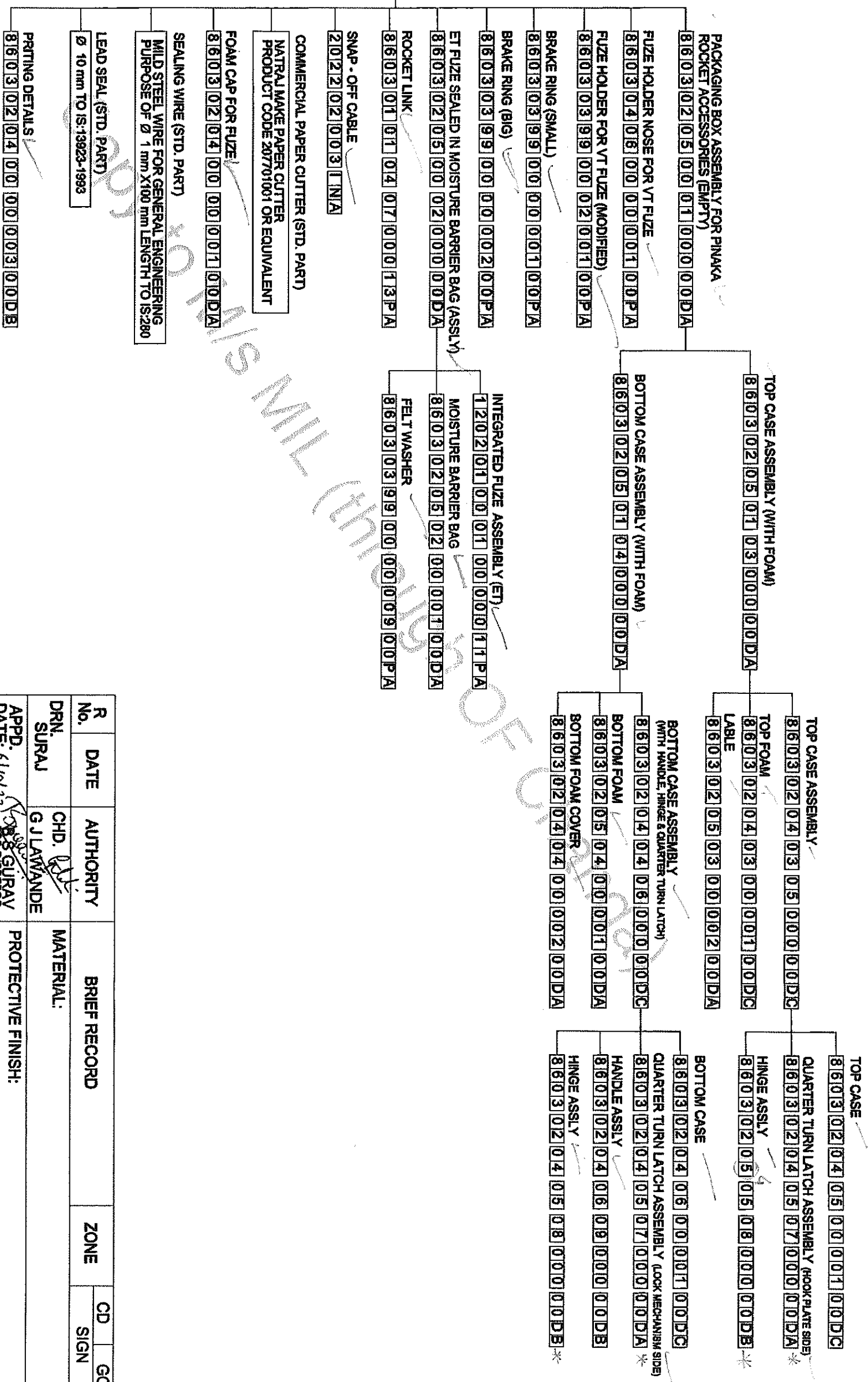
Ref: OF Chanda letter No. 8955/R&D/ADM-III, Dated 10 Jun 2024

Issue of Drawing set of Packaging box (ADM-I)

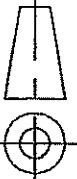
1. With reference to above, ARDE has issued one set drawing of packaging box assembly for Pinaka ADM-I (DPICM) rocket accessories to Shri P. V. Sahu, CMD/004240 (OFCH).

JP Yadav
Sc E
JP Yadav
for Director ARDE

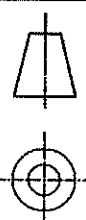
RESTRICTED



RESTRICTED

R No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO									
DRN. SURAJ	CHD. <i>[Signature]</i>	G J LAWANDE	MATERIAL:		SIGN										
APPD. DATE: 6/10/23	<i>[Signature]</i> DRS GURAY FOR DIRECTOR	PROTECTIVE FINISH:													
SEALED DATE:		ASSY. DRG No.:													
SCALE : NTS	EST. MASS	TITLE:													
DESIGN AUTHORITY ARDE		Packaging Box - Drawing Tree for Pinaka ADM - 1 (DPICM) Rocket Accessories													
DRG.No	☐ ☐ ☐ ☐	IC	☐ ☐ ☐ ☐	SS	☐ ☐ ☐ ☐	S	☐ ☐ ☐ ☐	AA	☐ ☐ ☐ ☐	A	☐ ☐ ☐ ☐	C	☐ ☐ ☐ ☐	SST	☐ ☐ ☐ ☐
PART NO.		DS CAT No.		AHSP											

TOP VIEW SHOWN WITHOUT TOP CASE

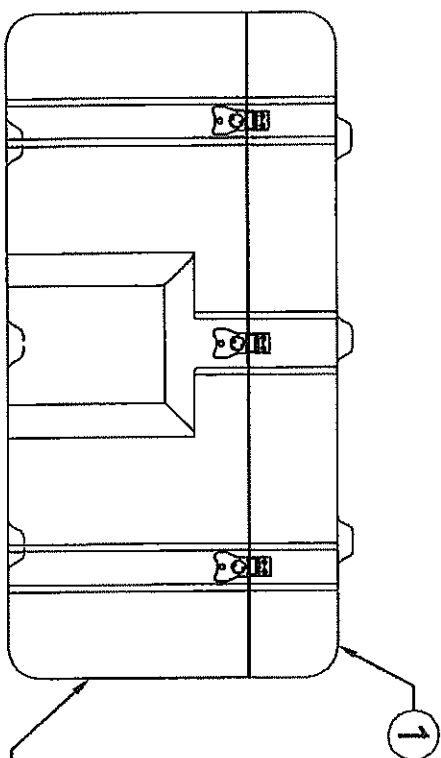
R No	DATE	AUTHORITY	BRIEF RECORD				ZONE	CD	GO
	DRN	CHD	MATERIAL :				SIGN		
SURAJ	G J L V A N D E								
APPD DATE	6/10/23	B. S. GURAV FOR DIRECTOR	PROTECTIVE FINISH :						
SEALED DATE -			ASSY. DRG. No :						
SCALE - NTS	EST MASS	TITLE	PACKAGING BOX ASSEMBLY FOR PINAKA						
DESIGN AUTHORITY	APPR. 46.0 kg		ROCKET ACCESSORIES (FILLED)						
ARDE									
DRG No	8603	IC	02	05	00	00	00	00	00
		SS		S	AA	A		C	SST
PART No		DS CAT No	AHSP						

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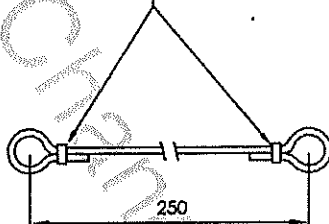
1 2 3 4 5 6 7 8

SS 000 000 10 00 50 20 3098 ON GRD

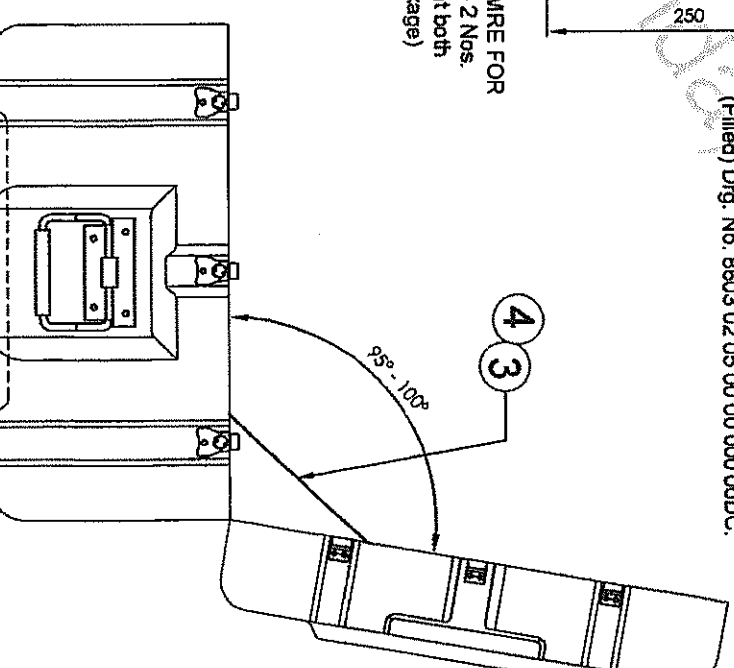
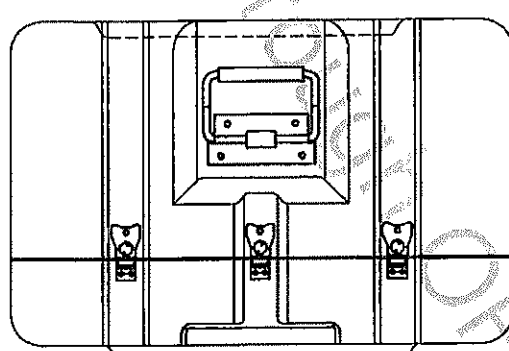
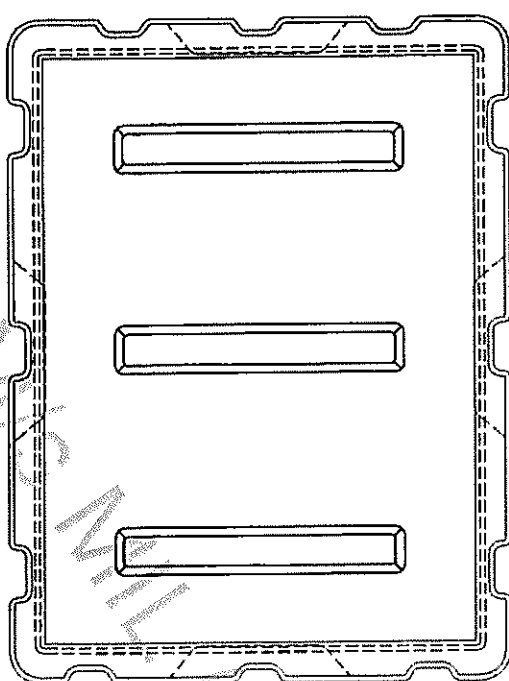
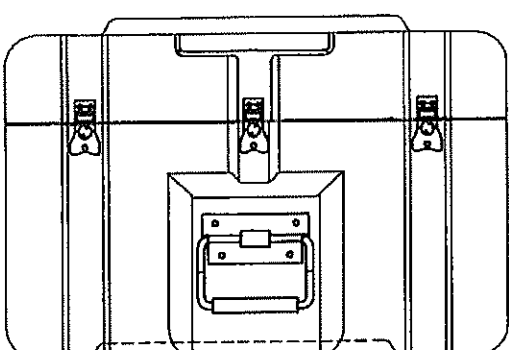
GEN TOL : COARSE CLASS TO IS : 2102 DRG CONVENTIONS CONFORM TO INDIAN STD.
DIM IN mm UNLESS OTHERWISE STATED



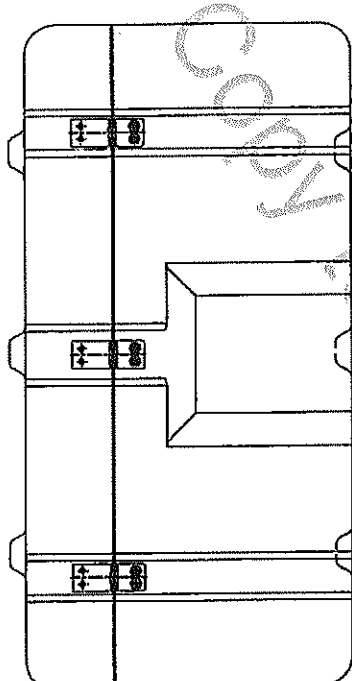
Al / Cu. Sleeve Crimping.
Eyelet size to suit Rivet Dia



SUPPORT WIRE FOR
TOP CASE - 2 Nos.
(to be fitted at both
sides of package)



VIEW TO INDICATE ASSEMBLY OF
SUPPORT WIRE FOR TOP CASE



LIST OF COMPONENTS		
Sl No.	DISCRPTION	DRAWING NUMBER
1	TOP CASE ASSEMBLY (WITH FOAM)	8603 02 05 01 03 000 00DA
2	BOTTOM CASE ASSEMBLY (WITH FOAM)	8603 02 05 01 03 000 00DA
3	SUPPORT WIRE FOR TOP CASE ASSEMBLY	STANDERED
4	Ø 2 X 16 LONG AL SHANK STEEL RIVETS	STANDERED (FOR ASSEMBLY OF SUPPORT WIRE)

- NOTE:
- Support Wire to be made using commercially available Steel Wire rope Ø 1.6 mm. Loop at both ends to be formed as shown. To be fitted to Bottom & Top Case using Ø 2 X 16L Al. Shank steel rivet at both ends ensuring that the Top Case opens between 95 - 100 deg.
 - For qualification test, acceptance test, terms and conditions, refer the notes on the drawing of package for Pinaka rocket accessories (Filled) Drg. No. 8603 02 05 00 00 000 00DC.

R No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN	SURAJ	CHD	GILWADE			
APPD	DATE	6/10/23	FOR DIRECTOR			
SEALD	DATE	6/10/23	FOR DIRECTOR			
SCALE - NIS	EST MASS	23 ± 1 kg				
DESIGN AUTHORITY	ARDE					
DRG No	8603	02	05	01	03	000 00DA
PART No	DS CAT No	ASIP				

PACKAGING BOX ASSEMBLY FOR
PINAKA ROCKET ACCESSORIES (EMPTY)

RESTRICTED

RESTRICTED

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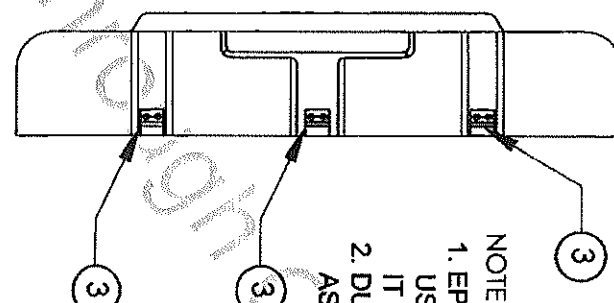
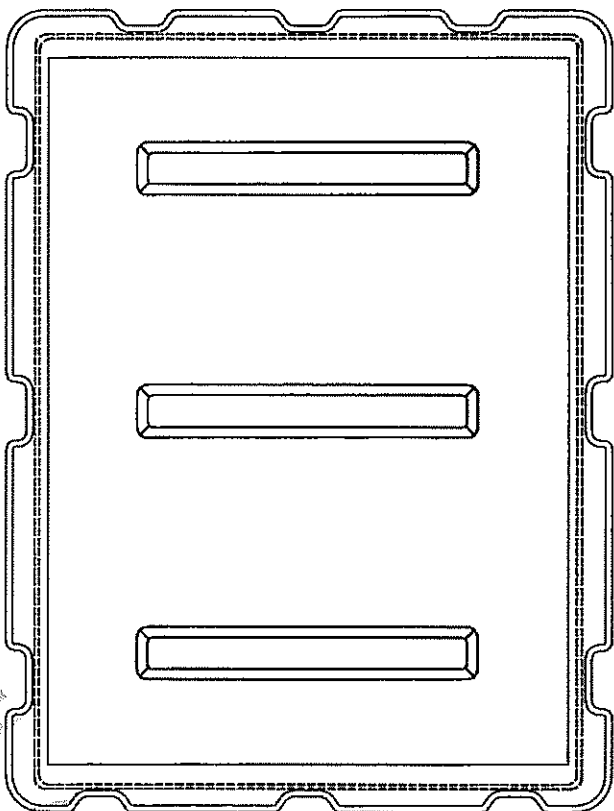
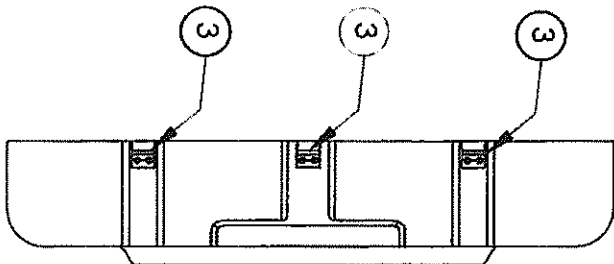
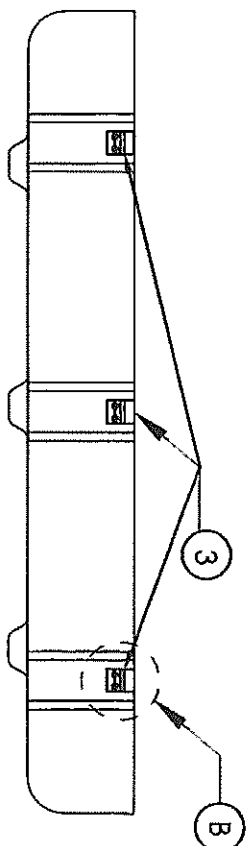
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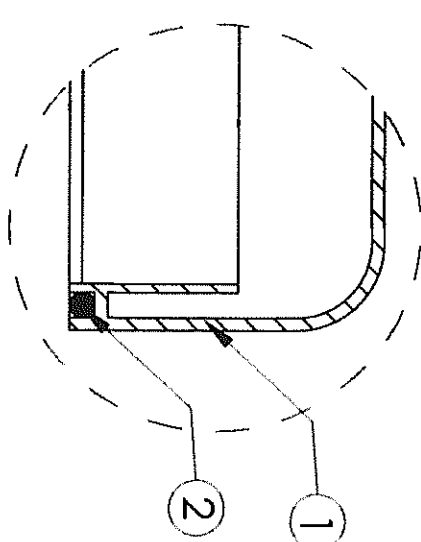
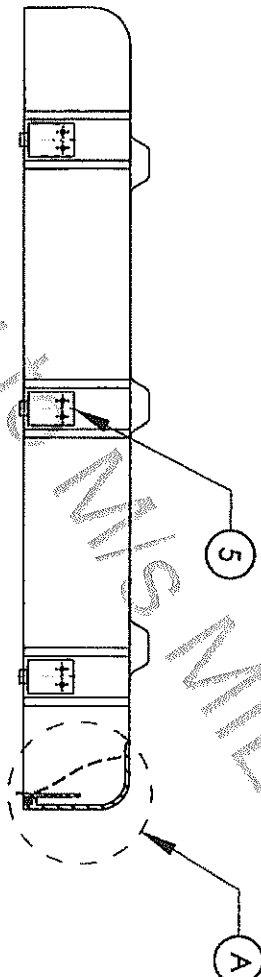
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GEN TOL COARSE CLASS TO IS 2102

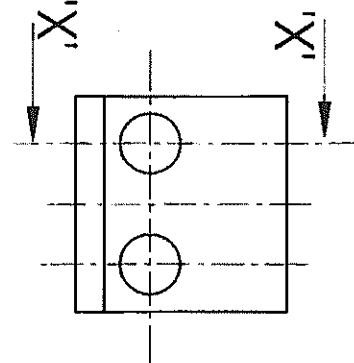
DRG CONVENTIONS CONFORM TO INDIAN STD.
DIM IN mm UNLESS OTHERWISE STATED



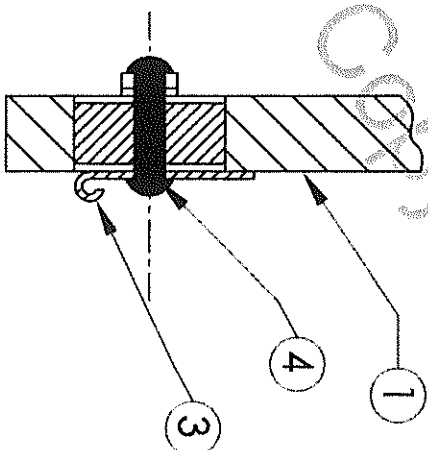
NOTE:
1. EPDM RUBBER GASKET ITEM NO. 2 SHALL BE PASTED IN THE GROOVE OF TOP CASE USING DENDRITE PC 65 TO JSS 0405 :2000 OR FEVICO SR 998 FW OR EQUIVALENT. IT SHALL BE ENSURED THAT THE BOTH THE FREE ENDS BUTT AGAINST EACH OTHER
2. DULY CLEARED HOOK OF LATCH ASSEMBLY SHALL BE FITTED / INTEGRATED AS SHOWN IN DRG. WITH ITEM NO.4



ENLARGE VIEW AT 'A'



ENLARGE VIEW AT 'B'



SECTION 'X-X'

LIST OF COMPONENTS

Sl. No.	Description	Drg. No.	Qty
1	Top Case	8603 02 04 05 00 001 00DC	1
2	EPDM Rubber Gasket Ø10mm + 2mm of Rubber Profile 1606 of hardness 25 Shore A max.	Standard (Length as required)	1
3	Quarter Turn Latch Assembly (Hook Side)	8603 02 04 05 07 000 00DA	9
4	Ø3.2 X 7 MM SS 304 RIVETS	Standard (FOR LATCH ASSY.)	18
5	Hinge Assembly	8603 02 04 05 08 000 00DB	3
6	Ø3.2 X 7 MM SS 304 RIVETS	Standard (FOR HINGE ASSY.)	6

1.	06/10/23	GH PINAKA	CHANGES IN COMPONENTS	—	—	—
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R No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
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DRN	CHD	B.S. GURAV	MATERIAL:			
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APPD DATE	17/12/23	G.S. GUINAPARE FOR DIRECTOR	PROTECTIVE FINISH:			
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SEALED DATE	17/12/23	ASSY DRG No. 8603 02 04 01 03 000 00DC				
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SCALE - NTS	EST MASS	TITLE				
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DESIGN AUTHORITY	ARDE					
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DRG No	8603	02	04	01	03	000 00DC
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PART No	DS CAT No	AHSP				
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RESTRICTED

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RESTRICTED

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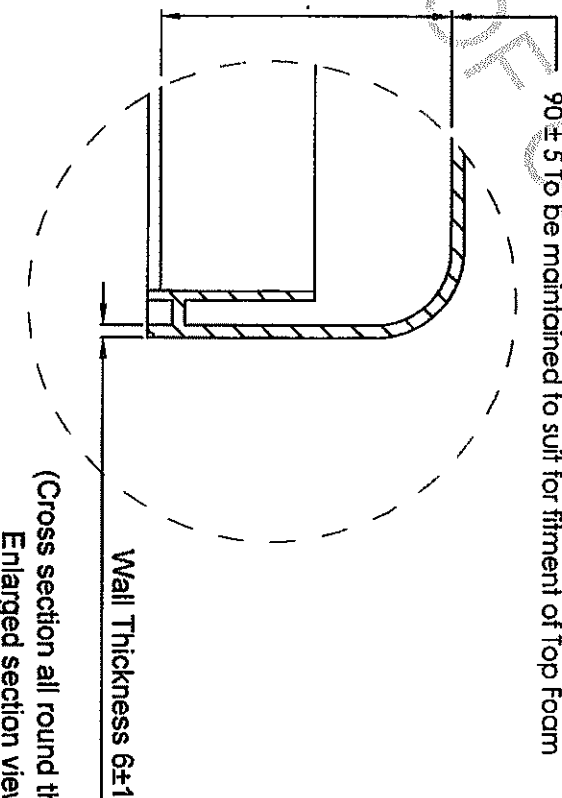
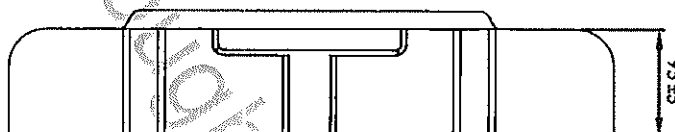
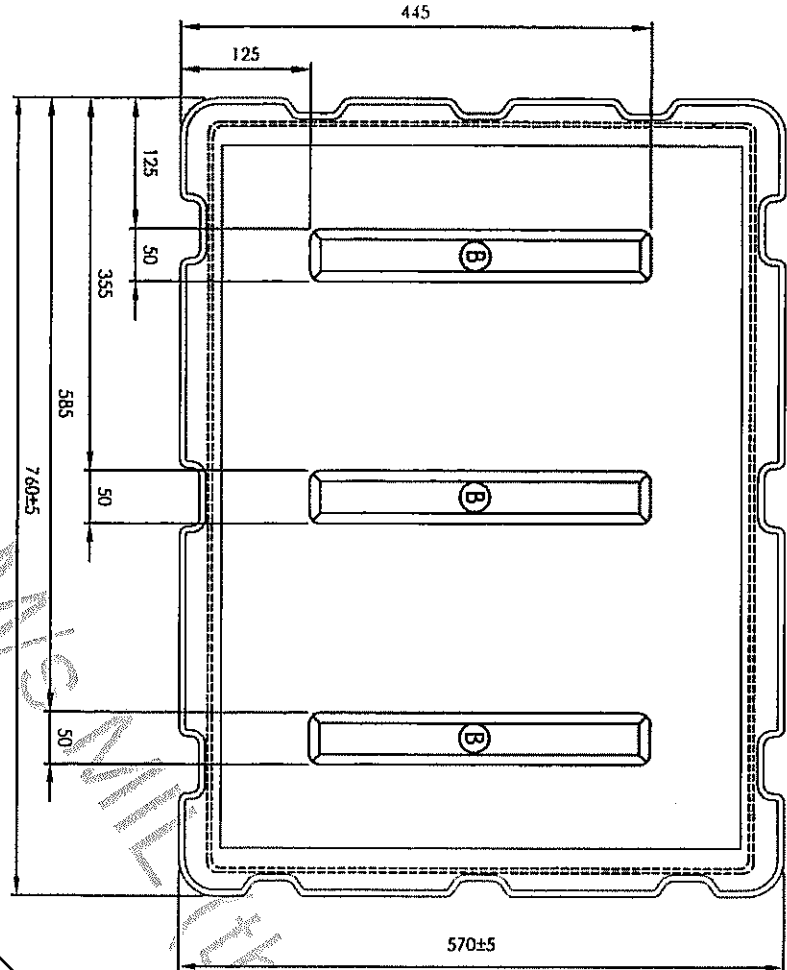
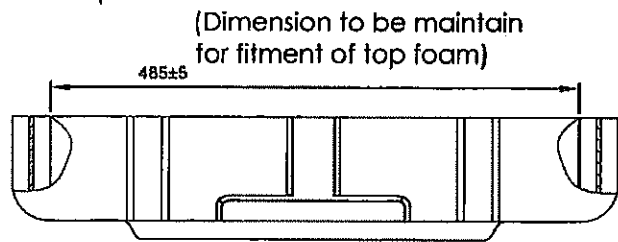
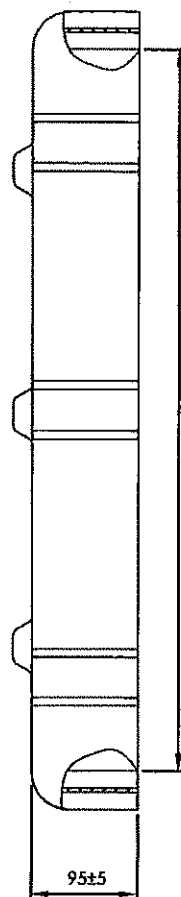
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

GEN TOL COARSE CLASS TO IS 2102
DRG CONVENTIONS CONFORM TO INDIAN STD.
DIM IN MM UNLESS OTHERWISE STATED

(Dimension to be maintain for fitment of top foam)
67 $\pm$ 5



(Cross section all round the case)
Enlarged section view A

- Note :
- Method of manufacture : - Roto Moulding.
 - Top Case shall be leakproof.
 - Colour : Olive Green Shade no. 220 to IS : 5.2004
 - The Dimensions & the no. of Grooves , Ribs, Slots, Strengthening sections & reinforcement features of corners shall be provided to meet the compliance of test requirements of the package assembly.
 - A draft angle of 5° $\pm$ 1° has been found suitable during development of the package, however, the package manufacturer is free to change the angle to meet his process requirement.
 - Dimensions shown on drawing are at the opening side of the Top Case.
 - Dimensions to be measured at the opening side and closing bottom side of the Top case shall be frozen before clearing of mould / die and shall not be altered without prior permission of the Inspection agency.
 - Minimum 5 mm thickness shall be maintained where ever not shown in the drawings.
 - Dimensions of the projected feature 'B' should maintained/adjusted in the mould such that multiple packages can be stacked one above the other. (Top case projection should sit in the cavity of bottom case)

3.	06/10/23	GH PINAKA	FOR 490 $\pm$ 5 READ 485 $\pm$ 5	C-1					
2.	06/10/23	GH PINAKA	FOR 276 READ 90	C-5.6					
1.	06/10/23	GH PINAKA	FOR 100 $\pm$ 5 READ 95 $\pm$ 5	A-4 & B-5					
R No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO	SIGN		
DRN	CHKD	AS GURAV	MATERIAL : Linear Low Density Polyethylene						
NKN	RECLD	035042 - OR - Equivalent	PROTECTIVE FINISH :						
APPD	DATE	06/10/23	FOR DIRECTOR						
SEALED	DATE	06/10/23	FOR DIRECTOR						
SCALE - NTS	EST MASS	TITLE	ASSY DRG NO. 8603 02 04 03 05 000 00DC						
DESIGN	AUTHORITY	ARDE	TOP CASE						
DRG No	8603	02	04	03	05	000	00DC		
PART NO	DS CAT No	AHSP							

RESTRICTED

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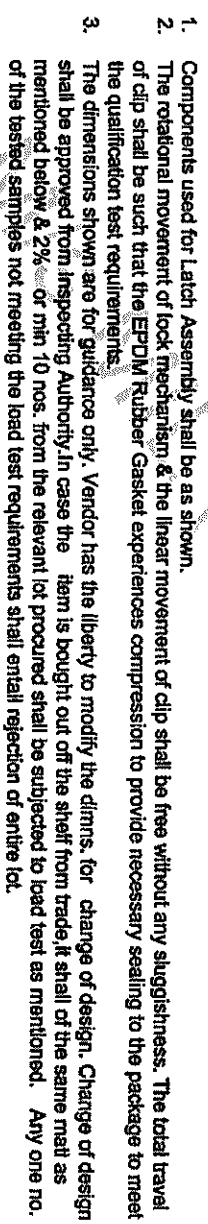
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GEN. TOL. MEDIUM CLASS TO IS:2102

DRAWING CONVENTIONS CONFORM TO INDIAN STD
DIMNS IN mm UNLESS OTHERWISE STATED.

Testing:
Assy. shall be subjected to a Pull Load Test of 35kgf min.



Note:

SEALED DATE	ASSY. DRG. No.:-
8603 02 04 03 05 000 00DC	
8603 02 04 04 06 000 00DC	

SCALE : NTS	EST. MASS	TITLE
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DESIGN
AUTHORITY
ARDE



QUARTER TURN
LATCH ASSEMBLY

DRG No 8603 02 04 05 07 000 00DA

PART No	IC	SS	S	AA	A	C	SS
1							
2							
3							
4							

1	2	3	4
RESTRICTED			
5			
6			
7			
8			

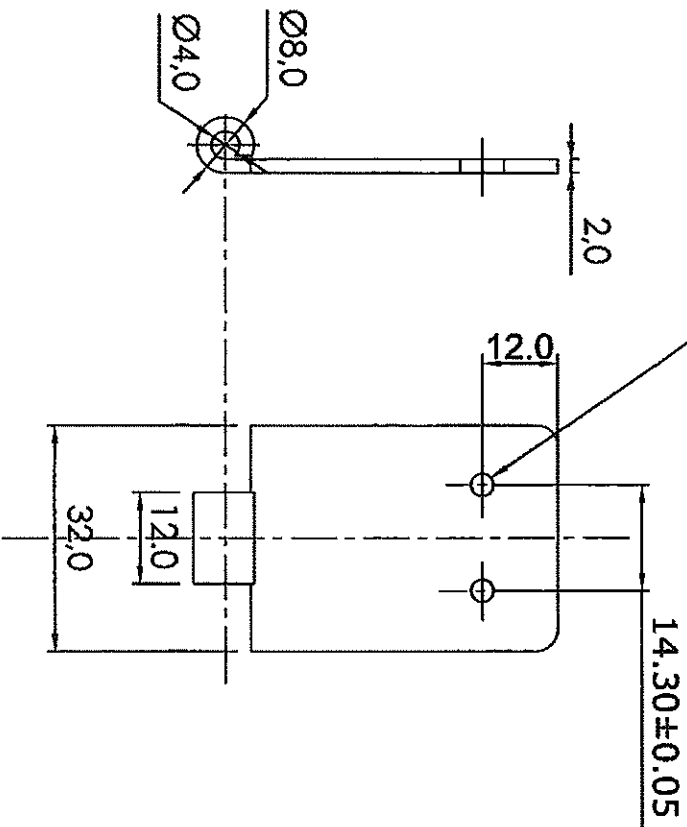
GEN. TOL. FINE/MEDIUM/COARSE
CLASS TO IS:2102 Pt I & II, 1993

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

TOP PLATE

$\varnothing 3.30 \pm 0.2$ (2 Holes)

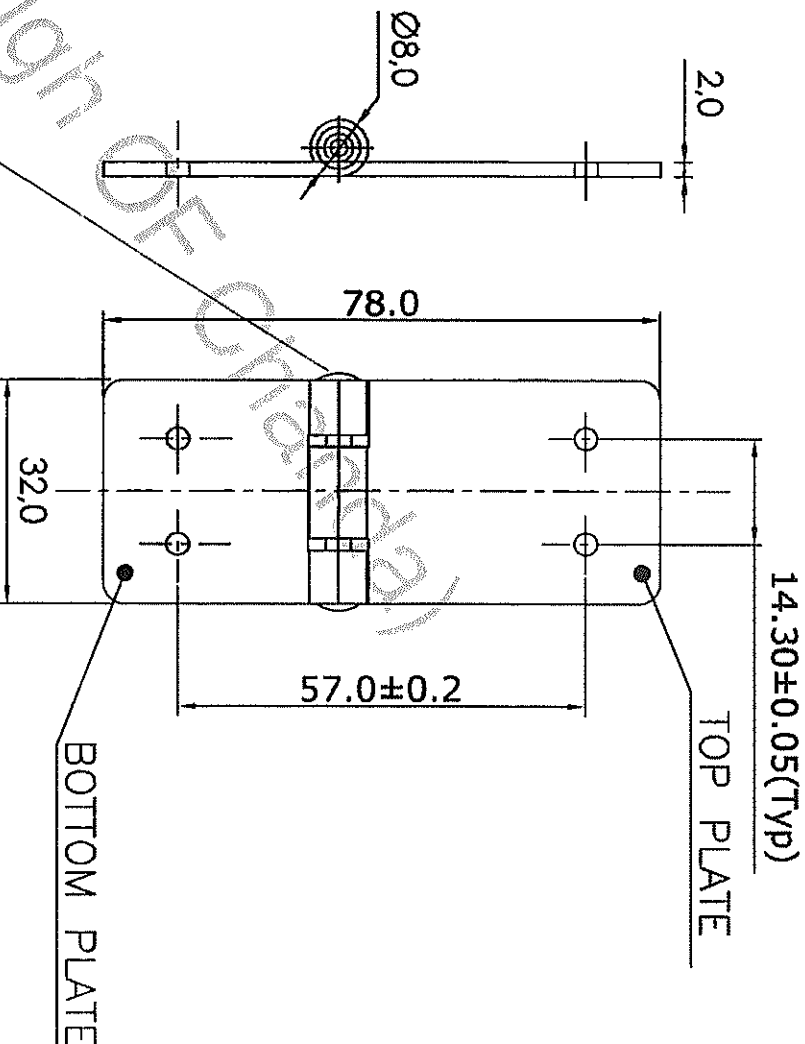
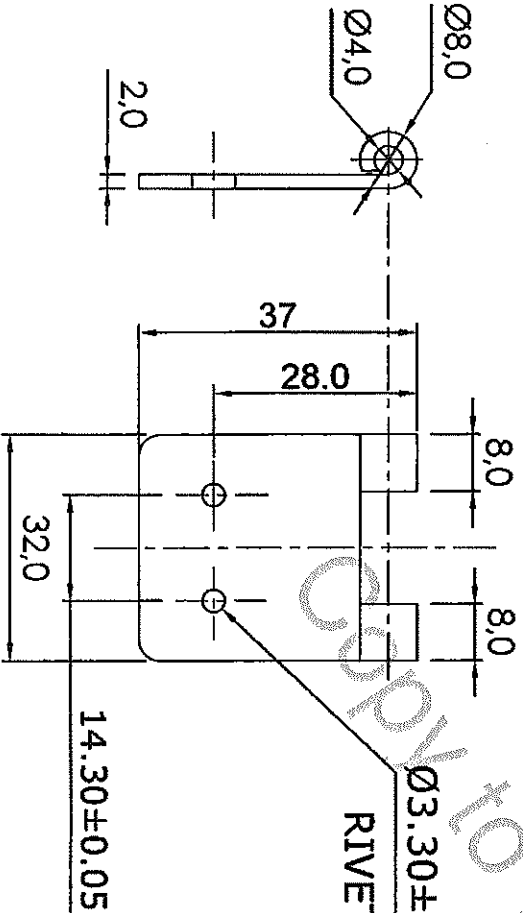
RIVET TYPE



BOTTOM PLATE

$\varnothing 3.30 \pm 0.2$ (2 Holes)

RIVET TYPE



$\varnothing 3.5 \times 34$ long SS Pin Rivetted on both side
2 QTY:1 PER ASSY

2.	27/11/19	GH PINAKA	DIM CHANGED IN TOP PLATE & BOTTOM PLATE		B-1,2 E-3,4
1.	27/11/19	GH PINAKA	COMPONENT BACK PLATE REMOVED		F-4,5
Sr. No.	DATE	AUTHORITY	BRIEF RECORD		ZONE
DRN. NKN	CHD. B S CURRAY	MATERIAL		Stainless Steel sheets Type 304	
APPD. DATE	6/11/23	S. GUNNAPURE For Director	PROTECTIVE FINISH		BLACKED ED/CHEMICAL COATED
SEALED DATE					
SCALE	EST. MASS	TITLE			
DESIGN AUTHORITY	ARDDE	HINGE ASSEMBLY (RIVET TYPE)			
PUNE 411021					
DRG. No.	8603	02	04	05	08
IC	SS	S	AA	A	C
PART No.	DS CAT. No.	AHSP		SST	

RESTRICTED

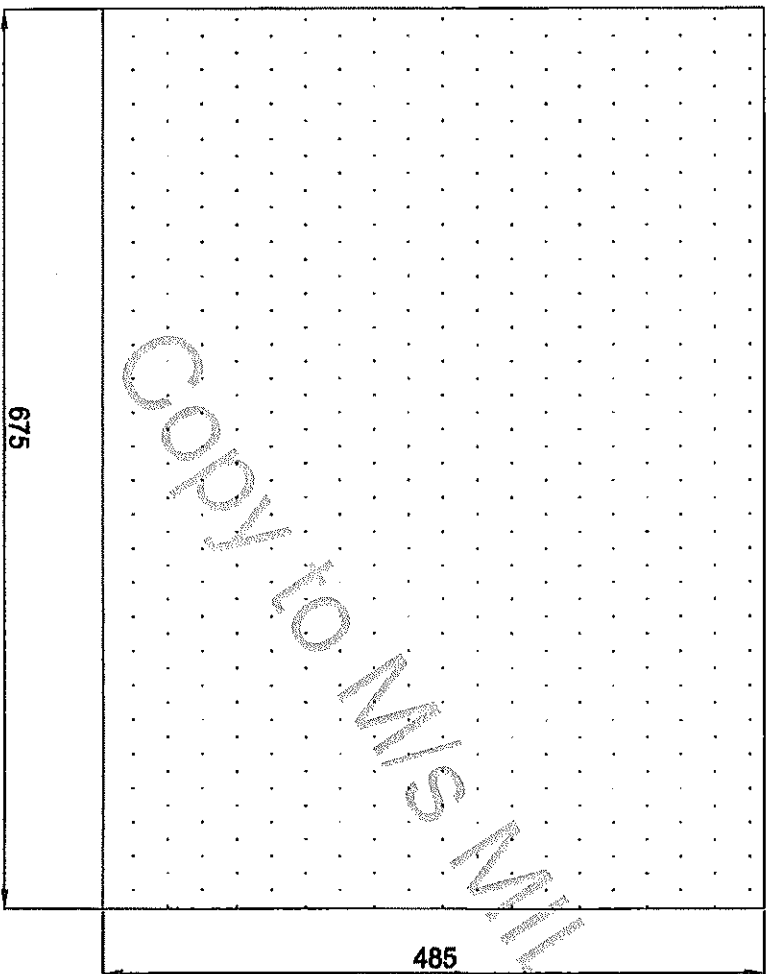
1	2	3	4
JSS	C	V	YV
0000	1000	0000	3040
SS	S	SS	CI
0020	3098	ON	GRD

GEN. TOL : COARSE CLASS TO IS:2102

DRAWING CONVENTION CONFORM TO INDIAN STD. DIMNS. IN mm UNLESS OTHERWISE STATED.

NOTE :
1. MATERIAL :

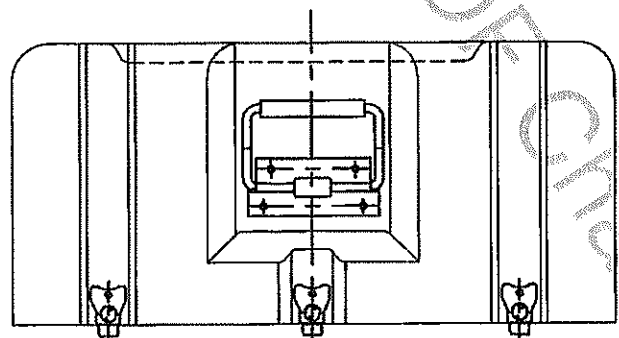
- Cross Linked Polyethylene Foam, XLPE - Black to IND/ME/1022 (Prov) - 2008, Type II.
Density (Min) - 60 to 70 kg / m3 & % of compression (Min) - 0.6%.
2. ADHESIVE : Dendrite , PC 65 to spec JSS 0405 - 2000, or Fevicol SR 998 FW or equivalent
3. The component may be manufactured using the foam material built up in layers to form the geometry.
4. The layers shall be pasted using adhesive Dendrite PC 65 to JSS 0405 - 2000 or Fevicol SR 998 FW. Delamination of layers shall not be accepted.
5. Overall Dimensions are for general guidance. Overall mating dimensions to suit inside dimensions of top case shall be maintained for proper fitment.
6. Overall dimensions shall be adjusted for ensuring proper fitment of foam with top case.



1.	06/10/23	GH PINAKA	FOR 670 READ 675	E-3		
R NO.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN. NKN	CHD. B S GURAV	MATERIAL: AS PER NOTE	PROTECTIVE FINISH: MOULDING FINISH			
APPD. DATE: 6/10/23	G S GUINAPURE FOR DIRECTOR					
SEALED DATE:	ASSY. DRG. No. : 8603 02 04 01 03 000 00DC					
SCALE: NTS	EST. MASS	TITLE: TOP FOAM				
DESIGN AUTHORITY ARDE						
DRG. NO	860302040300000DC					
PART NO.	DS CAT No.	AHSP				

[illegible]

DRG CONVENTIONS CONFORM TO INDIAN STD.
DIM IN mm UNLESS OTHERWISE STATED

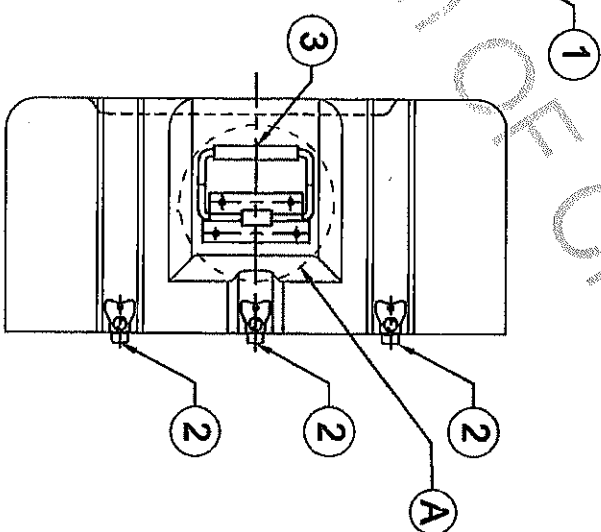
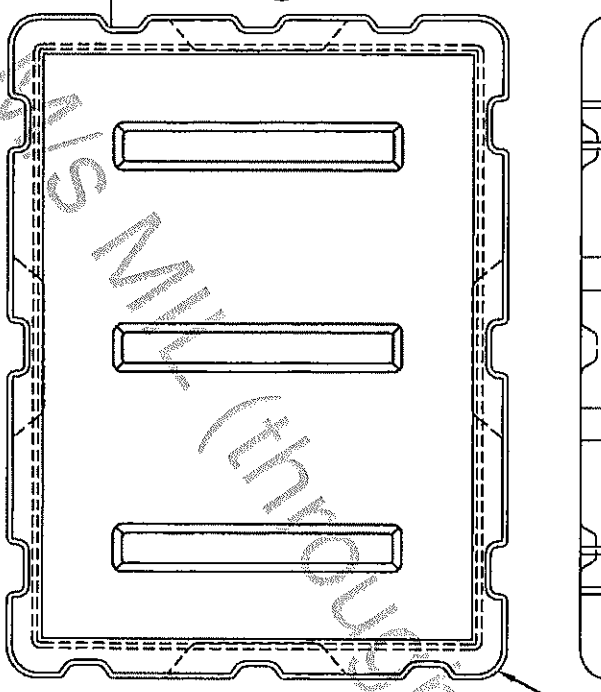
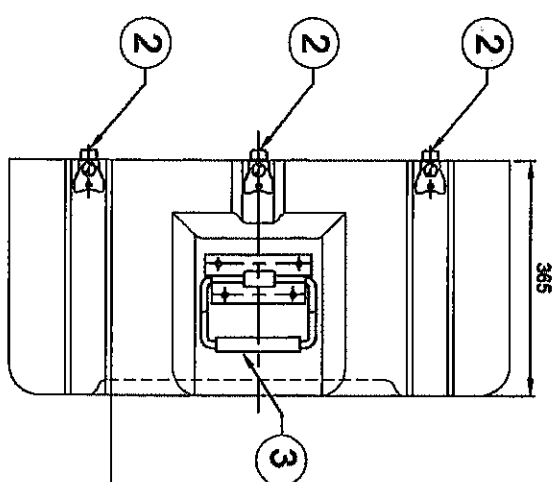
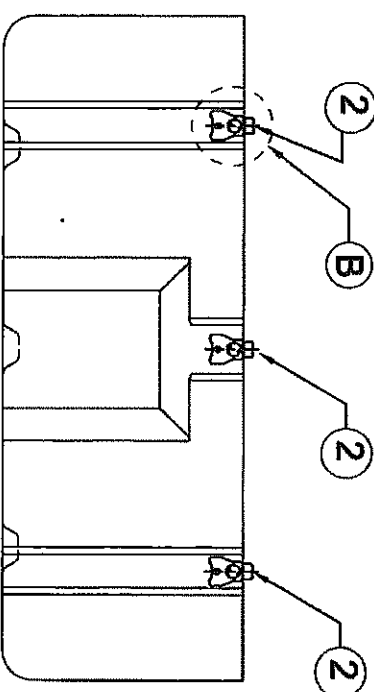


LIST OF COMPONENTS			
Sl No.	DISCRPTION	DRAWING NUMBER	QTY
1	Bottom Case Assembly (With handle, hinge, quarter turn latch)	8603 02 04 04 06 000 00DC	1
2	Bottom Foam	8603 02 05 04 00 001 00DA	1
3	BOTTOM FOAM COVER	8603 02 04 04 00 002 00DA	1

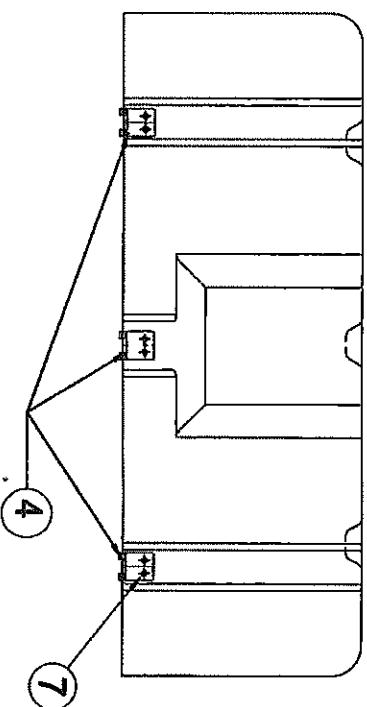
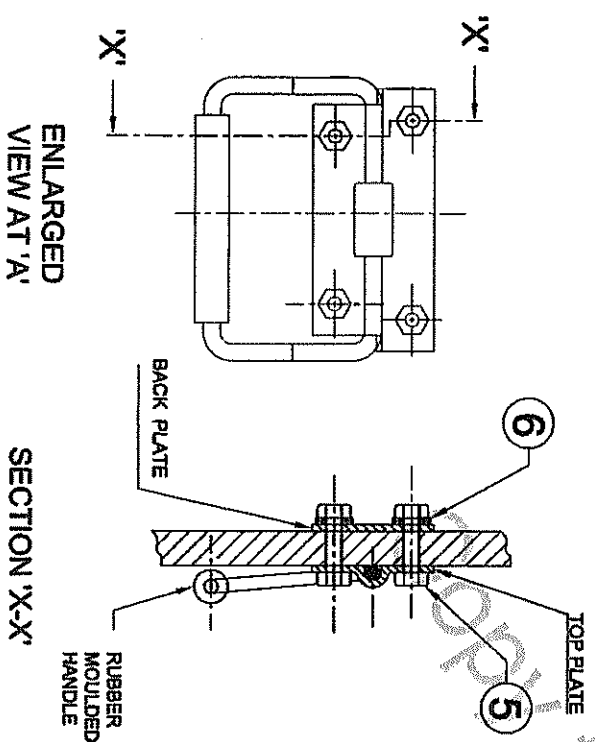
1. Bottom foam shall be pasted to inside of bottom case using adhesive Dentrifit PC 65 to JSS 0405 - 2000 or Fwical SR 998 FW. Debonding shall not be accepted.
2. Bottom foam cover to be inserted in the bottom foam cavity.

R No	DATE	AUTHORITY	BRIEF RECORD		ZONE	CD	GO
D RN	S UBJ	C HD G L A Y K N D E	MATERIAL:				
A PP D A T E	6/16/23	B S G U A R T : P R O T E C T I V E F I N I S H :					
S E A L E D D A T E		A S S Y D R G N O. 8603 02 05 00 01 000 00DA					
S C A L E - N I T S	E S T M A S S	T I T L E					
D E S I G N A U T H O R I T Y A R D E	 		B O T T O M C A S E A S S E M B L Y (W I T H F O A M)				
D R G N O	8 6 0 3	0 2	0 5	0 1	0 4	0 0 0 0	0 0 D A
	IC	SS	S	M	A	C	ST
P A R T N O	D S C A T N O		A N S P				

LIST OF COMPONENTS			
Sl No	DISCRPTION	DRAWING NUMBER	QTY
1	Bottom Case	8603 02 04 06 00 001 00DC	1
2	Quarter Turn Latch Assembly	8603 02 04 05 02 000 000A	2



NOTE:
Latch Assemblies, Handle Assemblies, Hinge Assemblies shall be fitted / integrated as shown in the drawing using standard components as referred at Sl. No. 5 & 6 in list of components.



1.	06/10/23	GH PINAKA	FOR 570 READ 385	C-2.3		
R No	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN NKN	CHD B S GURAV	<i>[Signature]</i>	MATERIAL:		SIGN	
APPD DATE	6/10/23	<i>[Signature]</i>	PROTECTIVE FINISH:			
SEALED DATE		G S GUNAPURE FOR DIRECTOR	ASSY DRG No.	8503 02 04 01 04 000 00DC		
SCALE - NTS	EST MASS	TITLE	<u>BOTTOM CASE ASSEMBLY</u> (With handle, hinge, quarter turn latch)			
DESIGN AUTHORITY ARDE						

(With handle, hinge, quarter turn latch)

DRG No	8603	IC	02	SS	04	S	04	MA	06	A	0000	C	00DC	SST	
PART No	DS CAT No														AHSP

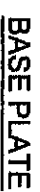
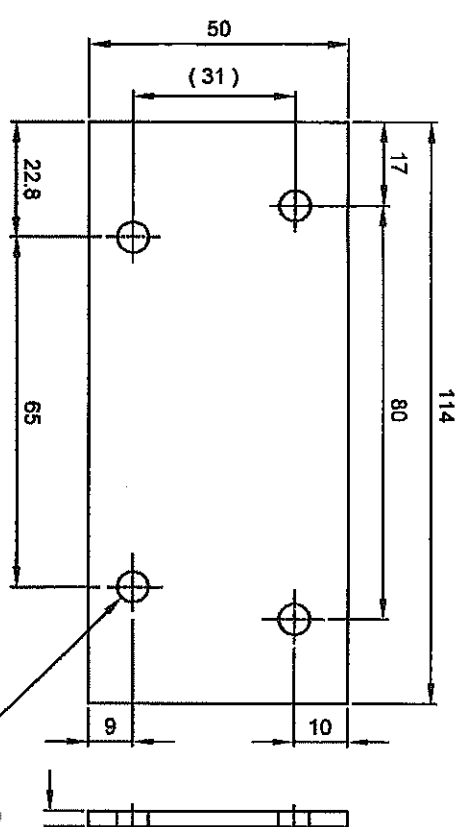
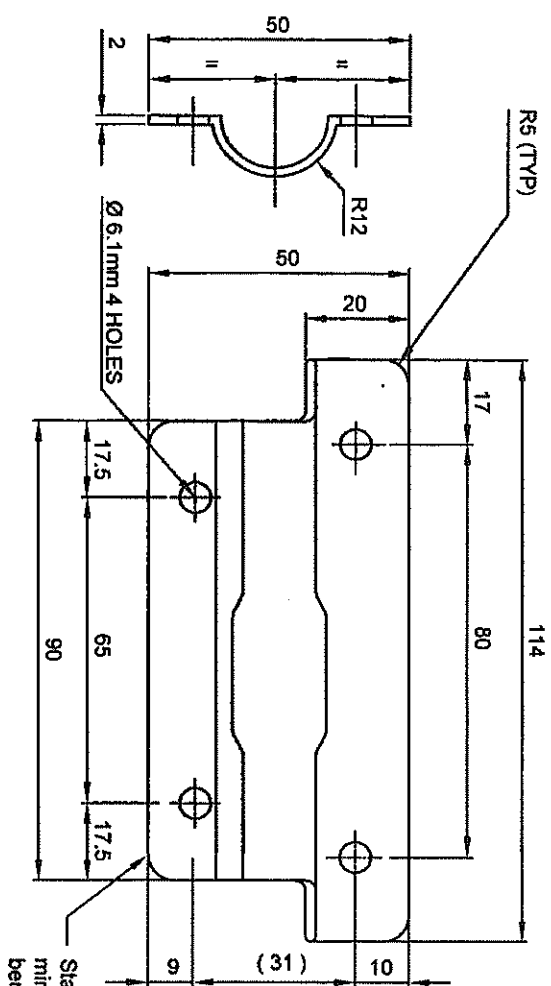
RESTRICTED

6

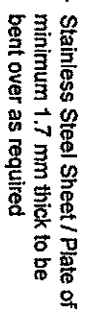
2

5

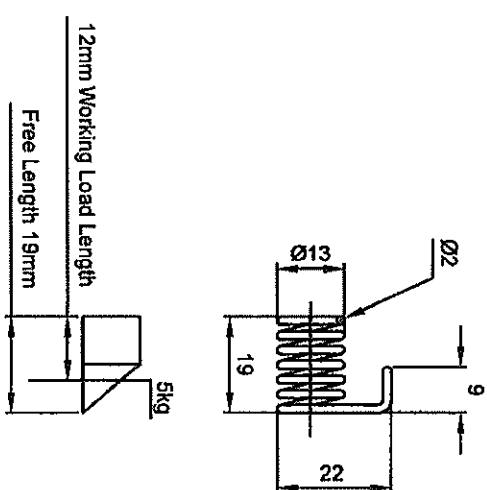
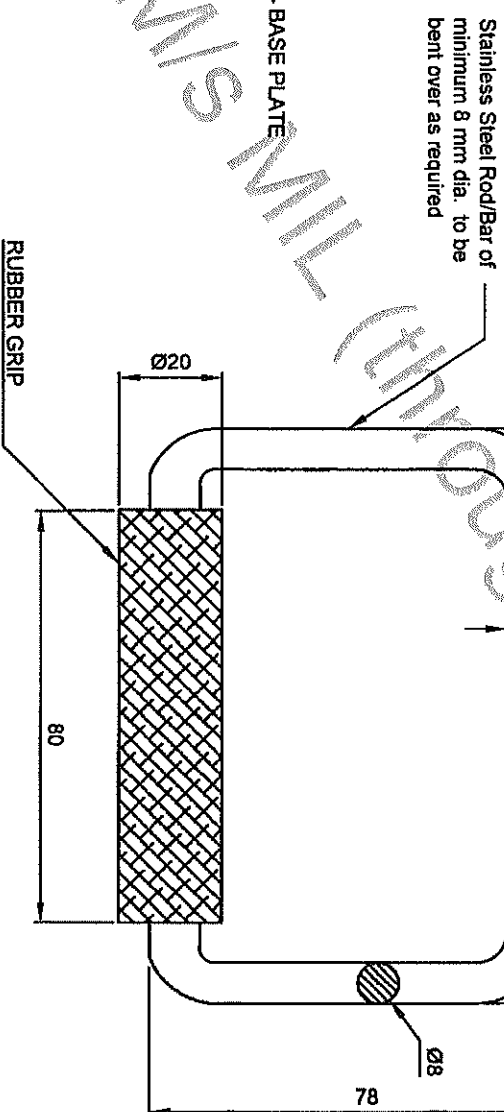
DRG No	8	6	0	3	0	2	0	4	0	6	0	9	0	0	0	C	A	SST								
GEN TOL. MEDIUM CLASS TO IS 2102																	DRG CONVENTIONS CONFORM TO INDIAN STD DIM IN mm UNLESS OTHERWISE STATED									



MATERIAL: Stainless Steel plate Gd X04Cr19Ni9 TO IS:6911:1992
Qty - 1 No. per Assy



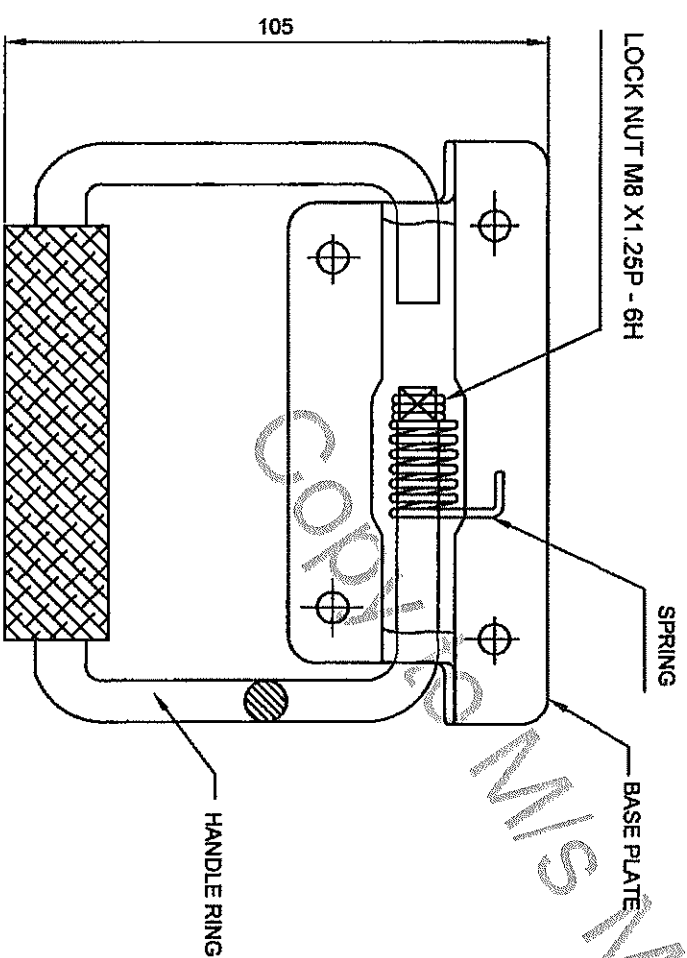
MATERIAL: Stainless Steel plate
Gd X04C19N19 TO IS:6911:1:1992
Qty - 1 No. per Assy



SPRING

MATERIAL: Stainless Steel spring wire to IS:4454-2001, Part 4 Gd 2
Desg : X04Cr19Ni9

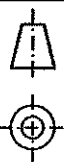
Wire Dia. : 1.5 mm
No. of coils : 6 nos
Free Length : 19mm
One end shall be ground square and
other end shall be formed as shown
Qty - 1 No. per Assy



Material: 1. RING - Stainless Steel bar X04C-r19N19
To IS 6693-2001
2. RUBBER GRP- Neoprene Rubber to
IND / MIE 884 - (PROV)
Qty - 1 No. per Assy

HANDLE RING

HANDLE ASSEMBLY

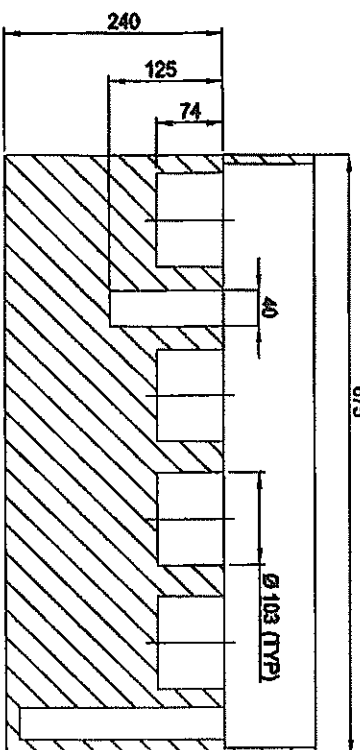
1	08/10/23	GH PINAKA	FOR 17 READ 2	B-1		
R	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
No					SIGN	
DRN		CHD	MATERIAL : AS INDICATED			
NKN		B.S GURAR				
APPD	S S GUINNAPIE		PROTECTIVE FINISH :	BLACKODISED / POWDER COATING		
DATE	11/12/23		FOR DIRECTOR			
SEALED						
DATE -						
SCALE -	NTS	EST MASS	TITLE			
DESIGN AUTHORITY ARDE			HANDLE ASSEMBLY			

Note :

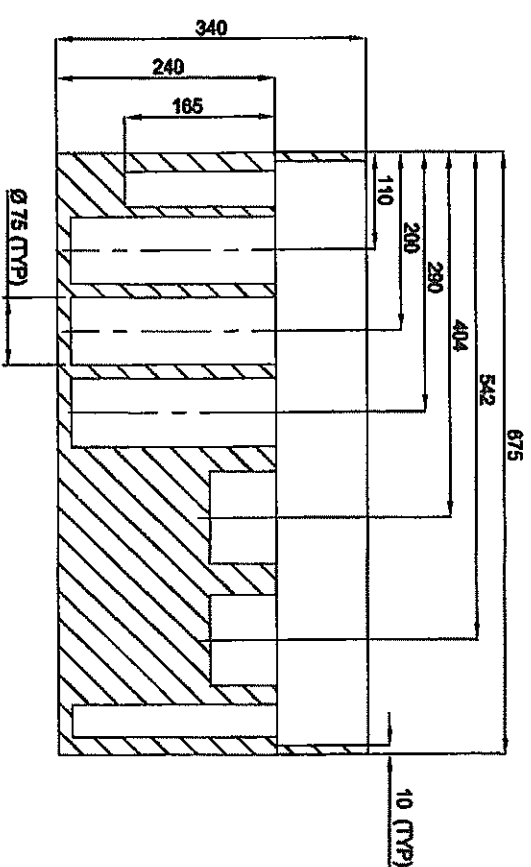
1. Components used for assembly of Handle shall be as shown.
2. The rotational movement of handle of Handle Assembly shall be free without slugs/sluggishness.
3. The dimensions shown are for guidance only. Vendor has the liberty to modify the dimensions for change of design to suit manufacture / bought out & shall be approved by Inspecting Agency prior to Integration. In case the item is bought out from the trade, it shall of the same material as mentioned in the drawing & Qty: 2 % or min 10 nos. from the relevant lot procured shall be subjected to load test as below. Any one no. of the tested samples not meeting the load test requirements then entire lot will be rejected.

Testing : Assembly shall be Pull Load tested for minimum 100kgf load.

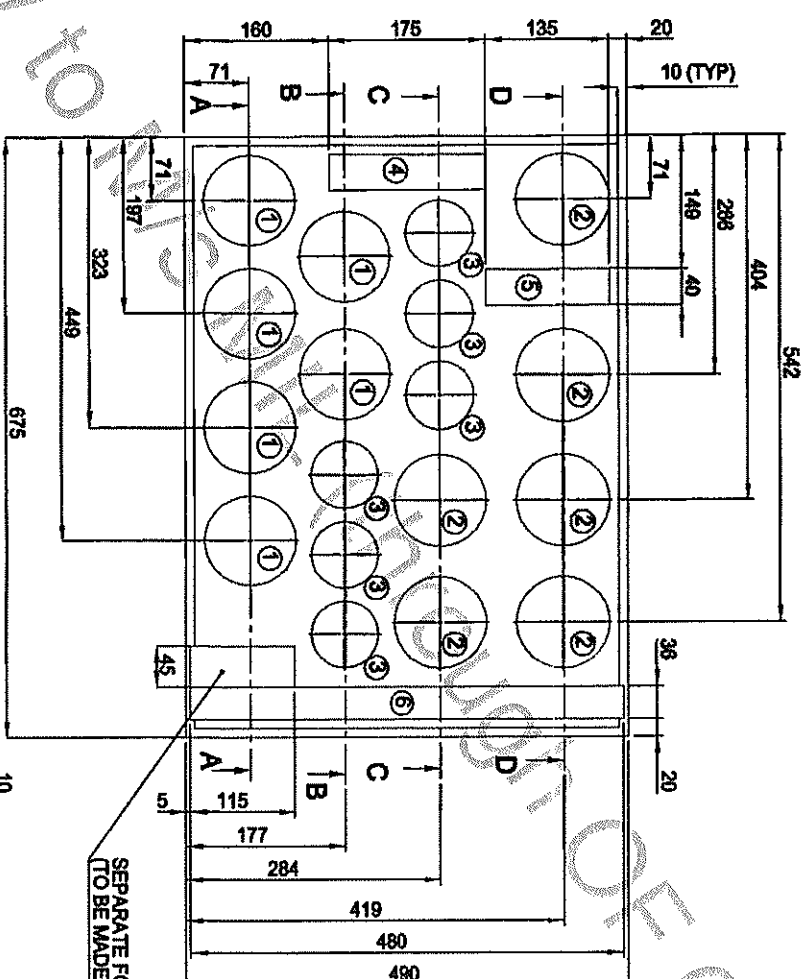
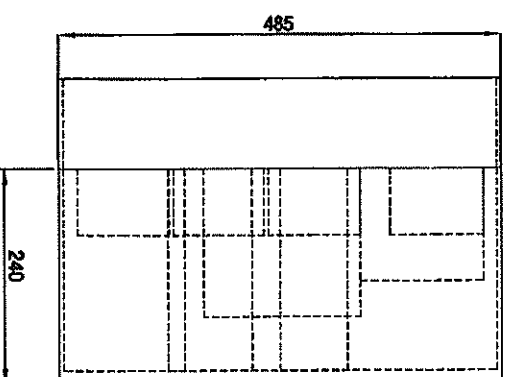
Testing : Assembly shall be Pull Load tested for minimum 100kgf load



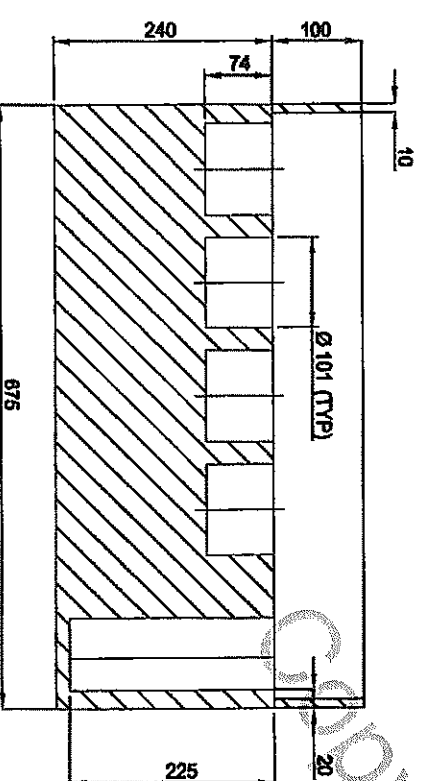
SECTION D-D



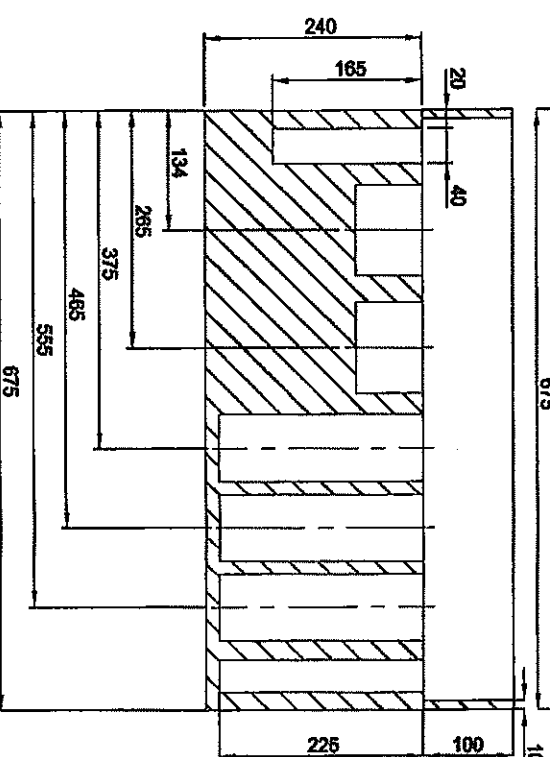
SECTION C-C



**SEPARATE FOAM PIECE OF SIZE 45 X115 X 225 mm
(TO BE MADE REMOVABLE TO ACCESS ROCKET LINKS & PAPER CUTTER)**



SECTION A-A



SECTION B-B

SL. NO.	CAVITY DIMENSIONS	PURPOSE	No. OF CAVITIES
1.	Ø 101 X 74 DEEP	FOR VT FUZE HOLDER MODIFIED	6
2.	Ø 103 X 74 DEEP	FOR VT FUZE HOLDER	6
3.	Ø 75 X 225 DEEP	FOR ET FUZE	6
4.	40 X 175 X 165 DEEP	FOR BRAKE RING (BIG)	1
5.	40 X 135 X 125 DEEP	FOR BRAKE RING (SMALL)	1
6.	36 X 460 X 225 DEEP	FOR ROCKET LINK, SNAP-OFF CABLE & PAPER CUTTER	1

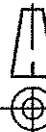
DIMENSIONAL DETAILS

NOTE:

1. MATERIAL:

Cross Linked Polyethylene Foam, XLPE - Black to IND/ME/1022 (Prov) - 2008, Type II, Density (Min) - 60 to 70 kg / m³, & % of compression (Min) - 0.6%.

2. **ADHESIVE** : Dendrite, PC 65 to spec JSS 0405 - 2000, or Fervicol SR 998 FW or equivalent.
3. The component may be manufactured using the foam material built up in layers to form the geometry.
4. The layers shall be pasted using adhesive Dendrite PC 65 to JSS 0405 - 2000 or Fervicol SR 998 FW. Detachment of layers shall not be accepted.
5. **Overall Dimensions** are for general guidance. Overall mating dimensions to suit inside dimensions of bottom case shall be maintained for proper fitment.
6. Overall dimensions shall be adjusted for ensuring proper fitment of foam with bottom case.

R No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRL. SIRAJ	CED. <i>67</i>	GILMANDE	MATERIAL: AS PER NOTE		SIGN	
APRD. DATE: 6 / 10 / 23	B S GILMANDE FOR DIRECTOR	PROTECTIVE FINISH:				
SEALED DATE:			ASSY DRG No.: 8603 02 04 01 04 000 OODA			
SCALE : MTS	EST. MASS	TITLE:				
DESIGN AUTHORITY ARDE		BOTTOM FOAM				
DRG.No	[8][6][0][3]	IC	[0][2][0][5]	SS	S	MA
			[0][4][0][0]	A		
			[0][0][1][]	C		
			[0][0][D][A]	SST		
PART NO.			DS CAT No.		ASHP	

[illegible]

GENERAL MEDIUM/GE-955/7-76 CLASS DRAINING CONVENTION CONFORM TO INDIAN STD
TO IS:2102 DWG IN ¹/₄" UNLESS OTHERWISE STATED

3.0 U/C

M80X2-6H

Ø103±0.1

2 TBM HOLES @8.0X5.0
DEEP AS SHOWN.

Technical drawing of a mechanical part, likely a flange or base plate, showing dimensions and annotations.

Dimensions:

- Top outer diameter: $\phi 71.5$
- Top inner diameter: $\phi 70.0 \begin{smallmatrix} +0.2 \\ 0 \end{smallmatrix}$
- Bottom outer diameter: $\phi 103 \pm 0.1$
- Bottom inner diameter: $M80 \times 2-6H$
- Vertical dimension (left): $43.0 \begin{smallmatrix} +0.1 \\ 0 \end{smallmatrix}$
- Angle (left): 12°
- Angle (top right): $\pm 30'$

Annotations:

- 2 TDMY HOLES $\phi 8.0 \times 5.0$
- DEEP AS SHOWN.

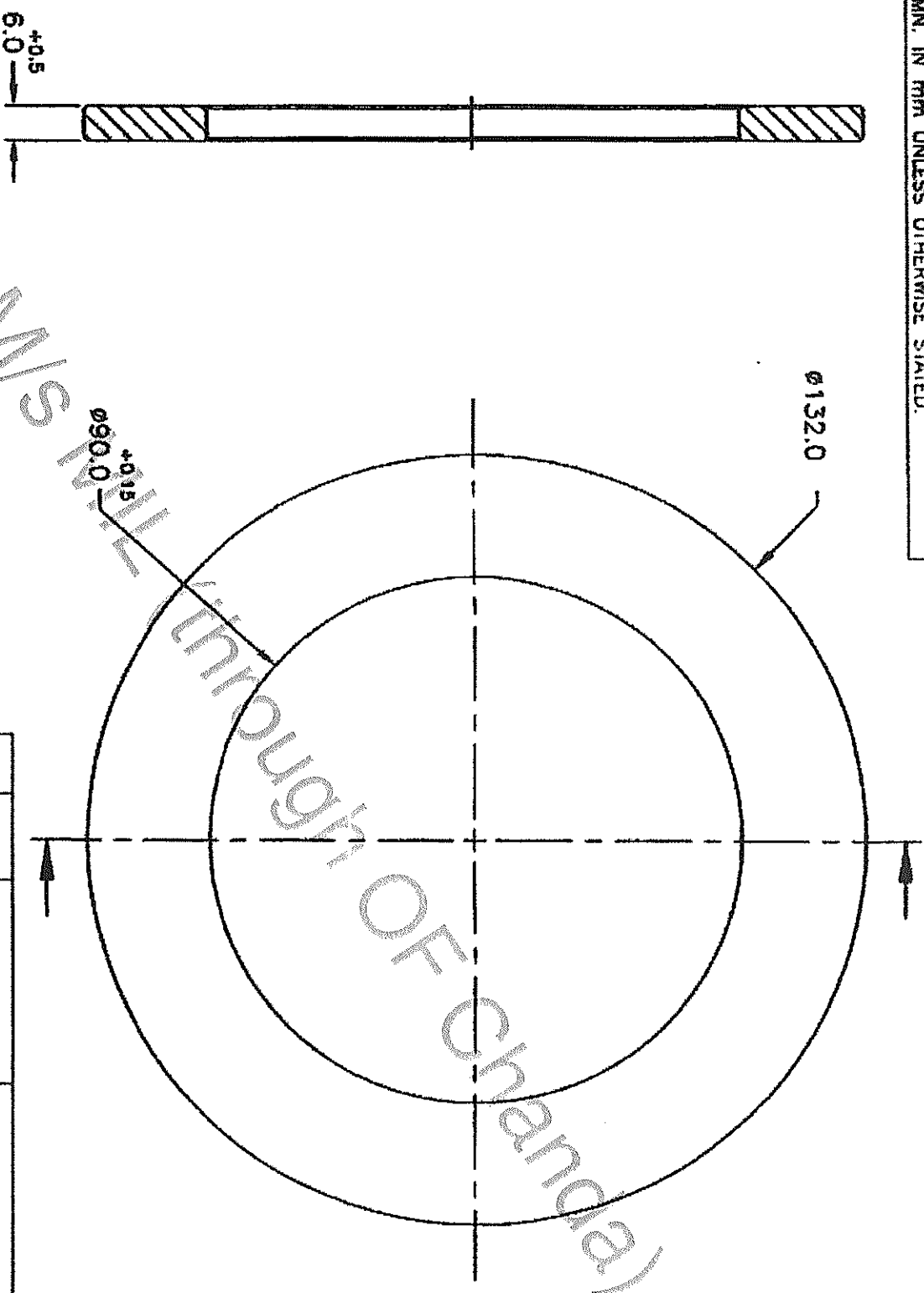
Notes

- 1) DIMNS. APPLY AFTER PLATING.
- 2) BURRS/SHARP EDGES NOT PERMITTED.
- 3) FOR Q4 & QC REFER SPEC NO. ARDE/SPECN/PINAKA/FZ-03

FUZE HOLDER NOSE FOR VT FUZE

R NO.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GD
DRN. TYP	CHD. JSS	MATERIAL: AL ALLOY TO SPEC IS/73-1868 (RA 2011)	2435 WP CONDITION			
APPD. HP DAVE	DATE: 06/03/2020	PROTECTIVE FINISH TO BE ANODISED TO SPEC. IS: 1868 - 1996 AC-10				
SEALED DATE:		ASSY DRG. NO. - 8503 04 05 00 00 000 00PA				
SCALE: 1:1	EST. WEIGHT	TITLE:				
DESIGN AUTHORITY						
ARDE						
DRG. NO.	8603	04	05	000	001	00PA
IC	SS	S	AA	A	C	SET
PART NO.	IS CAT. NO.	ASHP				

A		B		C		D		E		F	
GEN TOL		MEDIUM		CLASS		DRAWING CONVENTIONS CONFORM TO INDIAN STD.		DIMN. IN MM UNLESS OTHERWISE STATED.		NO. DRAWING	
TO IS:2102											
A		D		0		0		1		0	
0		0		0		0		6		6	
6		6		3		0		3		0	
9		8									



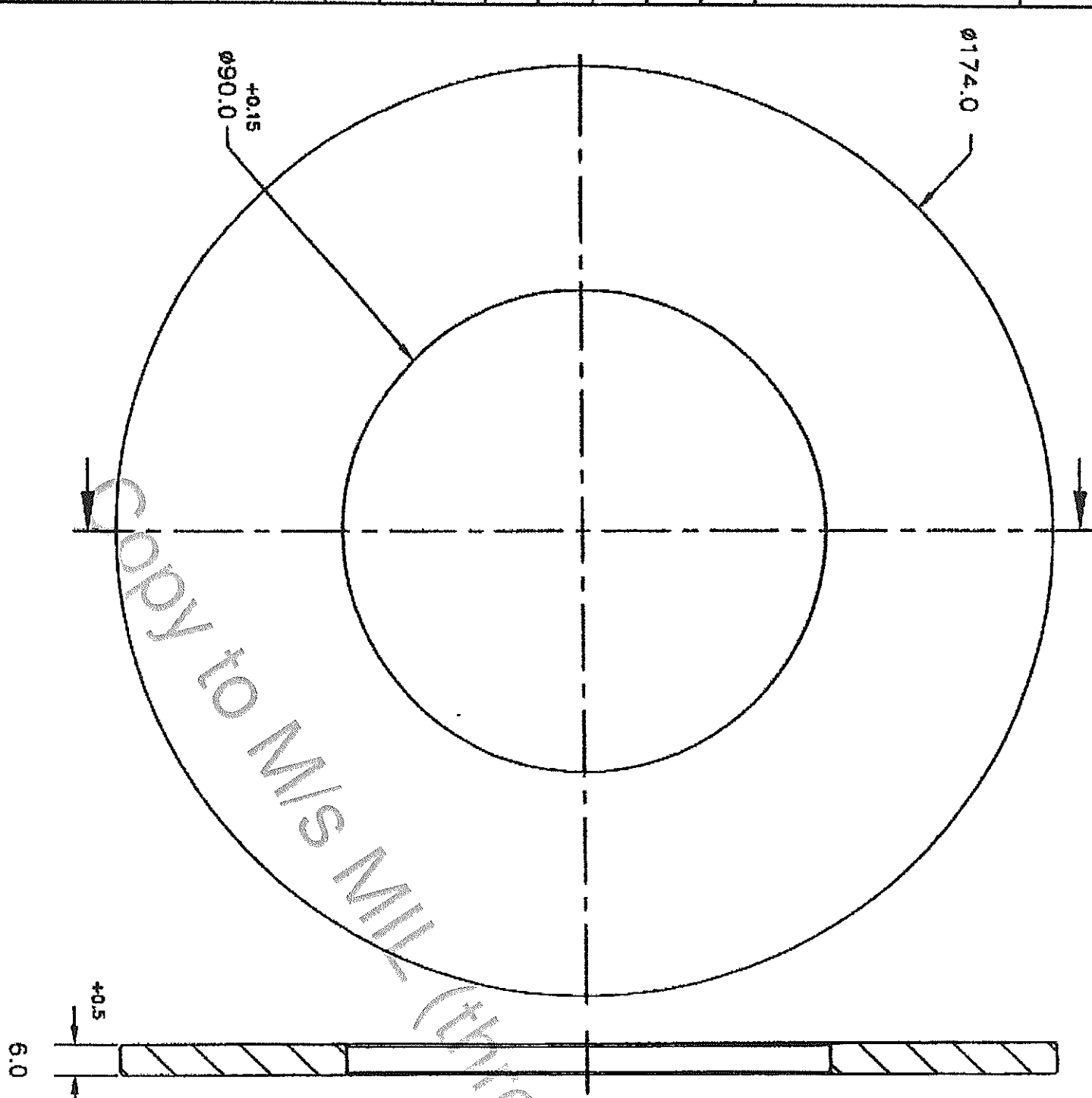
NOTES:-

- FRP LAMINATED STRUCTURE WILL BE DEVELOPED BY
 - E-GLASS (RP 6 CLOTH TO BS:3749, 1974)
 - EPOXY RESIN CY 205/DOBEOT 520F/EQUIVALENT
 - HARDNER DP 720/HY 905/EQUIVALENT
 - PLASTICIZER DY 40/EQUIVALENT
 - ACCELARATOR 803/DY 62/EQUIVALENT
 - FIBRE VOLUME FRACTION SHOULD BE 60 TO 65 %
DENSITY : 1.9 g/cm³ (MIN)
- ACCEPTANCE CRITERIA:
FRP STRUCTURE SHOULD HAVE TENSILE STRENGTH 300 Pa(MINIMUM)
- REMOVE SHARP EDGES
- BEFORE MANUFACTURING, FOR QA & QC REFER QUALITY ASSURANCE PLAN (SPECIFICATION NO. ARDE / PINAKA / SPECN & QAP /WH-36)

R. No.		DATE		AUTHORITY		BRIEF RECORD		ZONE		CD		GO	
DRN.:SRB		DATE:20/02/2020		CHP/SEB		MATERIAL:		SEE NOTE		PROTECTIVE FINISH:		ASSEMBLY DRG NO.: 8603 03 99 00 02 000 00PA	
APPROVED:BR RAO		DATE:20/02/2020		FOR DIRECTOR									
SEALED:		DATE:		SCALE:		EST. MASS:		TITLE:					
ARDE		0.080±0.010 kg		BRAKE RING (SMALL)									
Drawing No.:		8603		03		99		00		00		0011	
PART No.:		8603		03		99		00		00		0011	
DS CAT No.:		8603		03		99		00		00		0011	
Ausp.:		8603		03		99		00		00		0011	



A			
VAD000200000066303098			
GEN TOL. MEDIUM CLASS		DRAWING CONVENTIONS CONFORM TO INDIAN STD. DIMS. IN mm UNLESS OTHERWISE STATED.	
TO IS:2102			



NOTES :-

- FRP LAMINATED STRUCTURE WILL BE DEVELOPED BY
 - E-GLASS (RP 6 CLOTH TO BS:3749, 1974)
 - EPOXY RESIN CY 205/DOBECCOT 520F/EQUIVALENT
 - HARDNER DP 720/HY 905/EQUIVALENT
 - PLASTICIZER DY 40/EQUIVALENT
 - ACCELARATOR 803/DY 62/EQUIVALENT
 - FIBRE VOLUME FRACTION SHOULD BE 60 TO 65 %
DENSITY : 1.9 g/cm³ (MIN) {FOR REFERENCE ONLY}
- ACCEPTANCE CRITERIA :
FRP STRUCTURE SHOULD HAVE TENSILE STRENGTH 300 Pa(MINIMUM)
- REMOVE SHARP EDGES
- BEFORE MANUFACTURING, FOR QA & QC REFER QUALITY ASSURANCE PLAN (SPECIFICATION NO.ARDE / PINAKA / SPECN & QAP /WH-36)

TAPAN SHARMA
लक्ष्मी शर्मा
LT COL
नं. ५०१
DY CONTROLLER
उप निदेशक
FOR CONTROLLER
हथाना निदेशक



R. No.		DATE		AUTHORITY		BRIEF RECORD		ZONE		CD		GO	
DRN:SRB		20/02/2020		CHD		SEE NOTE 1							
DATE:20/02/2020		DATE:20/02/2020		DATE:20/02/2020		DATE:20/02/2020							
APPROVED-BR RAO		B. RAO		FOR DIRECTOR		PROTECTIVE FINISH :							
DATE:20/02/2020		DATE:20/02/2020		DATE:20/02/2020		DATE:20/02/2020							
SEALED :		EST. MASS :		0.19±0.01 kg		TITLE :							
SCALE :		EST. MASS :		0.19±0.01 kg		ASSEMBLY DRG NO. : 8603 03 99 00 02 000 00PA							
DESIGN AUTHORITY :		ARDE		Production, Pooja-Sri		BRAKE RING (BIG)							
DRAWING No. :		8603 03 99 00 02 000 00PA		DS CAT No. :		ANSI :							
PART No. :		8603 03 99 00 02 000 00PA		ANSI :		ANSI :							

CD

LIST OF COMPONENT			
SL.No.	NOMENCLATURE	DRAWING NUMBER	QTY
1	MOISTURE BARRIER BAG	8603 02 05 02 00 001 00DA	1
2	INTEGRATED FUZE ASSEMBLY (ET)	1202 01 00 01 00 000 11PA	1
3	FELT WASHER	8603 03 99 00 00 009 00PA	2

SEAL ON SEALING LINE
(SEALING TO BE DONE USING HOT SEALING M/C AFTER
PUTTING FUZE INSIDE THE BAG WITH NOSE UP)
(FOR SEALING MACHINE DETAILS SEE NOTE)

CUT HERE

10

2 VT FUZE
TO BE HOUSED INSIDE THE BAG

FUZE LOT NO. AND FUZE NO. TO BE WRITTEN WITH BLUE / BLACK PERMANENT MARKER PEN IN THE LABEL AFTER SEALING THE BAG

SEAL

315 (12.5 inch)

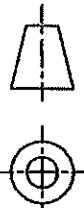
PACK WITH ET FUZE NOSE UP

ET/Fuze Lot No. :
ET/Fuze No. :

172.5 (6.8 inch)

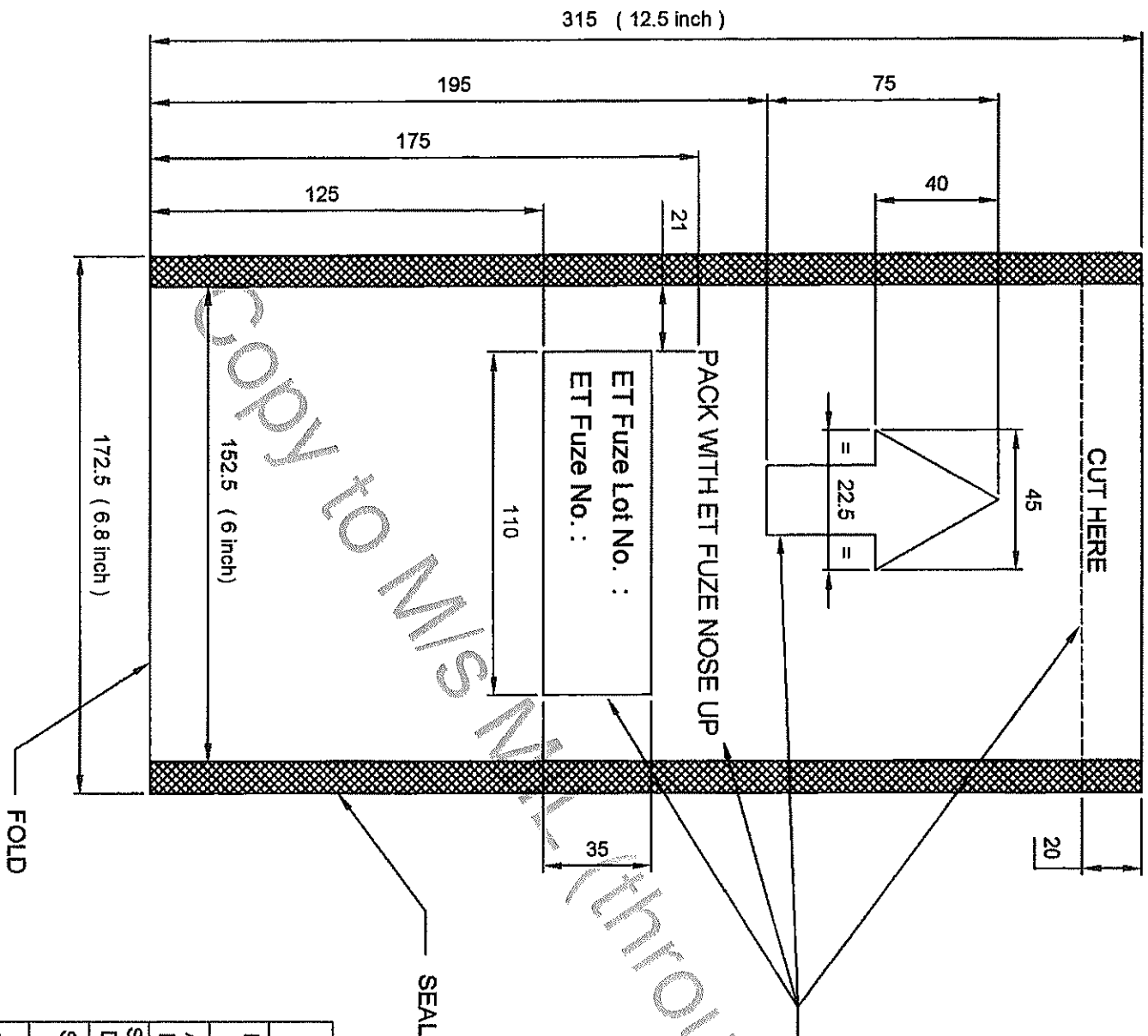
FOLD

NOTE: COMMERCIAL SEALING MACHINE DETAILS :
MAKE : RR ENTERPRISES, AMBEGAON PATTAR PUNE-411046 or EQUIVALENT
MODEL : NOVA-PACK (PLASTIC IMPULSE HAND SEALER)
WATTS : 170 / 250 W
POWER : 230V A.C. 1φ, 50Hz.

R No	DATE	AUTHORITY	BRIEF RECORD		ZONE	CD	GO					
DRN	SURAJ	CHD <i>PS</i> G J LAWANDE <i>PS</i>	MATERIAL:			SIGN						
APPD DATE	6/12/23 B S GURAV FOR DIRECTOR		PROTECTIVE FINISH:									
SEALED DATE			ASSY. DRG. No.:		8603 02 05 00 00 000 00DA							
SCALE - 1:4		EST MASS	TITLE									
DESIGN AUTHORITY			<u>ET FUZE SEALED IN MOISTURE BARRIER</u> <u>BAG (ASSEMBLY)</u>									
ARDE												
DRG No	8	6	0	3	02	05	00	02	00	00	00	DA
	IC				SS	S	AA	A	C			SST
PART No	DS CAT No					AHSP						

03

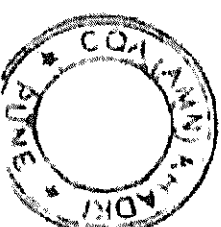
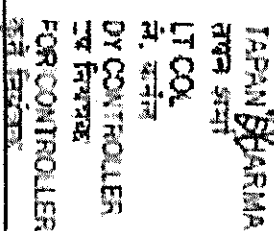
1	2	3	4	5	6	7	8
A				RESTRICTED			
V D 0 0 0 1 0 0 0 0 0 0 2 0 5 0 2 0 3 0 9 8				ON GRD			
GEN TOL : COARSE CLASS TO IS : 2102				DRG CONVENTIONS CONFORM TO INDIAN STD. DIM IN mm UNLESS OTHERWISE STATED			



R No	DATE	AUTHORITY	BRIEF RECORD		ZONE	CD	GO
DRN	SURAJ	CHD	MATERIAL : 3M [™] MOISTURE BARRIER BAG FROM M - CPL TYPE I FILM AS PER SPECIFICATION MIL - PRF - 81705 TYPE I OR EQUIVALENT.				
APPD DATE	6/10/23	B S GUPTA	PROTECTIVE FINISH :				
SEALED DATE			ASSY. DRG. No.:		8603 02 05 00 02 000 00DA		
SCALE - 1:4	EST MASS	TITLE					
DESIGN AUTHORITY	ARDE	MOISTURE BARRIER BAG					
DRG No	8603	02	05	02	00	00	01
PART No	DS CAT No				AHSP		

ORDER NO.

DRAWING CONVENTIONS CONFORM TO INDIAN STD. DIMS. IN mm UNLESS OTHERWISE STATED.



BRIEF RECORD	ZONE	SIGN.	
		CC	CC

MATERIAL: GENERAL PURPOSE WOOL FELT, HARD PRESSED, TO IS 1719:2-2000 (REV 04), PROOFED WITH 0.25% - 0.50% 2,4-DINITRO-ALPHANAPHTHOL OR BOX CLOTH ALL WOOL PLAIN TO SPECIFICATION JSS 8305-16:2009.

PROTECTIVE FINISH

100

III :

FELT WASHER

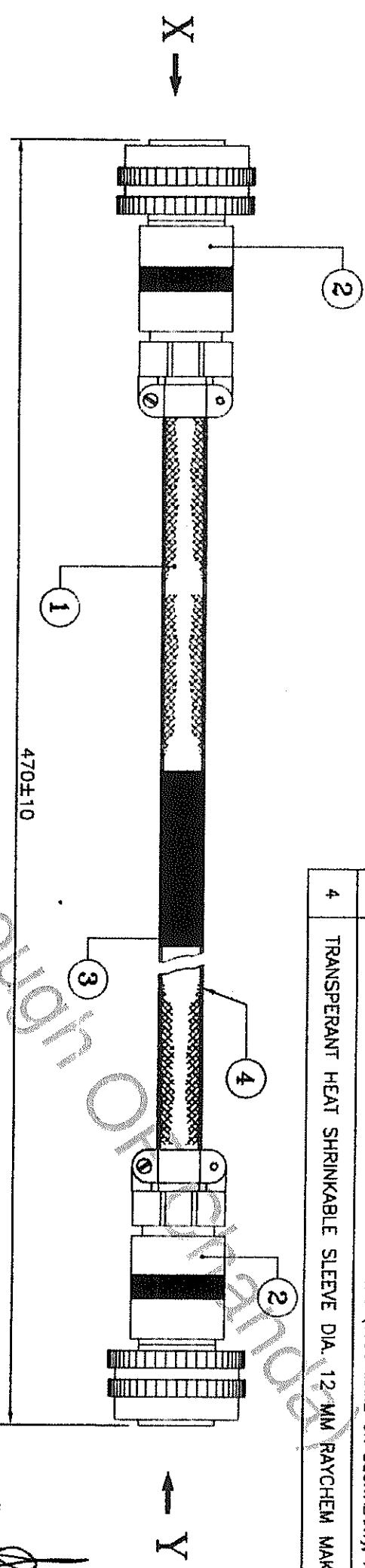
8	6	0	3
0	3	9	9
0	0	0	0
0	0	0	9
0	0	P	A

[illegible]

1	2	3	4	5	6	7	8
V	A	D	E	3	1	0	0
0	0	0	0	7	0	7	0
7	0	1	0	1	0	3	0
9	8						

GEN TOL. MEDIUM CLASS TO IS:2102
DRAWING CONVENTIONS CONFORM TO INDIAN STD.
DIMN. IN mm UNLESS OTHERWISE STATED.

SR No.	NOMENCLATURE	DRAWING NUMBER	QTY.
1	ROCKET LINK	8603-01-01-04-07-000-23PA	1
2	CONNECTOR MG 06FC 14S-2P C3D-1.1 + EB36L + 6A 97B-4106F-14-2P(565)-PB01	STD MAKE ALLIED OR AMPHENOL	2
3	HEAT SHRINKABLE WIRE IDENTIFICATION SLEEVE (TYCO MAKE OR EQUIVALANT), FONT SIZE : MIN 2 MM		1
4	TRANSPERANT HEAT SHRINKABLE SLEEVE DIA. 12 MM RAYCHEM MAKE OR EQUIVALANT		1

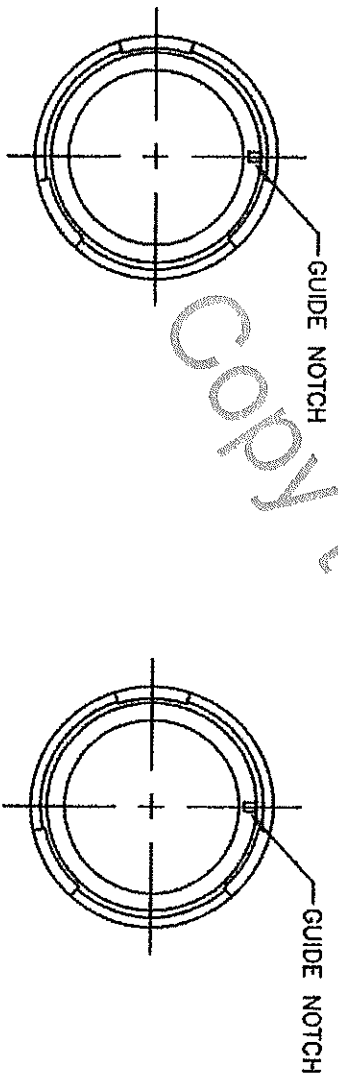


NOTE:
1. FOR WIRING CHARTS REF. SPECIFICATION NO. ARDE/SPECN/LAN-03
2. LASER MARKING OR ENGRAVING TO BE DONE ON THE BACK SHELL OF THE CONNECTOR AT THE ONE END, MIN HEIGHT OF LETTER - 2 MM (FUZE JB-DB LINK, S.O. NO., SR. NO. TO BE MARKED)
3. FOR QA & QC REFER SPECIFICATION NO. ARDE/PINAKA/SPECN/LAN-03

TAPAN SHARMA
रक्षा प्रणाली
लीट कोल
डी. सॉफ्ट
डी. कंट्रोल
डी. फिक्चर
फॉर कंट्रोलर
पुणे विभाग

15 JUN 2020

NSN-1340720484162



ENLARGED VIEW FROM 'X' ENLARGED VIEW FROM 'Y'

R. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN. : THENGDI	CHD. : H. S. Khandekar					
DATE : / /	DATE : / /					
APPROVED : <i>[Signature]</i>	FOR DIRECTOR					
DATE : / /						
SEALED :						
DATE : / /						
SCALE : 1 : 2	EST. MASS : 0.169 Kgs					
DESIGN AUTHORITY : ARDE						
Production, Pune-21						
DRAWING No. : 8603 01 01 01 04 07 000 13PA						
PART No. :	DS CAT No. :					
	AUSP :					

ROCKET LINK ASSEMBLY

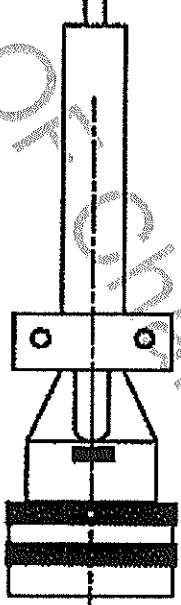
ASSEMBLY DRG. NO. 8603-01-01-00-04-000-00PA

RESTRICTED



Connector 1

Wire(750MM LENGTH)



Connector 2

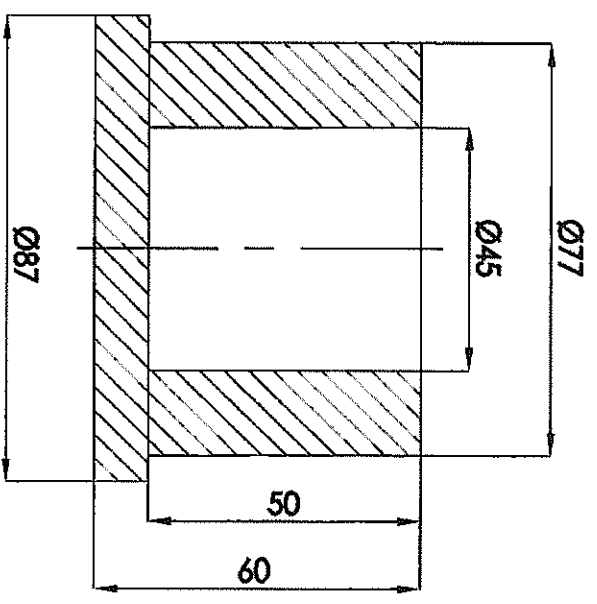
03.	CONNECTOR 2	6 PIN AMPHENOL	MG 06F 14S-6P GP.	01 NOS.
02.	WIRE	PTFE 6CORE	---	01 NOS.
01.	CONNECTOR 1	LEMO MALE 6 PIN CONNECTOR	FGG.08.306.CIAD5ZZ	01 NOS.
S.R. NO.	ITEM	DESCRIPTION	PART NO.	QTY.

PARTIAL --		PUSH		PULL	
DATE	ISSUED	DATE	ISSUED	TITLE	
02/02/2022	02/02/2022	02/02/2022	02/02/2022	SNAP-OFF CABLE	
DRAWN BY				CHECKED BY	
DESIGNED BY				APPROVED BY	
DATE				2022 02 003 INA	
PAGE				1	
INAVIT SYSTEMS				1	

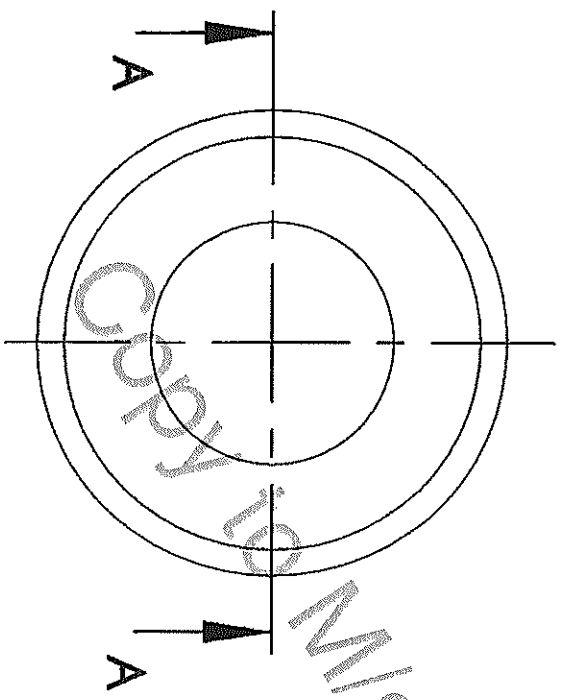
RESTRICTED

Copy to M/S MIL (through Or Change)

1	2	3	4	5	6	7	8
JSS				ON GRD			
V	D	0	0	1	0	0	0
GEN TOL : COARSE CLASS TO IS : 2102				DRG CONVENTIONS CONFORM TO INDIAN STD. DIM IN mm UNLESS OTHERWISE STATED			



SECTION A-A



- NOTE :
1. MATERIAL :
Cross Linked Polyethylene Foam, XLPE - Black to IND/ME/1022 (Prov) - 2008, Type II.
Density (Min) - 60 to 70 kg / m3. & % of compression (Min) - 0.6%.
 2. ADHESIVE : Dendrite , PC 65 to spec JSS 0405 - 2000, or Fevicol SR 998 FW or equivalent.
 3. The component may be manufactured using the foam material built up in layers to form the geometry.
 4. The layers shall be pasted using adhesive Dendrite PC 65 to JSS 0405 - 2000 or Fevicol SR 998 FW. Delamination of layers shall not be accepted.
 5. Overall Dimensions are for general guidance. Overall mating dimensions to suit inside dimensions of Bottom case shall be maintained for proper fitment.
 6. Overall dimensions shall be adjusted for ensuring proper fitment of foam with mating part.

R	NO	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN	NKN	CHD	BS GURAV	MATERIAL : AS PER NOTE		SIGN	
APPD	DATE	6/11/23	G.S. GUINAPURE FOR DIRECTOR	PROTECTIVE FINISH :			
SEALED	DATE			ASSY. DRG. No.	8603 02 04 00 00 000 00DC		
SCALE - NTS	EST MASS	TITLE	FOAM CAP FOR FUZE				
DESIGN	AUTHORITY	ARDE					

DRG NO	8	6	0	3	0	2	0	4	0	0	0	0	0	0	1	0	0	D	A
PART NO	DS CAT No										AHSP								

V00030000070203098

GEN TOL. COARSE CLASS TO IS:2102

DRAWING CONVENTIONS CONFORM TO INDIAN STD.
DIMN. IN mm UNLESS OTHERWISE STATED.

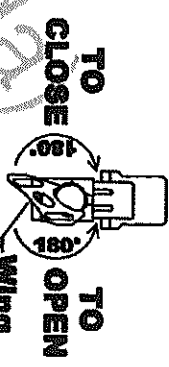
IN GIWAWRD

A

B

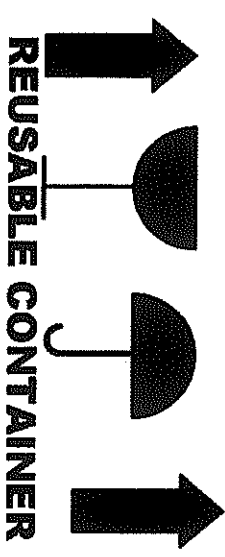
C

IMPORTANT



TO AVOID DAMAGING LATCH LOCKS & FOR LONG LIFE, ALIGN TOP LID WITH BOTTOM CASE & ENGAGE THE LATCHES

HANDLE WITH CARE



(MANUFACTURING AGENCY-----)

D

E

F

WHITE COLOUR

ENSURE ROPES ARE FOLDED TOWARDS INSIDE WHILE CLOSING

CAUTION

1

TO ENSURE LONG LIFE, ALWAYS ALL LATCHES MUST BE IN LOCKED CONDITION WHILE THE CONTAINER IN RESTING POSITION WITH (OR) WITHOUT EQUIPMENT.

2

DO NOT TAMPER GASKET, WHICH AFFECTS QUALITY STD.

LABEL OF PACKAGING CASE	
MANUFACTURING FACTORY	MIL or EEL
PACKAGE BOX SL.NO.	abcd/ef/ghij
MANUFACTURING DATE (FUZE)	
EXPIRY DATE (FUZE)	
EXPLOSIVE HAZARDS/COMPATIBILITY	1.1B

170.0

130.0

1.	06/10/23	GH PINAKA	FOR OFCH READ MIL or EEL	C-3		
R. No.	DATE	AUTHORITY	BRIEF RECORD	ZONE	CD	GO
DRN. : NKN		CHD. B S GURBA	MATERIAL :			
APPROVED : 6/10/23		6 S GUNNAPURE FOR DIRECTOR	PROTECTIVE FINISH :			
SEALED :			ASSY. DRG. No. : 8603 02 04 00 00 000 00DC			
DATE : / /			TITLE :			
SCALE : 1 : 1		EST. MASS :				
DESIGN AUTHORITY : ARDE						
Peabon, Pune-21						

PRINTING DETAILS

86030204000000300DB

PART No. : DS CAT No. : AHSP :