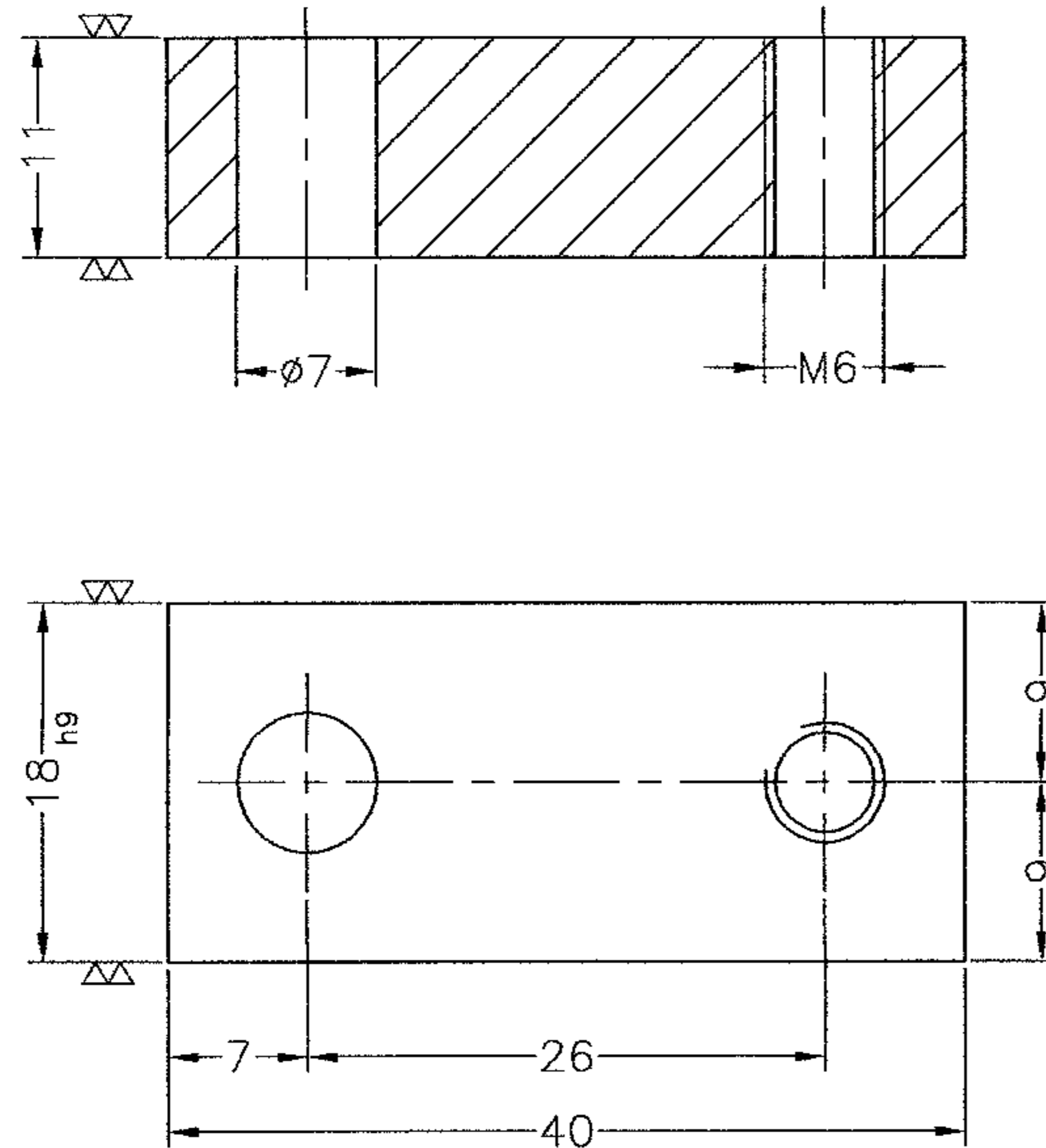
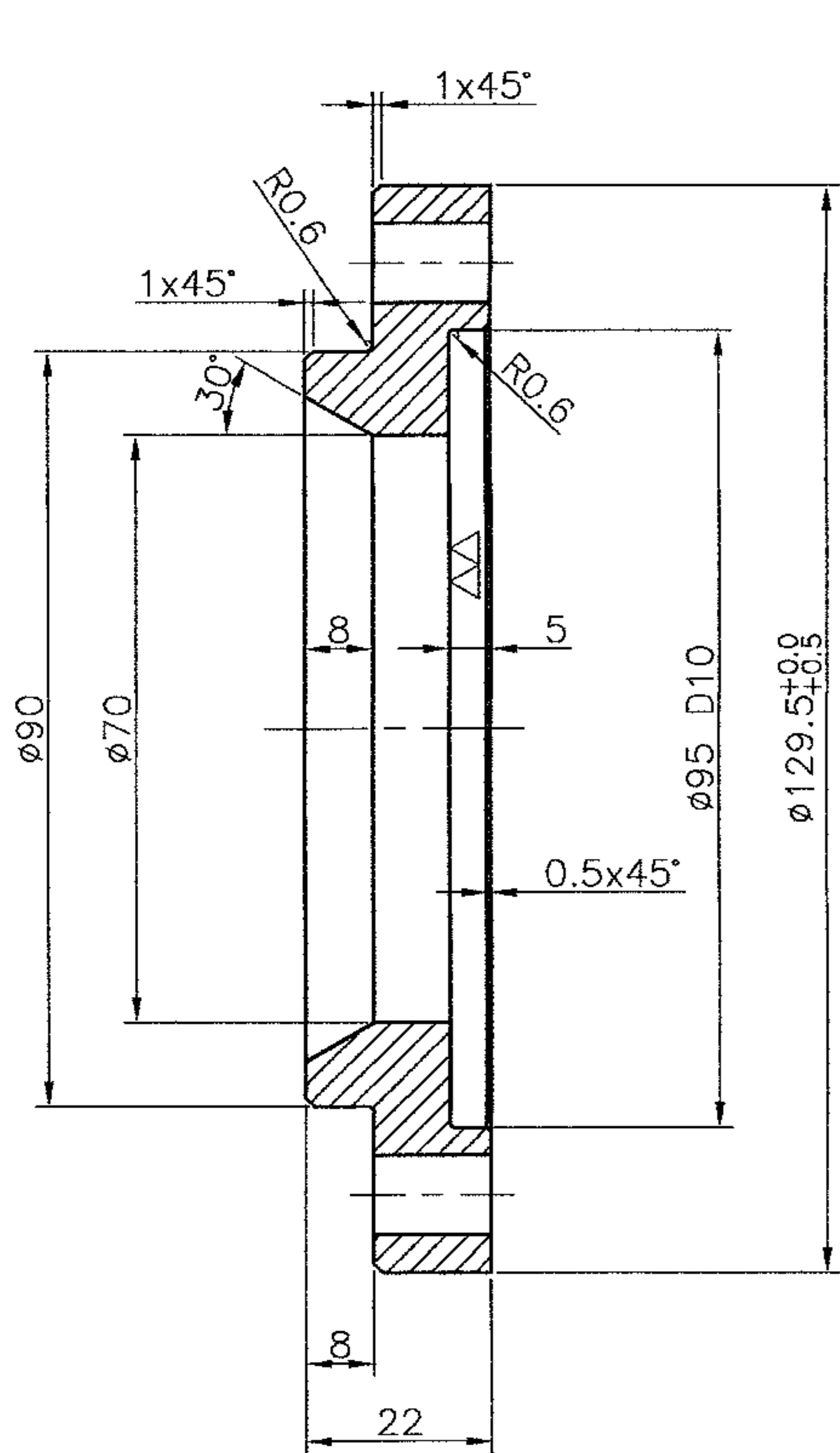


Item Number	Material	Item Title	Item Description	Item Quantity	Unit of Measure	Delivery Period (In number of days)
10	20515101000945	250MM MOULD PINOL PIP UN ASSY,PDR/278750	250MM MOULD PINOL PIPE UNIT ASSY FOR CASTER-3 PINOL PIPE ASSY AS PER PD/R-278750 CONSISTING OF 1) PINOL PIPE, SIZE:130X145X1597 AND HOLDING CLAMP AS PER PD/R-278742,QTY- 1 NO EACH. 2) LOCK NUT95MM DIA X 160MM LONG (2 HALVES) PD/R-278749, QTY-1 NO 3) RETAINING FLANGE- 37X10X100, PD/R-278738, QTY-2 NO 4) FLANGE- 129.5/70X22, PD/R-278701, QTY-1 NO 5) FITTING KER- 11X18X26, PD/R-278694 6) SOCKET HEAD BOLT- M16X16LG, QTY-1 NO 7) HEX HEAD BOLT- M80X30LG, QTY-8 NOS 8) SOCKET HEAD BOLT- M8X20LG, QTY-6 NOS MATERIAL AS PER DRAWING. TO BE SUPPLIED IN ASSEMBLED CONDITION. DRAWING NO : PD/R-278750	4	SET	150
20	20515101000946	MOULD NARROW FACE SPINDL.UNIT.PD/R278680	MOULD NARROW FACE SPINDLE UNIT ASSLY FOR CASTER-3 MATERIAL AS PER DRAWING. DRAWING NO : PD/R-278680	4	SET	150
30	20515101000947	MOULD GUID.PIP.UNT.ASSY(LHS),PD/R-278743	MOULD GUIDE PIPE UNIT ASSLY(LHS) FOR CASTER-3 AS PER DRAWING NO-PD/R-278743 CONSISTING OF 1) GUIDE PIPE UNIT-1, PD/R-278739, QTY- 1 NO 2) BUSH, DIA 150X130X250,PD/R-278699, QTY-1 NO 3) SPACER, DIA 149.5X136.4X100, PD/R-278698, QTY-1 NO 4) BUSH, DIA 150X130X100,PD/R-278700, QTY-1 NO 5) FLANGE, DIA 193X130X15, PD/R-278697, QTY-1 NO MATERIAL AS PER DRAWING. TO BE SUPPLIED IN ASSEMBLED CONDITION. DRAWING NO : PD/R-278743	2	SET	150
40	20515101000948	MOULD GUID.PIP.UNT.ASSY(RHS),PD/R-278744	MOULD GUIDE PIPE UNIT ASSLY(RHS) FOR CASTER-3 AS PER DRAWING NO-PD/R-278744, CONSISTING OF 1) GUIDE PIPE UNIT-1, PD/R-278737, QTY- 1 NO 2) BUSH, DIA 150X130X250,PD/R-278699, QTY-1 NO 3) SPACER, DIA 149.5X136.4X100, PD/R-278698, QTY-1 NO 4) BUSH, DIA 150X130X100,PD/R-278700, QTY-1 NO 5) FLANGE, DIA 193X130X15, PD/R-278697, QTY-1 NO MATERIAL AS PER DRAWING. TO BE SUPPLIED IN ASSEMBLED CONDITION. DRAWING NO : PD/R-278744	2	SET	150
50	20515101000949	CLAMPING PLATE,20X100X130,F/MOUL	FOR MOULD NARROW FACE LOCKING OF CASTER-3 AS PER DRAWING DRAWING NO : PD/R-278693	10	EA	150

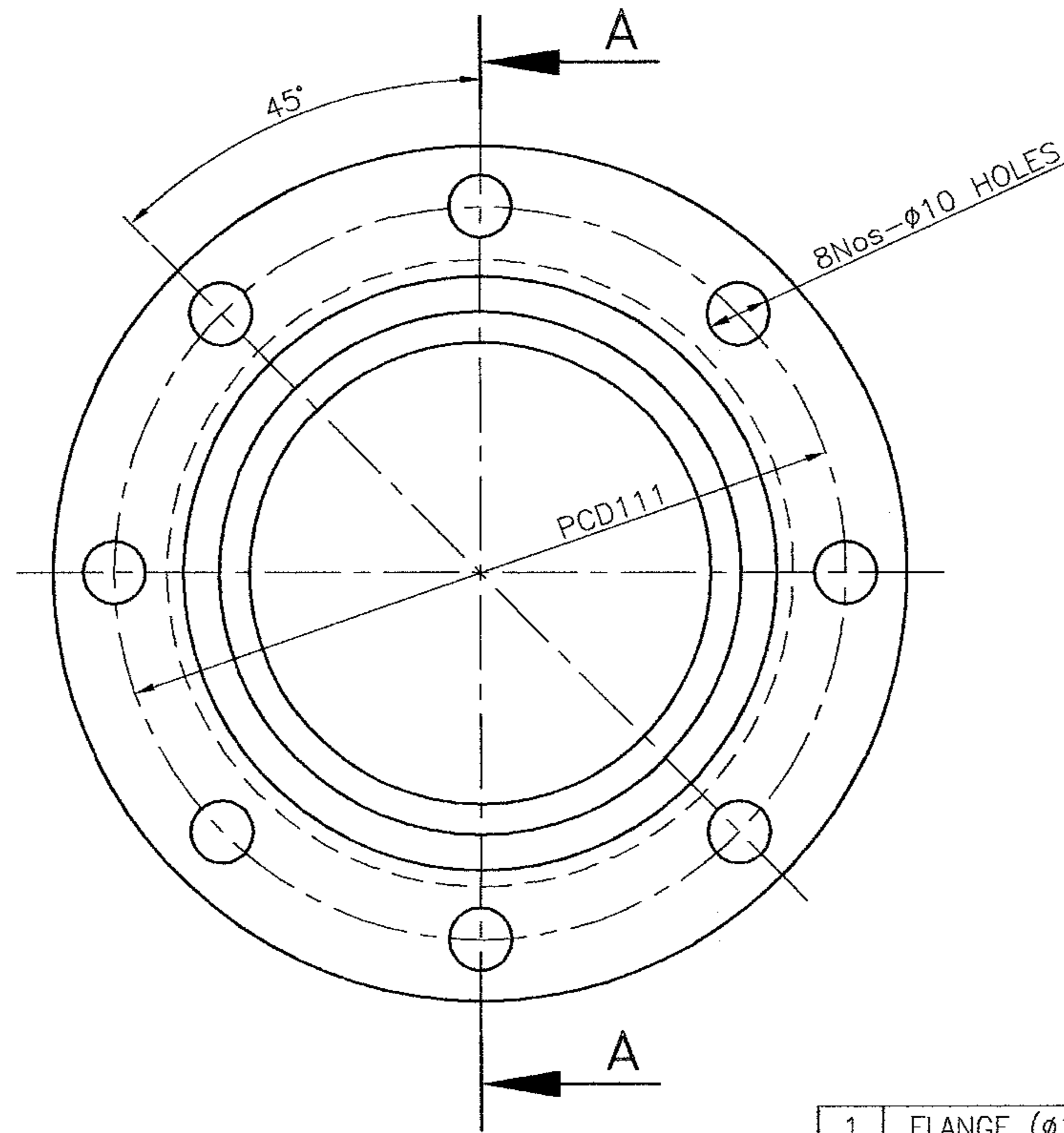



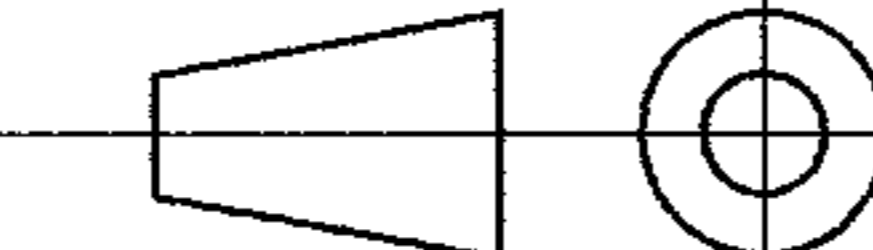
1	FITTING KEY		C45+C	1	0.06
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	TOTAL KG.
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED					
 <b>सेल SAIL</b>			<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अधिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>		
			R.No	ZONE	BRIEF RECORD
<b>REVISION</b> 			2024	DATE	NAME
			DGN.		
REF.DRG.			SCALE	APPROVED	SUPERSEDES
*SMS-II/CASTER-3/MOULD/FITTING KEY-15			1:2		Drawing Number
					PD/R-
					278694
					W.O.No-9000097213
					REVISION
					0

\*REPLICATED FROM REFERENCE



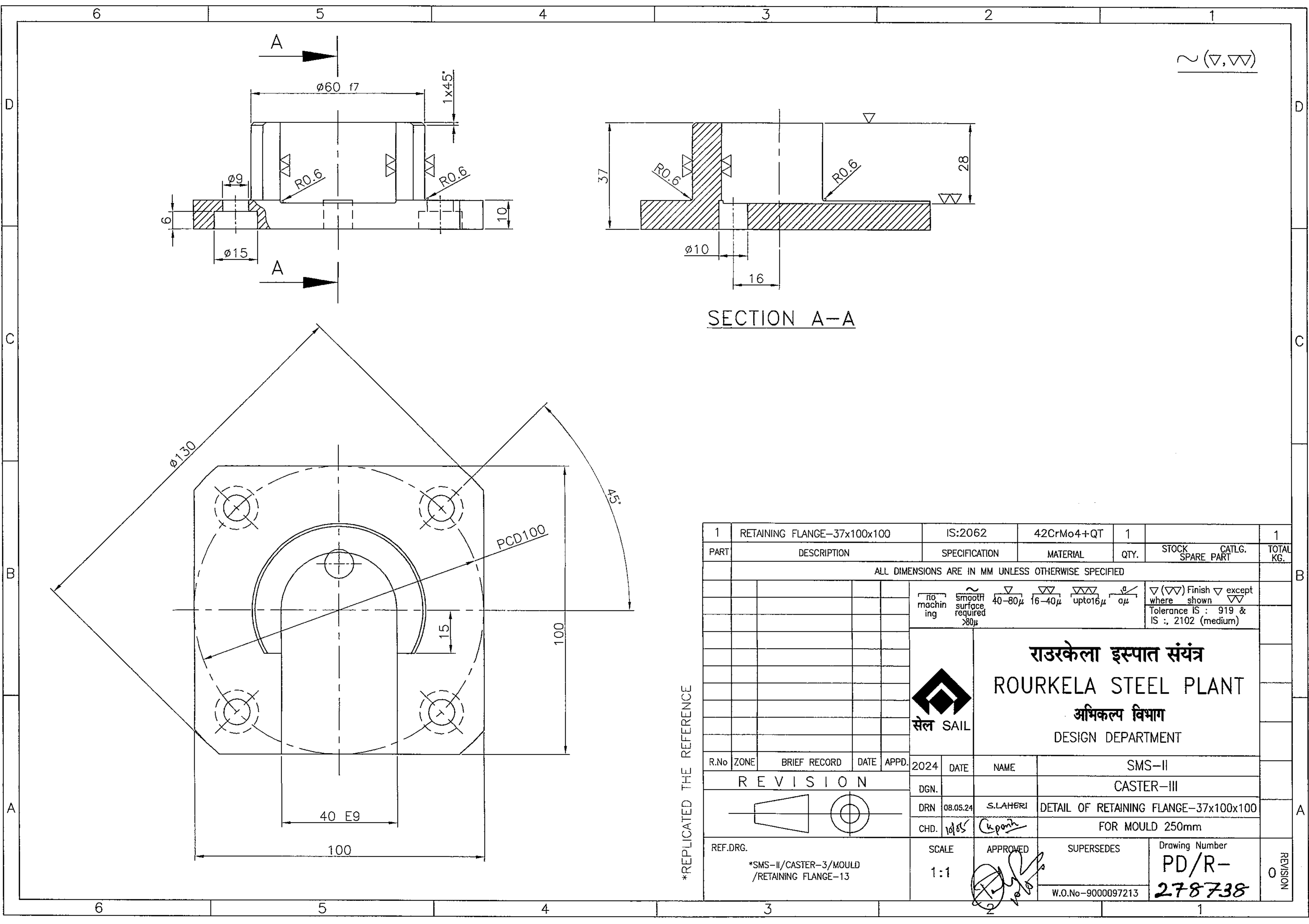
SECTION A-A




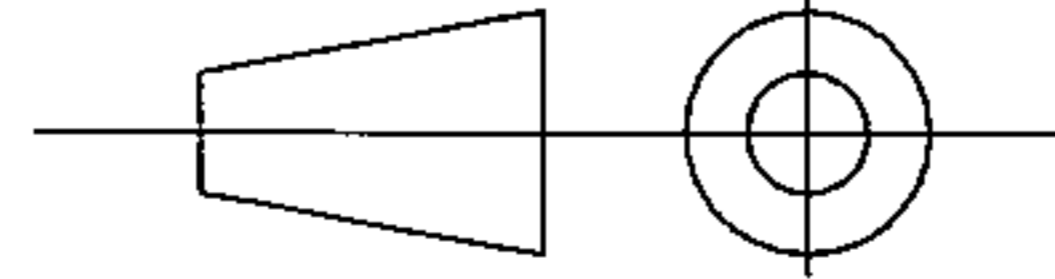
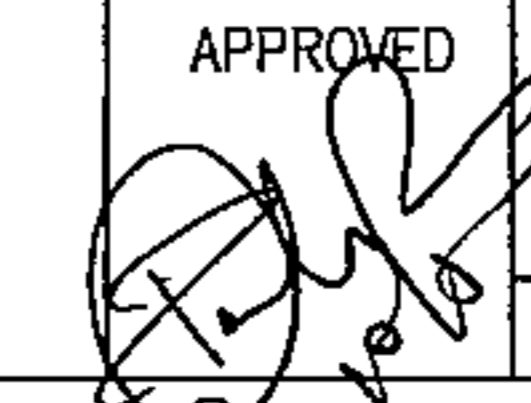
1	FLANGE (Ø129.5/70x22)	IS:2062	Fe410WB	1		0.96			
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. PART	TOTAL KG.		
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED									
					no machining smooth surface required $>80\mu$	$\nabla(\nabla\nabla)$ Finish $\nabla$ except where shown $\nabla\nabla$ Tolerance IS : 919 & IS : 2102 (medium)			
 <b>सेल SAIL</b>			<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>						
			R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE
<b>REVISION</b> 			DGN.						CASTER-III
			DRN	06.05.24	S.LAHERI	DETAIL OF FLANGE (Ø129.5/70x22)			
			CHD.	2/15		FOR MOULD 250mm			
REF.DRG.	*SMS-II/CASTER-3/MOULD/FLANGE-14		SCALE	1:1	APPROVED	SUPERSEDES	Drawing Number	PD/R-278701	
							W.O.No-900097213		

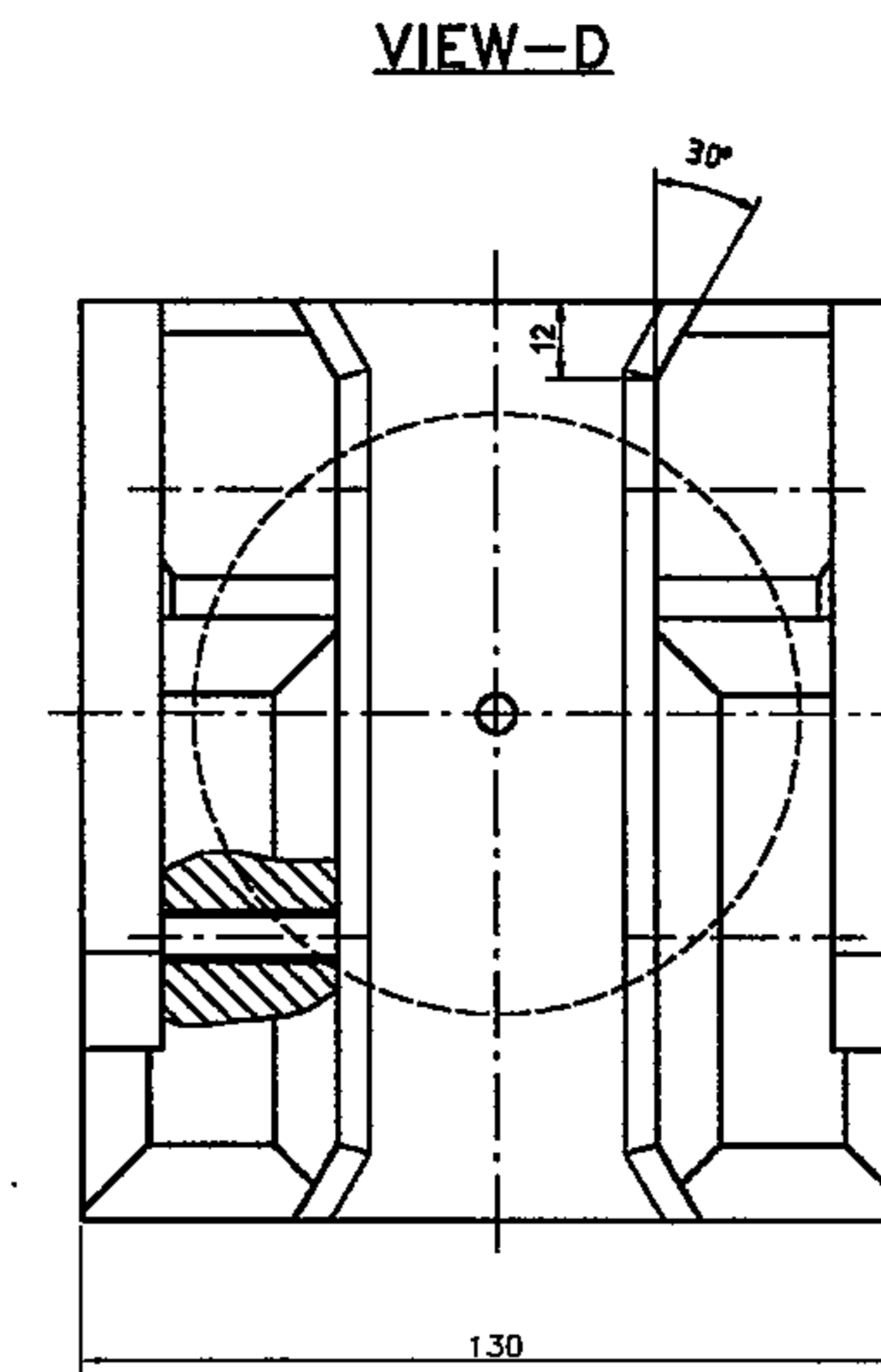
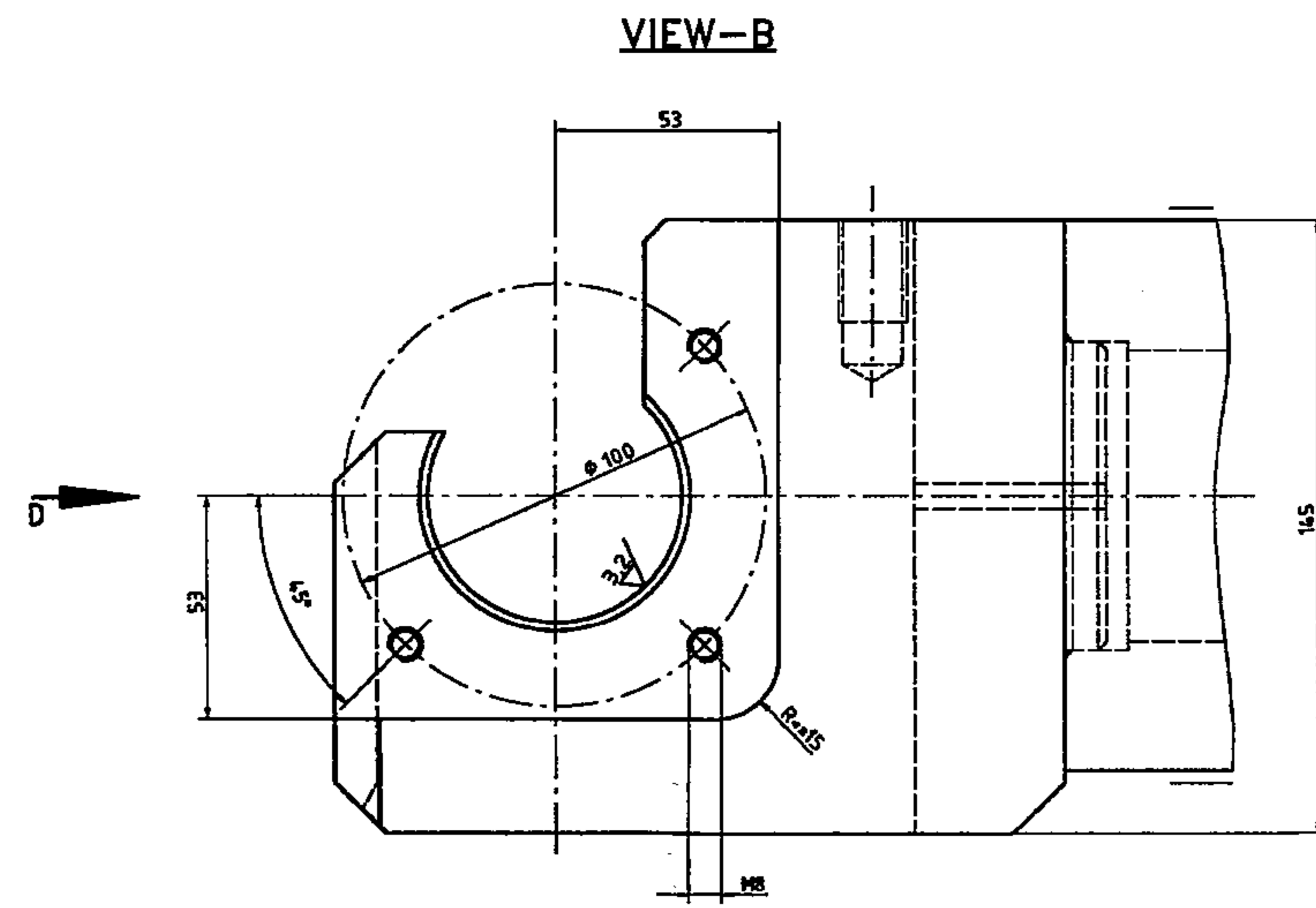
\*REPLICATED THE REFERENCE

REVISION  
0

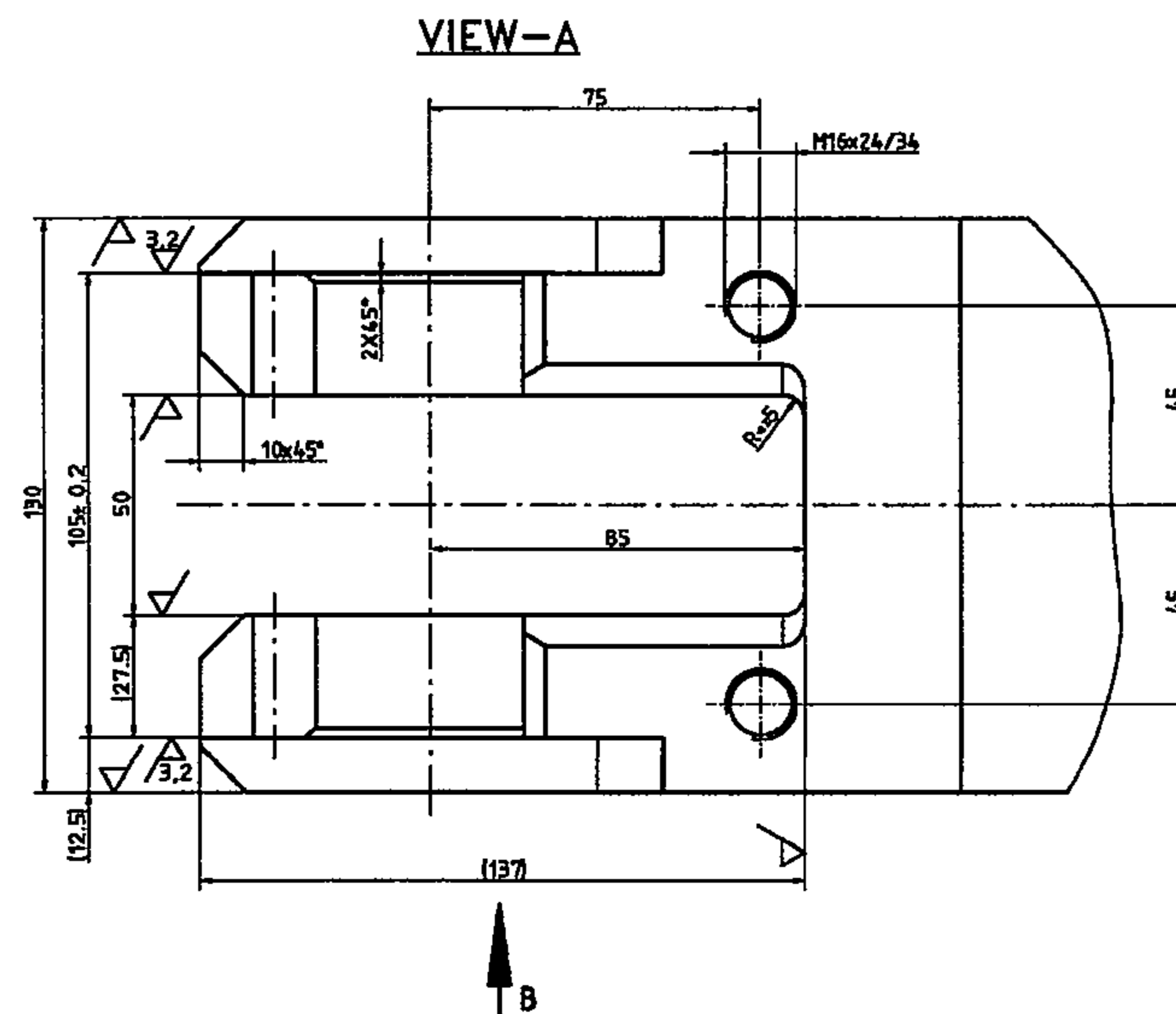
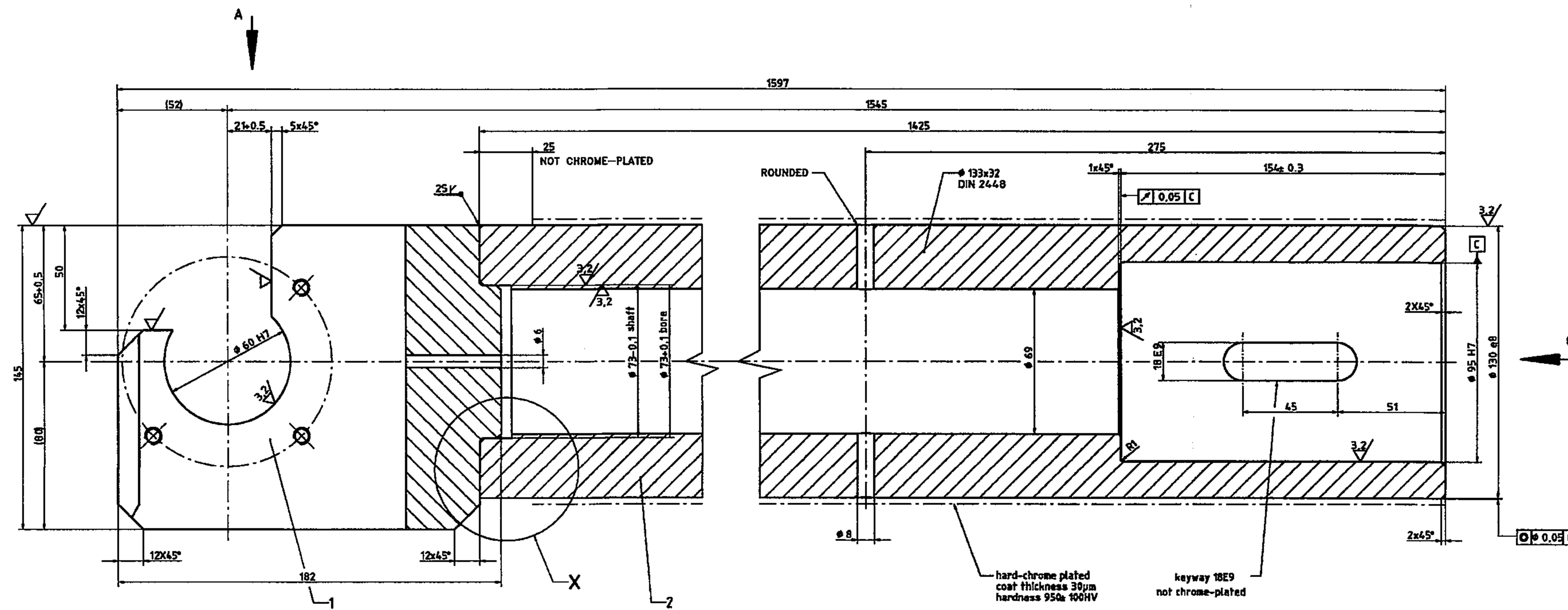
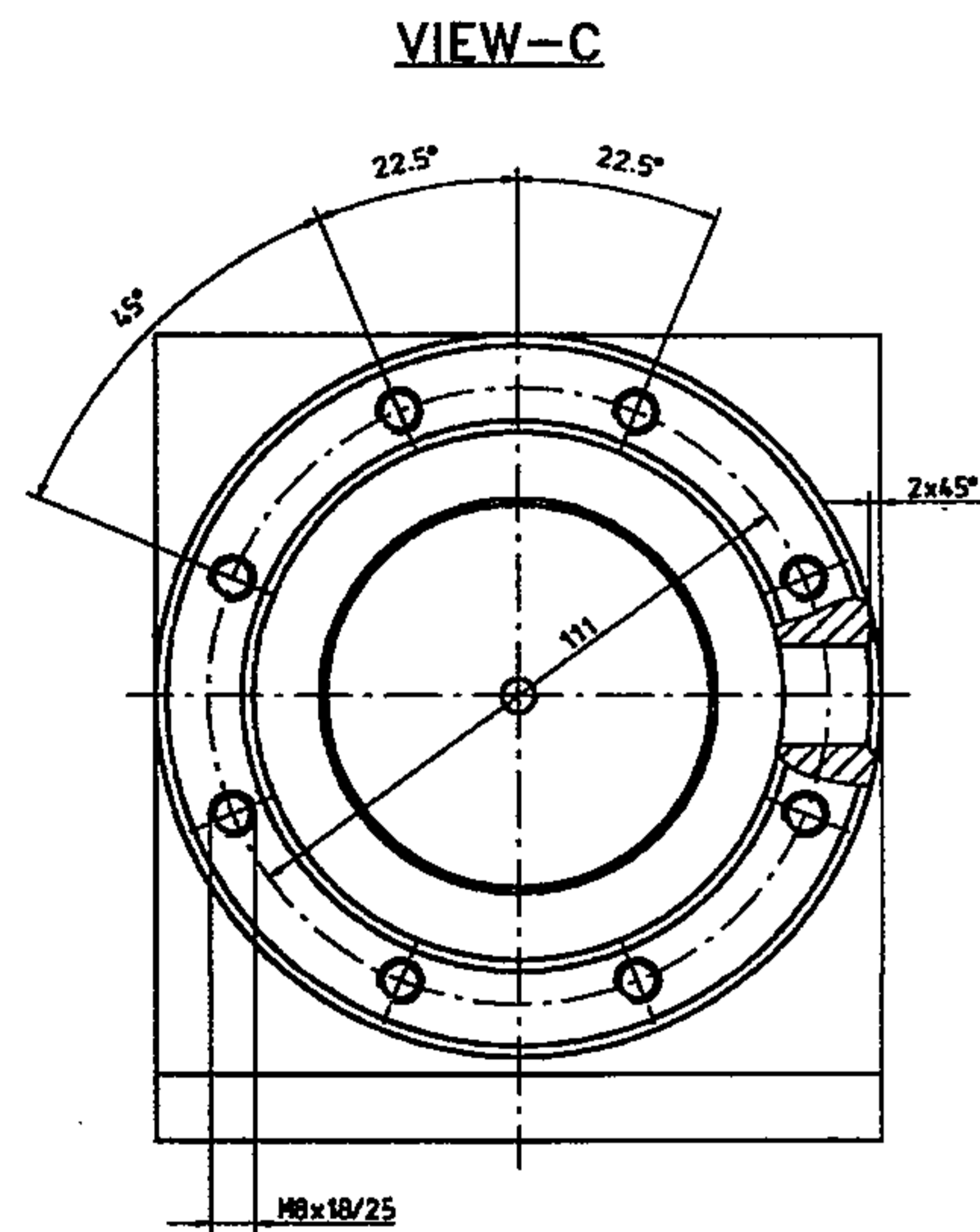
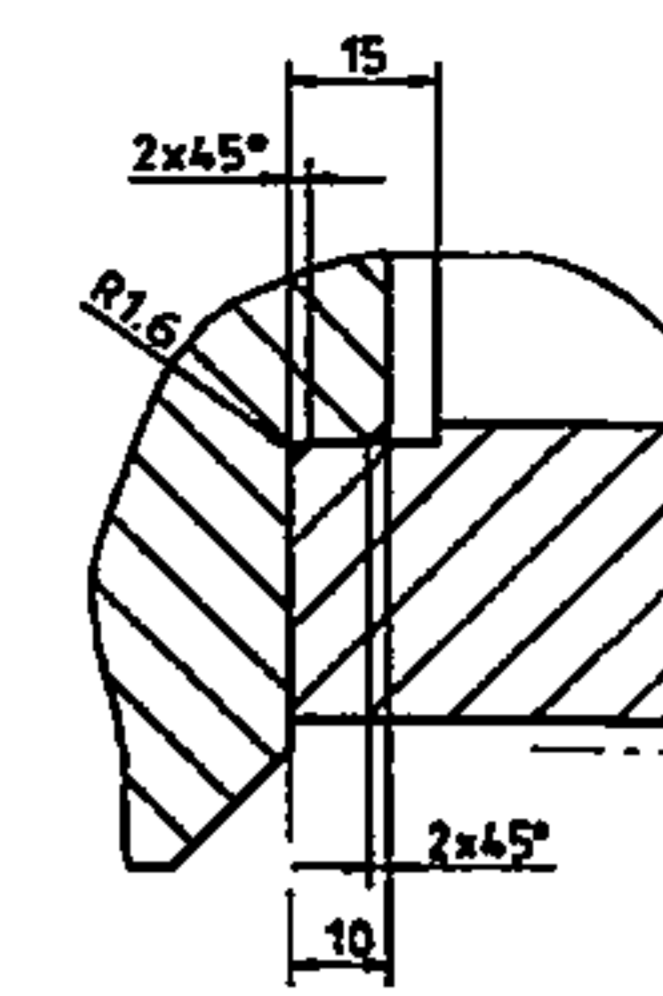


SECTION A-A

1	RETAINING FLANGE-37x100x100	IS:2062	42CrMo4+QT	1		1					
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. TOTAL KG.					
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED											
					no machining smooth surface required >80μ ∇ 40-80μ ∇∇ 16-40μ ∇∇∇ upto 16μ ∇∇∇∇ 0μ	∇(∇∇) Finish ∇ except where shown ∇∇ Tolerance IS : 919 & IS : 2102 (medium)					
*REPLICATED THE REFERENCE REF.DRG. *SMS-II/CASTER-3/MOULD /RETAINING FLANGE-13			 <b>सेल SAIL</b>				<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>				
			R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
			REVISION						DGN.		CASTER-III
						DRN	08.05.24	S.LAHERI	DETAIL OF RETAINING FLANGE-37x100x100		
						CHD.	10/05	C. Panth	FOR MOULD 250mm		
			SCALE	APPROVED	SUPERSEDES	Drawing Number			REVISION		
			1:1			PD/R-	278738				
					W.O.No-9000097213						



DETAIL-X

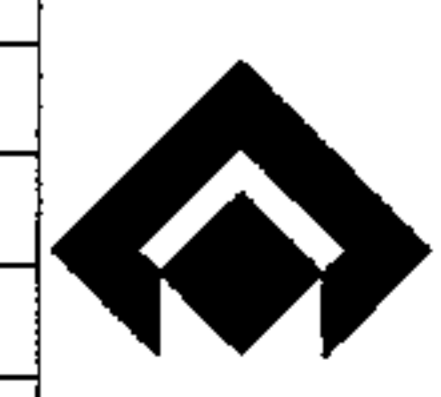


TOTAL WEIGHT~108.8Kg

PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG.	TOTAL KG.
2	PIN PIPE Ø145/130x1597		Fe410WB+N	1			
1	HOLDING CLAMP		Fe410WB+N	1			

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

no machining	smooth surface required >80µ	40-80µ	16-40µ	upto16µ	µ	▽ (▽▽) Finish where shown	▽ except where shown
Tolerance IS : 919 & IS : 2102 (medium)							



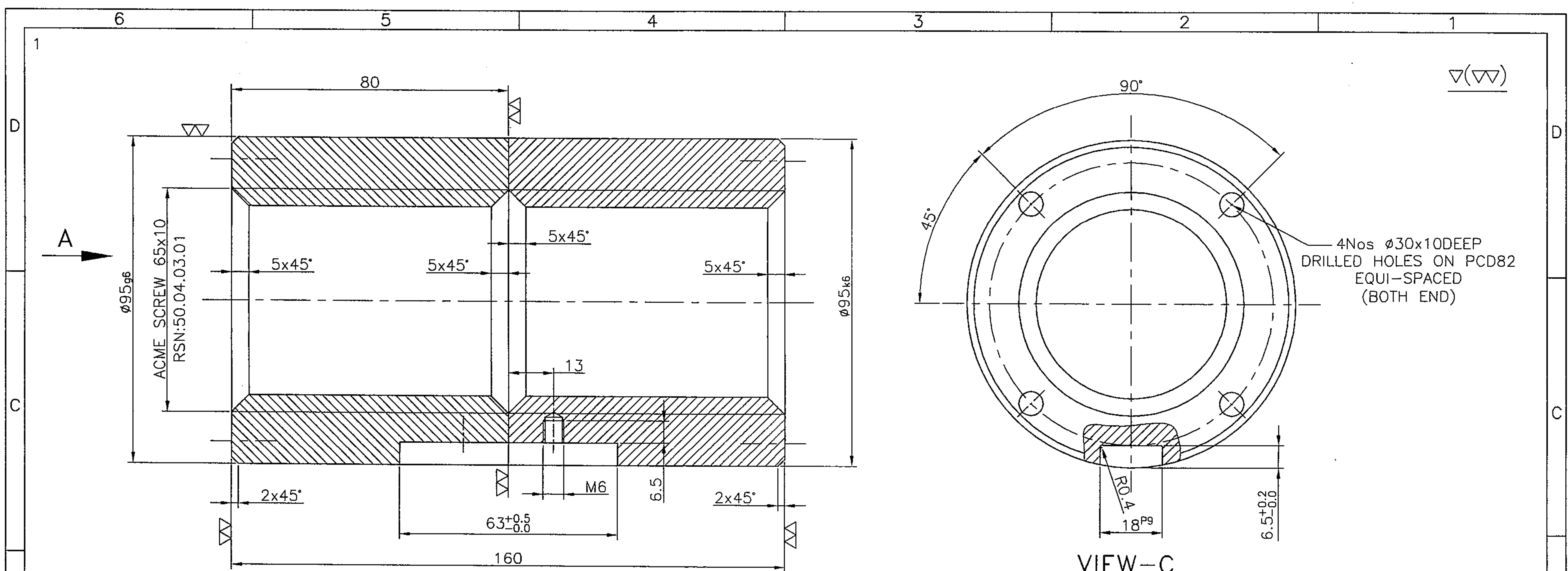
**राउरकेला इस्पात संयंत्र**  
**ROURKELA STEEL PLANT**  
 अधिकल्प विभाग  
 DESIGN DEPARTMENT

R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
REVISION								
DGN.								CASTER-III
DRN	13.05.24	S.LAHARI		DETAIL OF PIN PIPE 130x145x1597				
CHD.								FOR MOULD 250mm
REF.DRG.	SCALE		APPROVED	SUPERSEDES		Drawing Number		
*SMS-II/CASTER-3/MOUL/PIN PIPE-11	NTS				PD/R-			
						W.O.NO- 9000097213	278742	

REVISION 0

12.5 / (3.2)



\*REPLICATED THE REFERENCE



**NOTES:**

1. LOCK NUT BOTH HALVES TO BE MOUNTED CLEARANCE FREE ON SPINDLE.
2. GROOVE 18P9 TO BE CUT IN ASSEMBLED CONDITION (WITH SPINDLE).
3. AXIAL CLEARANCE 0.05mm TO BE SET BY TURNING-OFF A CONTACT FACE.
4. LOCK NUT TO BE MACHINED TOGETHER WITH SPINDLE.

\*REPLICATED THE REFERENCE

1	LOCK NUT-Ø95x160Lg (2 HALVES)		CuSn12Ni2-C-GZ	1		
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	TOTAL KG.
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED						
		no machining	smooth surface required >80µ	▽ 40-80µ	▽▽ 16-40µ	▽▽▽ upto16µ
				▽ (▽▽) Finish	▽ except where shown	▽▽ Tolerance IS : 919 & IS : 2102 (medium)
			<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>			
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE
REVISION						
				DGN.	SMS-II	
				DRN	CASTER-III	
				CHD.	DETAIL OF SUPPORT PIN PIPE UNIT LOCK NUT	
				Ø95/Tr65x10x160Lg FOR MOULD 250mm		
REF.DRG.			SCALE	APPROVED	SUPERSEDES	Drawing Number
*SMS-II/CASTER-3/MOULD/NUT-2PARTS-12			1:1			PD/R-
				W.O.No-9000097213		278749
						REVISION
						0

8 7 6 5 4 3 2 1

F F

E E

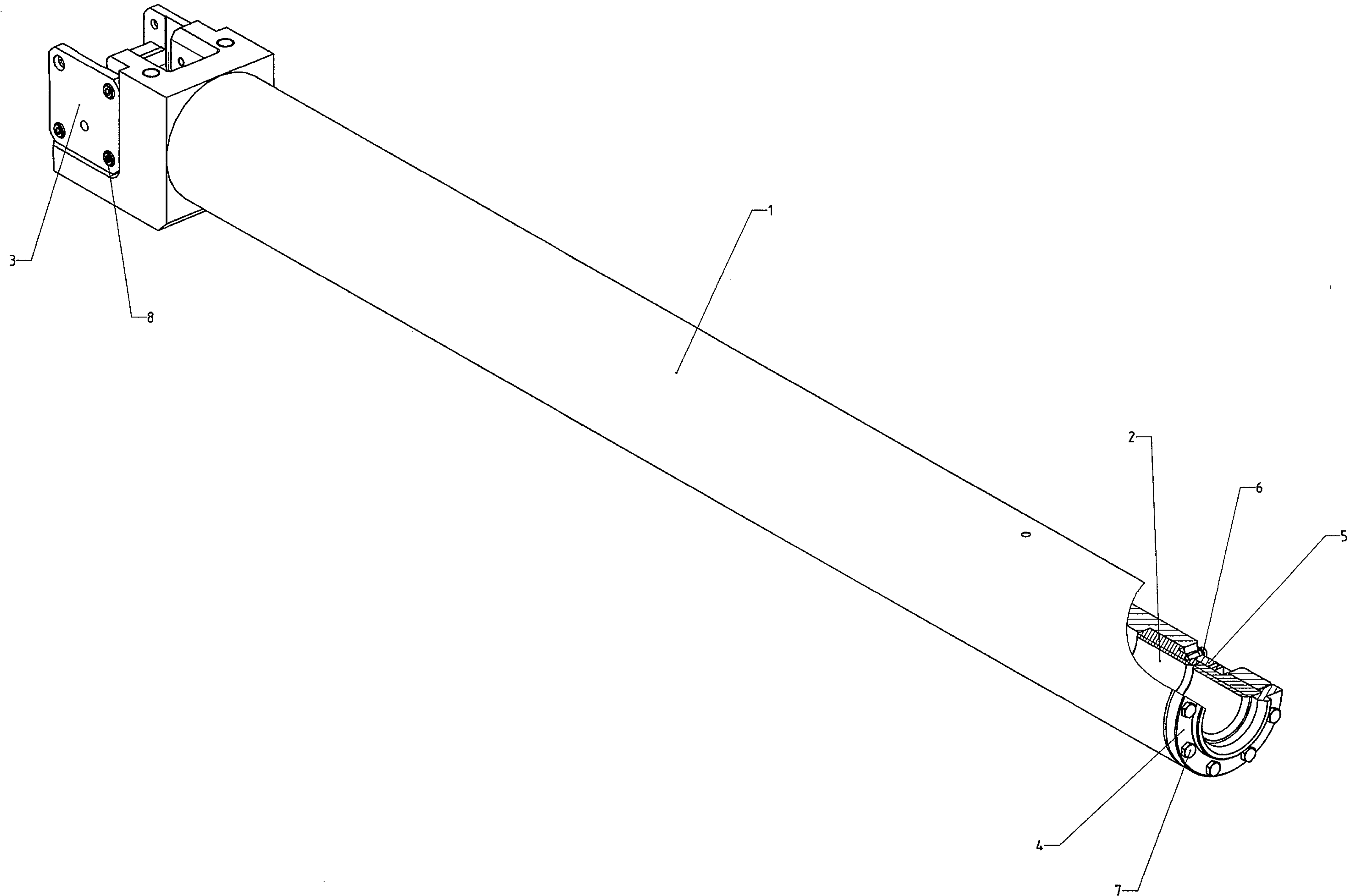
D D

C C

B B

A A

8 7 6 5 4 3 2 1




TOTAL WEIGHT~118.3Kg.

PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE	CATLG. PART	TOTAL KG.
8	SOCKET HDD BOLT-M8x20Lg			8.8	6		0.078
7	HEX HDD BOLT-M8x30Lg			8.8	8		0.128
6	SOCKET HDD BOLT-M16x16Lg			8.8	1		0.005
5	FITTING KEY-11x18x26	PD/R-278694	C45+C	1			0.06
4	FLANGE (ø129.5/70x22)	PD/R-278701	Fe410WB+N	1			0.96
3	RETAINING FLANGE-37x100x100	PD/R-278738	42CrMo4+QT	2			2
2	LOCK NUT-ø95x160Lg (2 HALVES)	PD/R-278749	CuSn12Ni2-C-GZ	1			6.3
1	GUIDE PIPE UNIT-1	PD/R-278739	Fe410WB+N	1			108.8

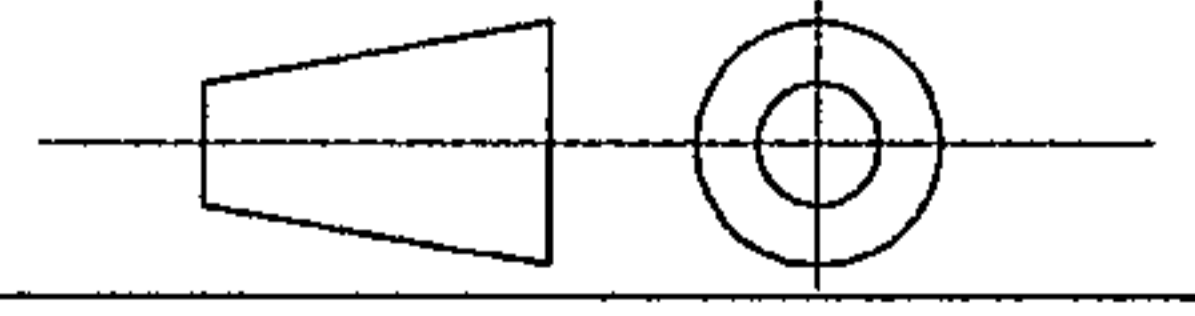
\*REPLICATED THE REFERENCE

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

no machining	smooth surfaces required	40-80µ	16-40µ	upto16µ	aµ	▽(▽▽) Finish where shown	▽ except where shown
Tolerance IS : 919 & IS : 2102 (medium)							

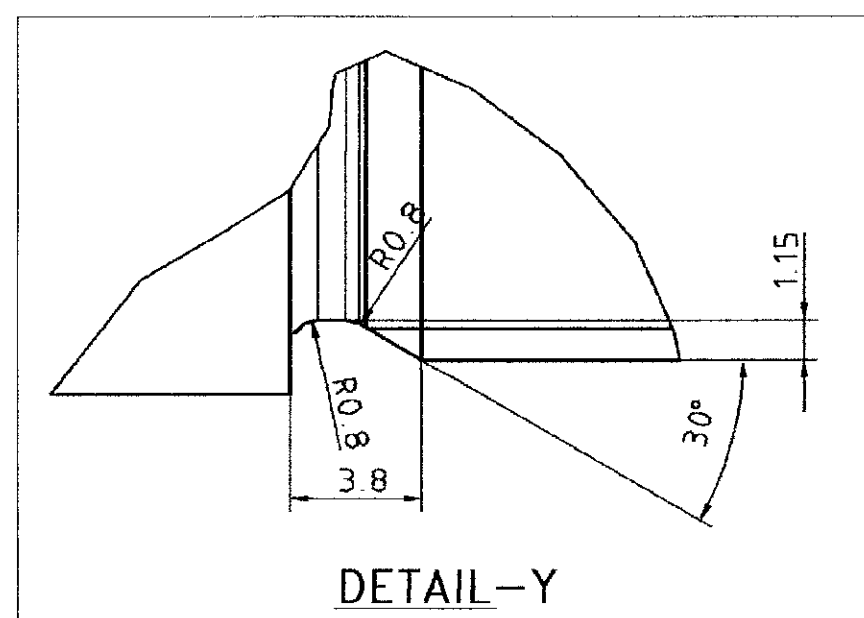
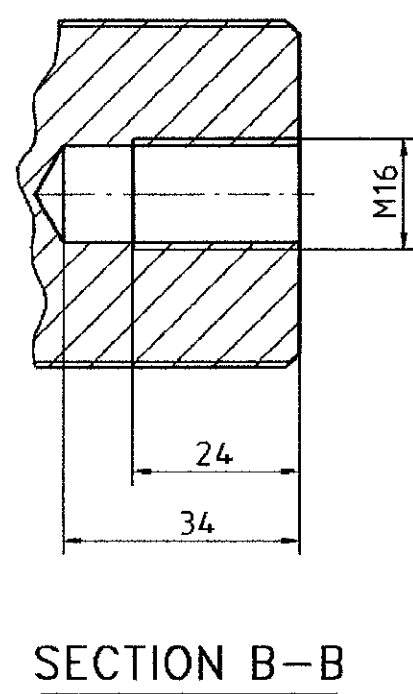
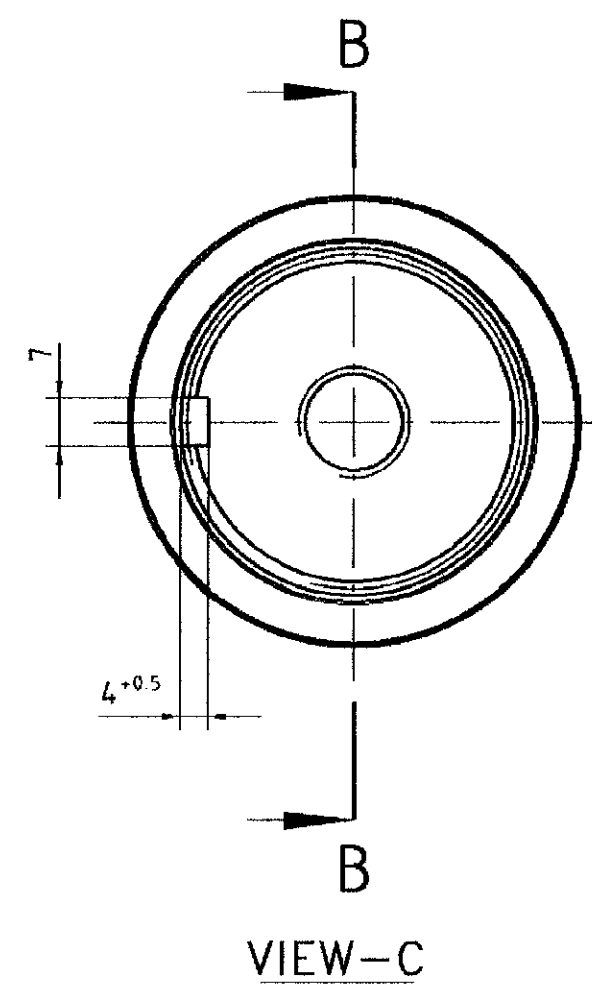
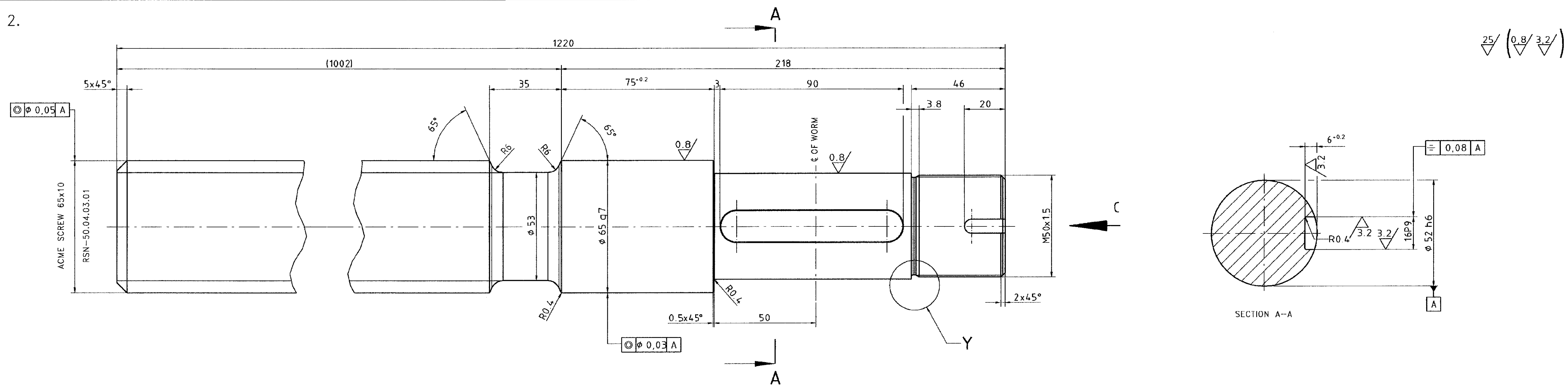


**राउरकेला इस्पात संयंत्र**  
**ROURKELA STEEL PLANT**  
**अभिकल्प विभाग**  
**DESIGN DEPARTMENT**

R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
REVISION								CASTER-3
								PIN PIPE UNIT ASSEMBLY FOR MOULD 250mm
REF.DRG.					SCALE	APPROVED	SUPERSEDES	Drawing Number
*SMS-II/CASTER-3/MOULD/PIN PIPE UNIT-10					NTS	<i>C. P. Singh</i> 16/08		PD/R-
							W.O.NO-9000097213	278750

REVISION

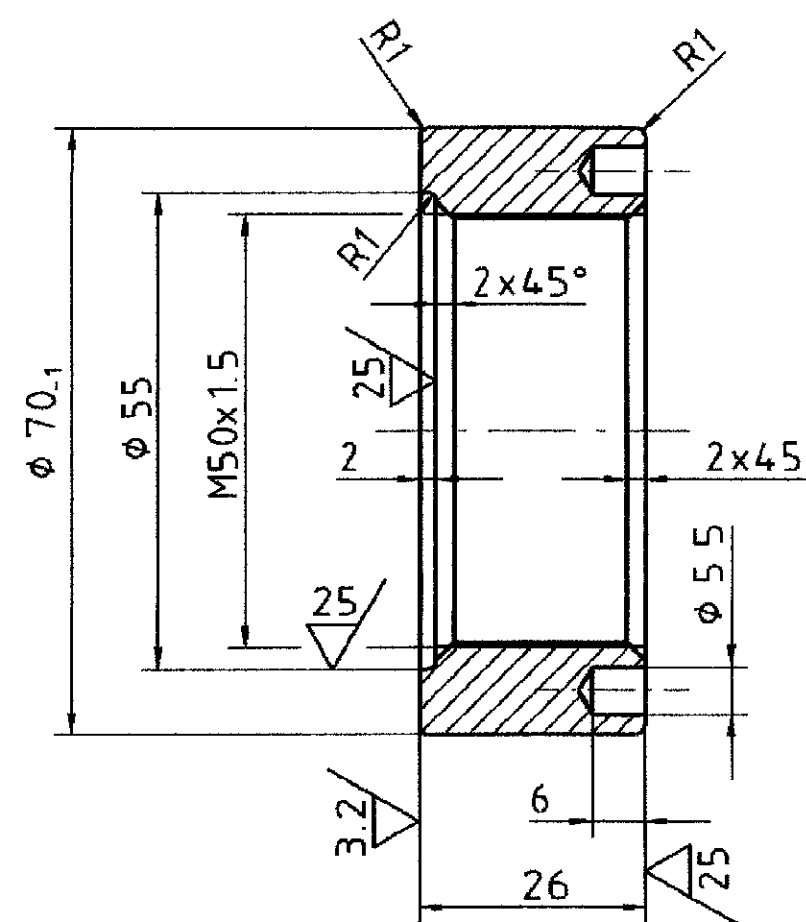
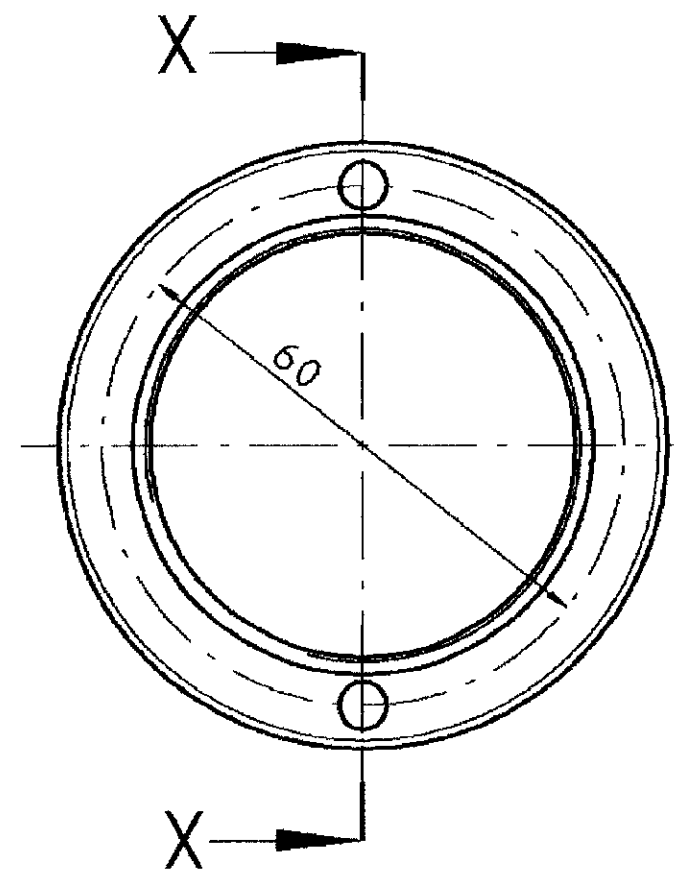
2.



NOTE:-

\* MACHINING OF PART TO BE DONE POST ASSEMBLY OF SPINDLE AND NUT

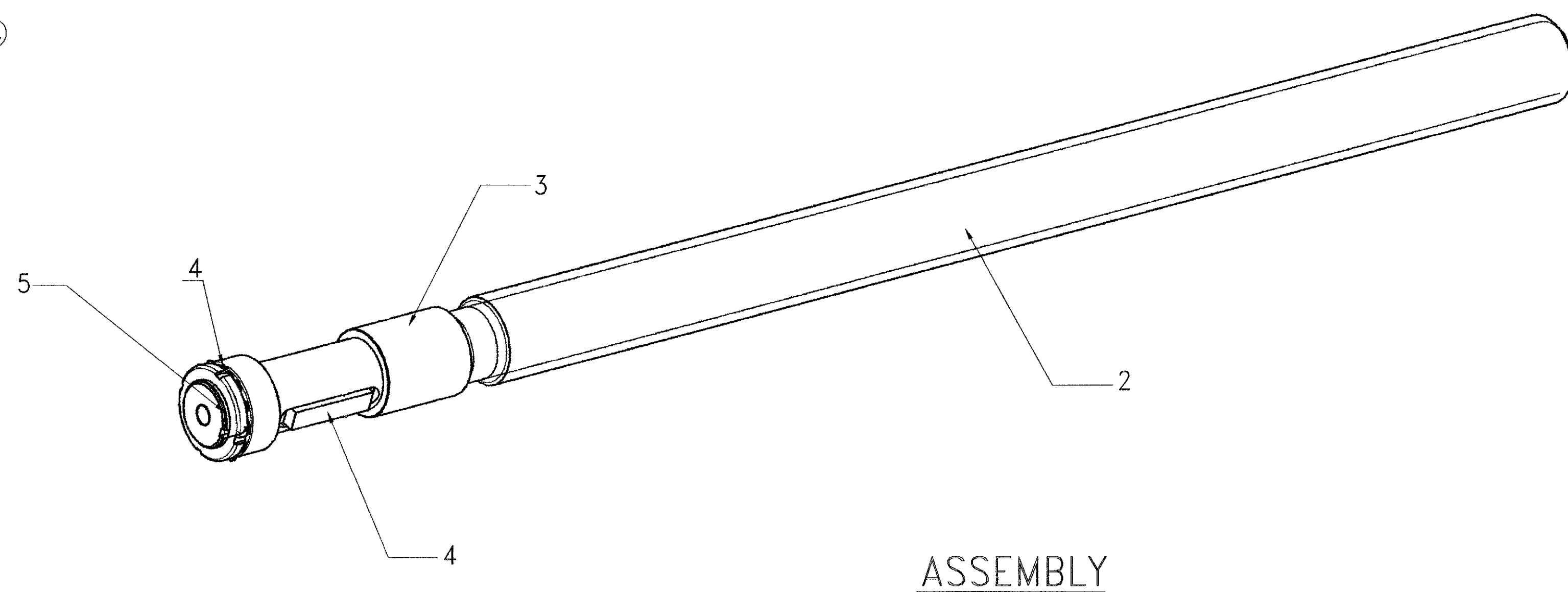
3.



SECTION X-X

25/(3.2)

①



ASSEMBLY

TOTAL WEIGHT ~ 30.6 KG

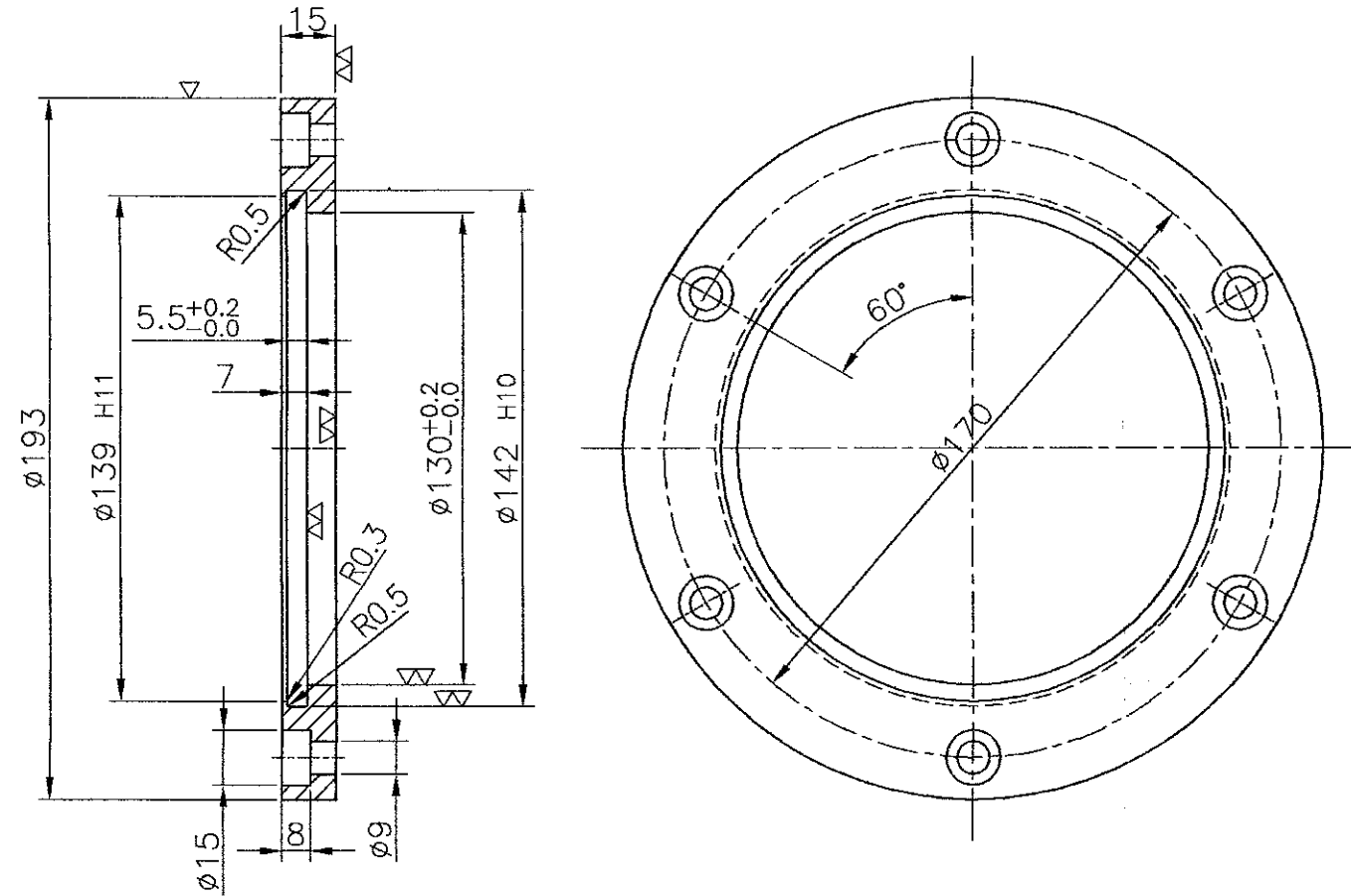
ITEM	DESCRIPTION	SPECIFICATION	MATERIAL	Qty.	Wt.(KG)
6	LOCK NUT-KM 10	DIN 981		1	0.15
5	RETAINER PLATE-MB 10	DIN 5406		1	0.02
4	FITTING KEY-B16x10x70	DIN 6885-1	IS:1570/C45+C	1	0.09
3	SHAFT NUT-φ70/M50x26..Thk	φ70/M50x1.5P	IS:1570/35C8+N	1	0.39
2	ACME THREADED SPINDLE..1220..Lg	DIN-103	IS:1570/45C8+N	1	29.97
①	SPINDLE UNIT ASSEMBLY			1	30.61


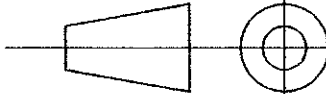

BILL OF MATERIAL

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

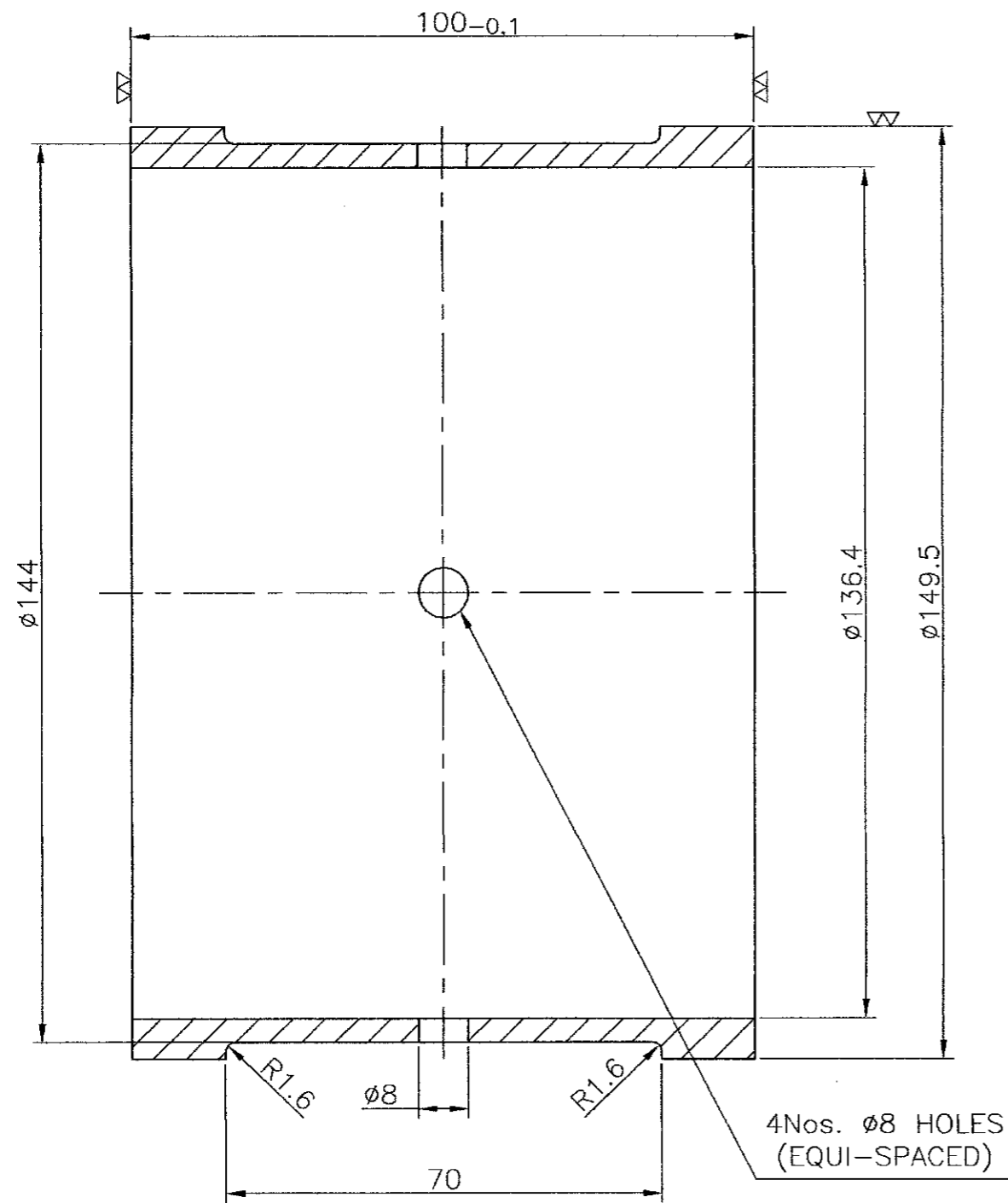
no machining	smooth surface required	√ 10-80μ	√ 16-40μ	√ 3.2-16μ	√ 0.8-1.6μ	√ 0.4-0.8μ	√ 0.2-0.4μ	√ 0.1-0.2μ	√ 0.05-0.1μ	Finish except where shown	Tolerance IS : 919 & IS : 2102 (medium)				
<p style="text-align: center;"><b>राउरकेला इस्पात संयंत्र</b>  <b>ROURKELA STEEL PLANT</b>  <b>अभिकल्प विभाग</b>  <b>DESIGN DEPARTMENT</b></p>															
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II							
<p><b>REVISION</b></p>								<p>CASTER-3</p>							
DGN.	DRN	CHD.	05.04	<p>MOULD-LEFT SIDE SUPPORT SPINDLE          UNIT ASSEMBLY &amp; SPARES DETAILS</p>				<p>Drawing Number  <b>PD/R-</b>  <b>278680</b></p>							
<p>REF.DRG.          • SMS-II/CCM-II/MOULD/SPINDLE UNIT          • SMS-II/CCM-II/MOULD/SPINDLE          • SMS-II/CCM-II/MOULD/SHAFT NUT</p>								<p>SCALE          N.T.S</p>		<p>APPROVED  </p>		<p>SUPERSEDES</p>		<p>EW:9000097213</p>	





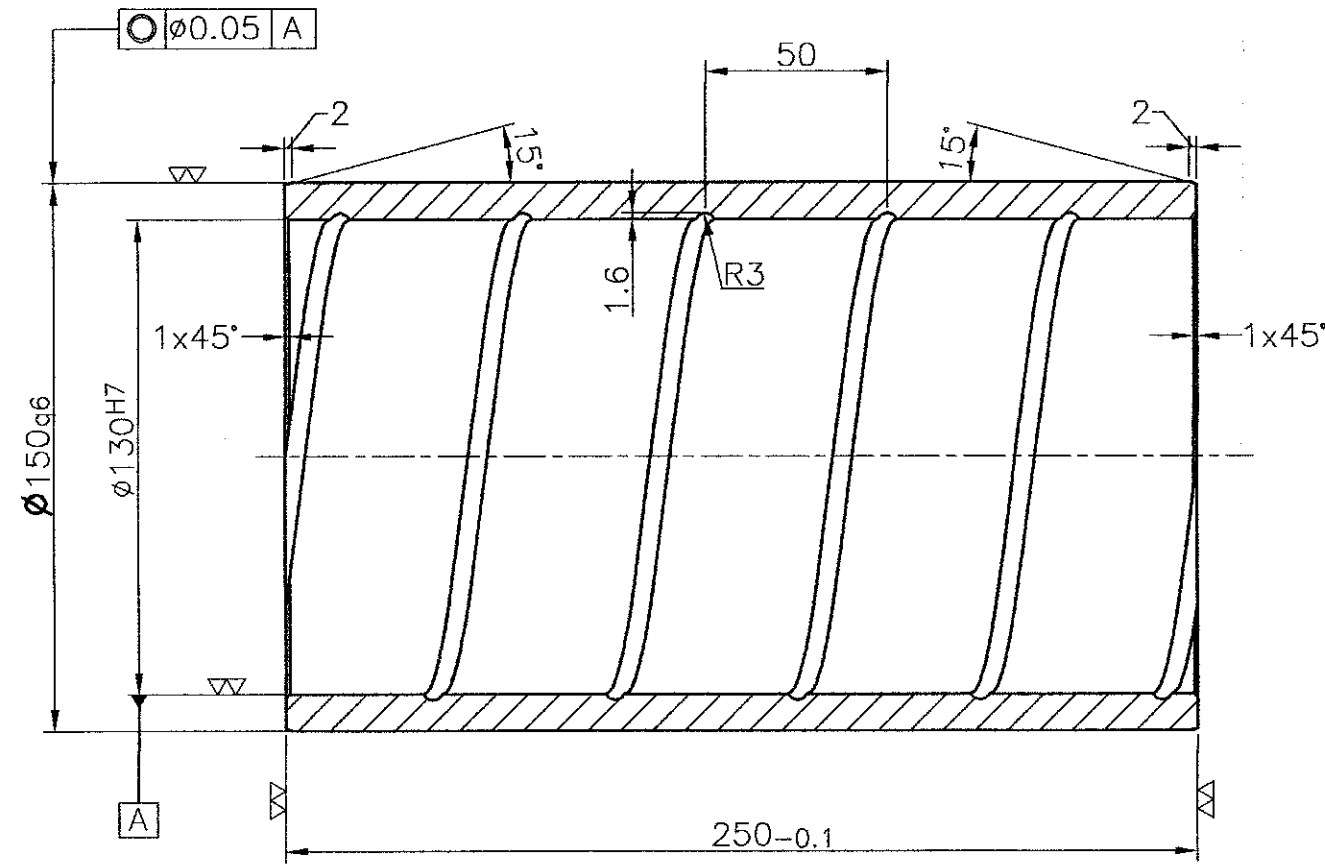
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG.	TOTAL KG.
1	FLANGE $\phi 193/130 \times 15$		Fe410WB	1			1.7
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED							
<div style="display: flex; justify-content: space-around; align-items: flex-end;"> <div style="text-align: center;"> <p>no machining smooth surface required &gt;80μ</p> </div> <div style="text-align: center;"> <p>▽ 40-80μ</p> </div> <div style="text-align: center;"> <p>▽ 16-40μ</p> </div> <div style="text-align: center;"> <p>▽ upto 16μ</p> </div> <div style="text-align: center;"> <p>▽ aμ</p> </div> <div style="text-align: center;"> <p>▽ (▽▽) Finish except where shown Tolerance IS : 919 &amp; IS : 2102 (medium)</p> </div> </div>							
 <b>सेल SAIL</b>				<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>			
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME
<b>REVISION</b>				DGN.			
				DRN	06.05.24	S.LAHERI	SMS-II
				CHD.	3/05	C. Panth	CASTER-III
						DETAIL OF FLANGE- $\phi 193/130 \times 15$	
REF.DRG. *SMS-II/CASTER-3/MOULD/FLANGE-18				SCALE	APPROVED	SUPERSEDES	Drawing Number
				1:2			PD/R- 278697
						W.O.No-9000097213	REVISION 0


\*REPLICATED THE REFERENCE



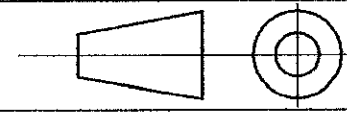
1	SPACER- $\phi$ 149.5/136.4x100	St37.0	1	2				
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG.	TOTAL KG.	
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED								
						$\nabla$ ( $\nabla$ ) Finish $\nabla$ except where shown $\nabla$ Tolerance IS : 919 & IS : 2102 (medium)		
			no machining	smooth surface required >80 $\mu$	40-80 $\mu$	16-40 $\mu$	upto16 $\mu$	0 $\mu$
<b>सेल SAIL</b> <b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>		R.No	ZONE	BRIEF RECORD	DATE	APPD.		
		REVISION						
		2024	DATE	NAME	SMS-II			
		DGN.			CASTER-III			
	DRN	05.06.24	S.LAHARI	DETAIL OF SPACER- $\phi$ 149.5/136.4x100				
	CHD.	3/10/24		FOR MOULD 250mm.				
REF.DRG.	SCALE		APPROVED	SUPERSEDES	Drawing Number			
*SMS-II/CASTER-3/MOULD/SPACER TUBE-19	1:1				PD/R-			
				W.O.No-9000097213	278698			
							REVISION	
							0	

\*REPLICATED THE REFERENCE



1	BUSH ( $\phi 150 \times 130 \times 250$ )		CuSn7Zn4Pb	1		10
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. TOTAL KG.
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED						
			no machining	smooth surface required $> 80\mu$	$\nabla$ 40-80 $\mu$	$\nabla\nabla$ 16-40 $\mu$
					$\nabla\nabla\nabla$ upto 16 $\mu$	$\nabla\nabla\nabla$ a $\mu$
					$\nabla(\nabla\nabla)$ Finish $\nabla$ except where shown $\nabla\nabla$	Tolerance IS : 919 & IS : 2102 (medium)
			 <b>सेल SAIL</b> <b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>			
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE
				NAME		
				SMS-II		
				CASTER-III		
				DETAIL OF BUSH ( $\phi 150 \times 130 \times 250$ )		
				FOR MOULD 250mm.		
				DGN.		
				DRN 06.05.24 S.LAHERI		
				CHD. 2/15 (K. P. Singh)		
				SCALE		
				1:2		
				APPROVED		
				SUPERSEDES		
				Drawing Number		
				PD/R-		
				278699		
				W.O.No-9000097213		
				REVISION		
				0		

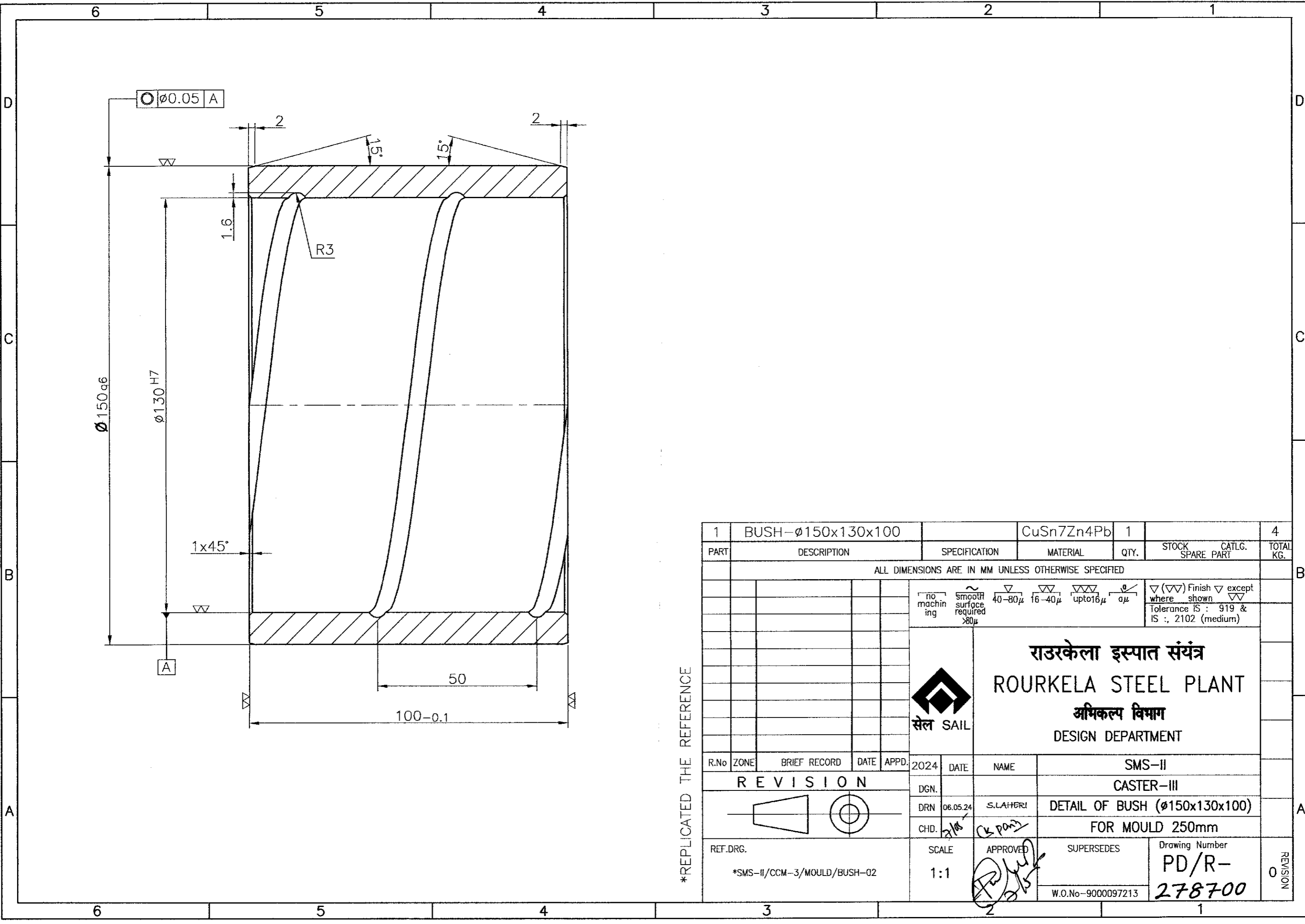
\*REPLICATED THE REFERENCE




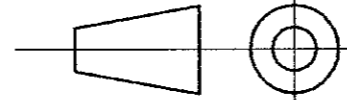
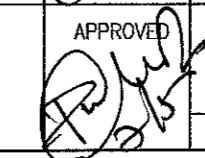
REF.DRG. \*SMS-II/CASTER-3/MOULD/BUSH-01

APPROVED  
  
 2/15

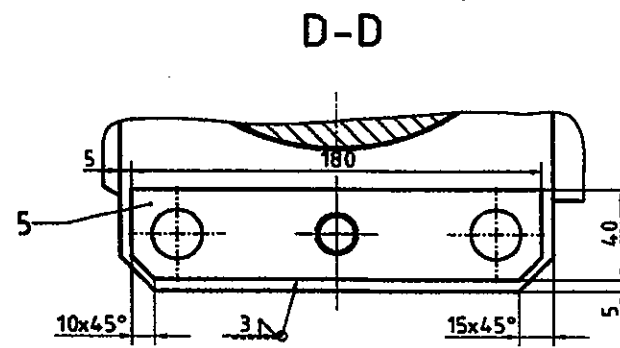
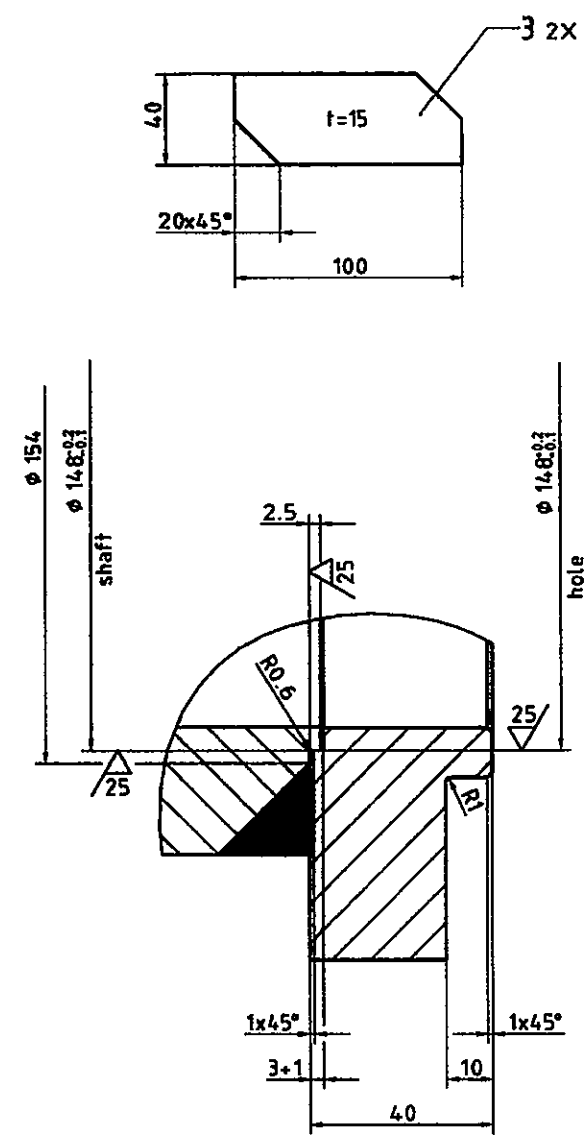
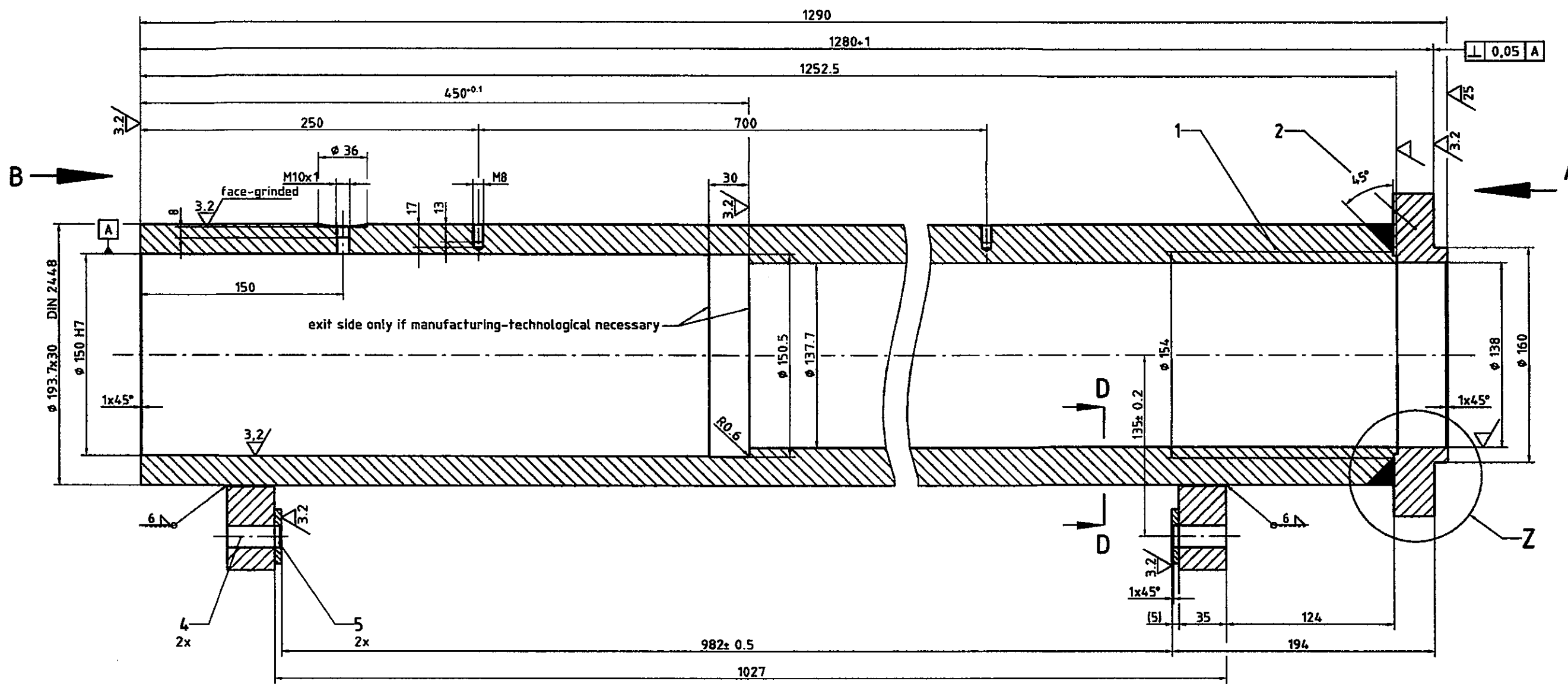
Drawing Number  
 PD/R-  
 278699



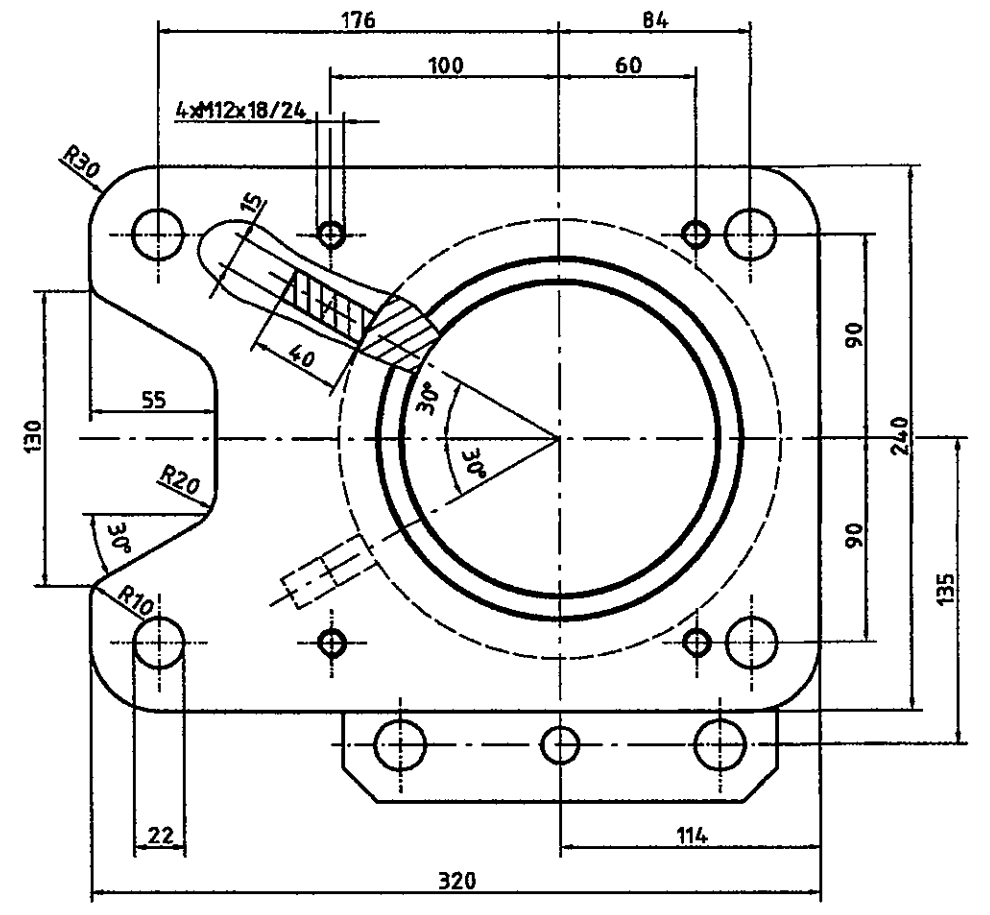
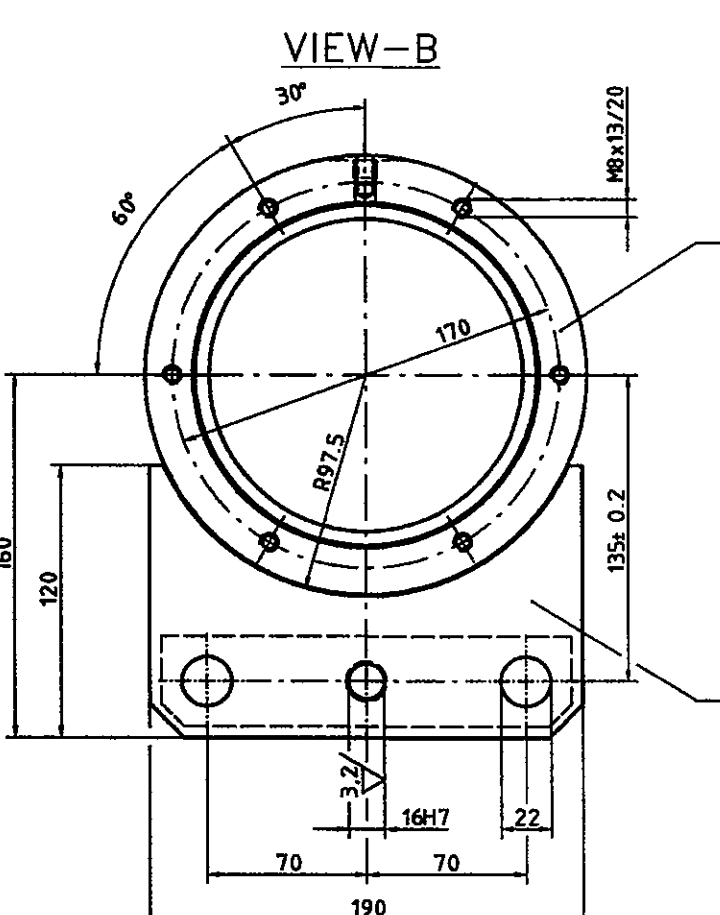
\*REPLICATED THE REFERENCE

1	BUSH- $\phi 150 \times 130 \times 100$		CuSn7Zn4Pb	1		4	
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. PART	TOTAL KG.
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED							
					<div style="display: flex; justify-content: space-between;"> <span>no machining</span> <span>smooth surface required &gt;80<math>\mu</math></span> <span><math>\nabla</math> 40-80<math>\mu</math></span> <span><math>\nabla\nabla</math> 16-40<math>\mu</math></span> <span><math>\nabla\nabla\nabla</math> upto 16<math>\mu</math></span> <span><math>\nabla\nabla\nabla\nabla</math> a<math>\mu</math></span> <span><math>\nabla(\nabla\nabla)</math> Finish <math>\nabla</math> except where shown <math>\nabla\nabla</math></span> </div>	Tolerance IS : 919 & IS : 2102 (medium)	
			 <b>सेल SAIL</b>		<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>		
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME
<b>REVISION</b>					DGN.		SMS-II
					DRN	06.05.24	S.LAHERI
					CHD.	2/15	CK PONY
REF.DRG.				SCALE	APPROVED	SUPERSEDES	Drawing Number
*SMS-II/CCM-3/MOULD/BUSH-02				1:1			PD/R-
						W.O.No-9000097213	278700

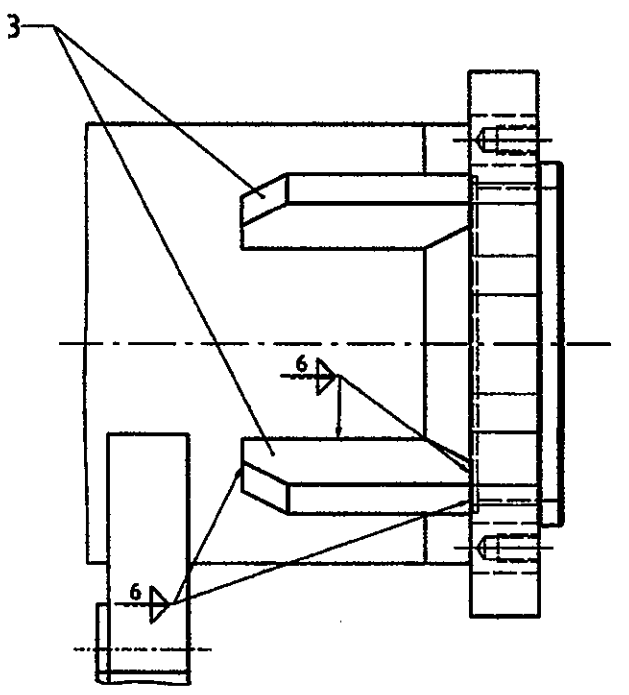
REVISION  
0



VIEW-A



VIEW-C



TOTAL WEIGHT ~ 144.52Kg

PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE	CATLG. PART	TOTAL KG.
5	GUIDE PLATE 4x40x180	IS:2062	Fe410WB+N	2			
4	SUPPORT PLATE 35x120x190	IS:2062	Fe410WB+N	2			
3	RIB 15x40x100	IS:2062	Fe410WB+N	2			
2	CLAMPING PLATE 40x240x320	IS:2062	Fe410WB+N	1			
1	PIPE $\phi$ 193.7/137.7x1252.5	IS:2062	Fe410WB+N	1			

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

no machining required  
smooth surface required  
40-80µ  
16-40µ  
upto 16µ  
0µ

Finish where shown except where shown  
Tolerance IS : 919 & IS : 2102 (medium)

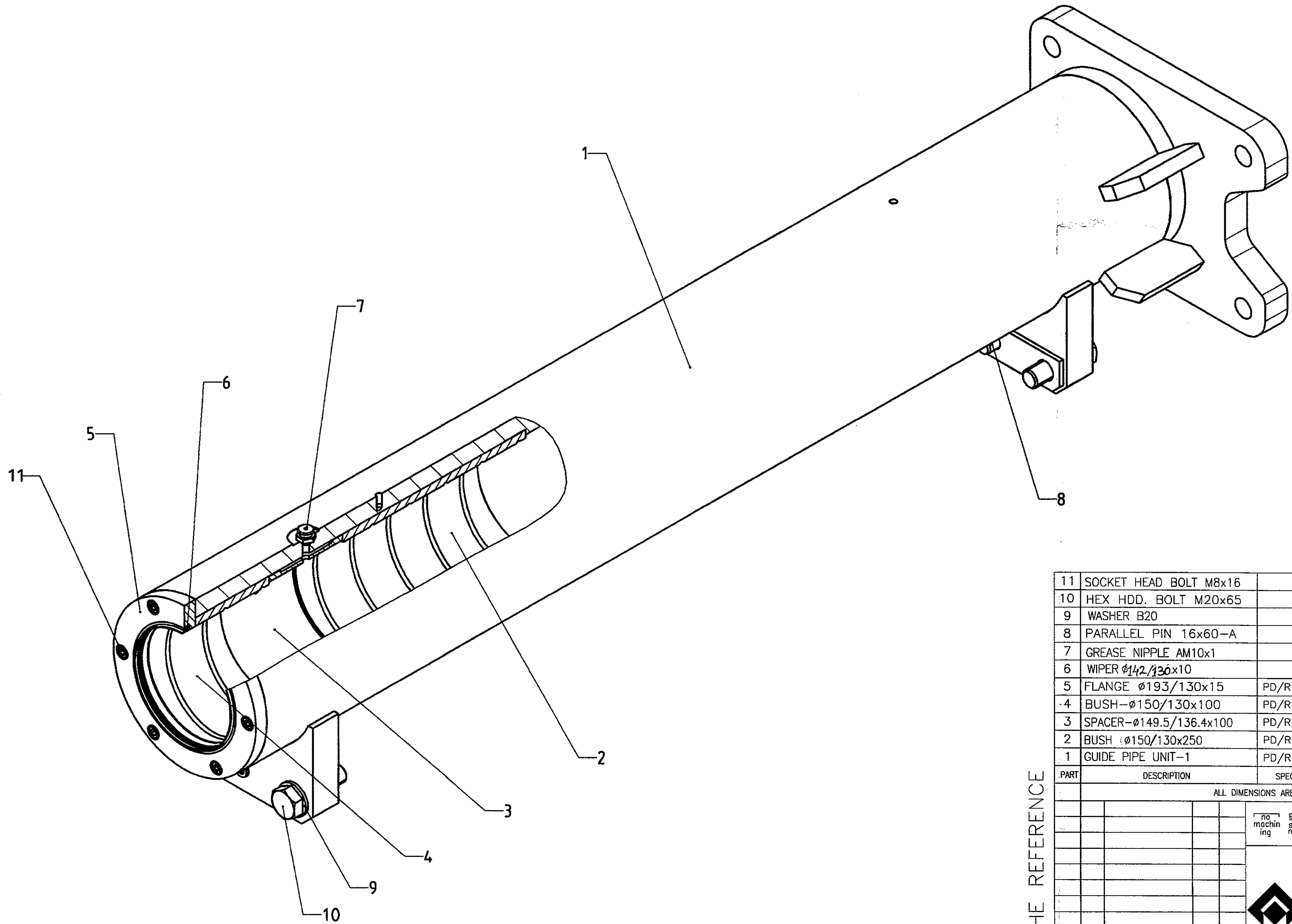
**राउरकेला इस्पात संयंत्र**  
**ROURKELA STEEL PLANT**  
 अभिकल्प विभाग  
 DESIGN DEPARTMENT

R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
REVISION								
					DGN.			CASTER-3
					DRN	08.05.24	S.LAHERI	PART DETAIL OF GUIDE PIPE-1
					CHD.			FOR MOULD 250mm
REF.DRG.		SCALE	APPROVED	SUPERSEDES	Drawing Number			
*SMS-II/CASTER-3/MOULD/GUIDE PIPE-17		NTS			PD/R-			
					W.O.NO--9000097213			278739

\*REPLICATED THE REFERENCE

8 7 6 5 4 3 2 1

F  
E  
D  
C  
B  
A



TOTAL WEIGHT~166Kg.

PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE	CATLG. PART	TOTAL KG.
11	SOCKET HEAD BOLT M8x16			8.8	6		0.072
10	HEX HDD. BOLT M20x65			8.8	4		0.8
9	WASHER B20		St-HV200		4		0.68
8	PARALLEL PIN 16x60-A		St-HV500		2		1.66
7	GREASE NIPPLE AM10x1		St		1		0.028
6	WIPER $\phi 142/130 \times 10$		95AU V149		1		-
5	FLANGE $\phi 193/130 \times 15$	PD/R-278697	Fe410WB+N		1		1.7
4	BUSH- $\phi 150/130 \times 100$	PD/R-278700	CuSn7Zn4Pb7-C-GS		1		4
3	SPACER- $\phi 149.5/136.4 \times 100$	PD/R-278698	E250 B		1		2
2	BUSH $\phi 150/130 \times 250$	PD/R-278699	CuSn7Zn4Pb7-C-GS		1		10
1	GUIDE PIPE UNIT-1	PD/R-278739	Fe410WB+N		1		144.5

\*REPLICATED THE REFERENCE

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

no machining required  
smooth surface required  
40-80µ  
16-40µ  
upto 16µ  
0µ

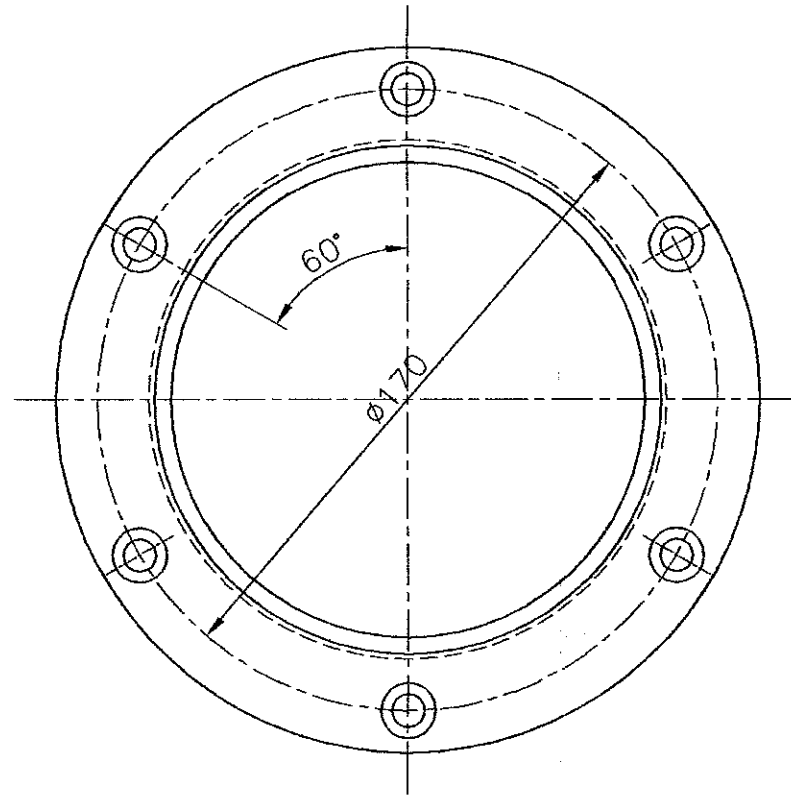
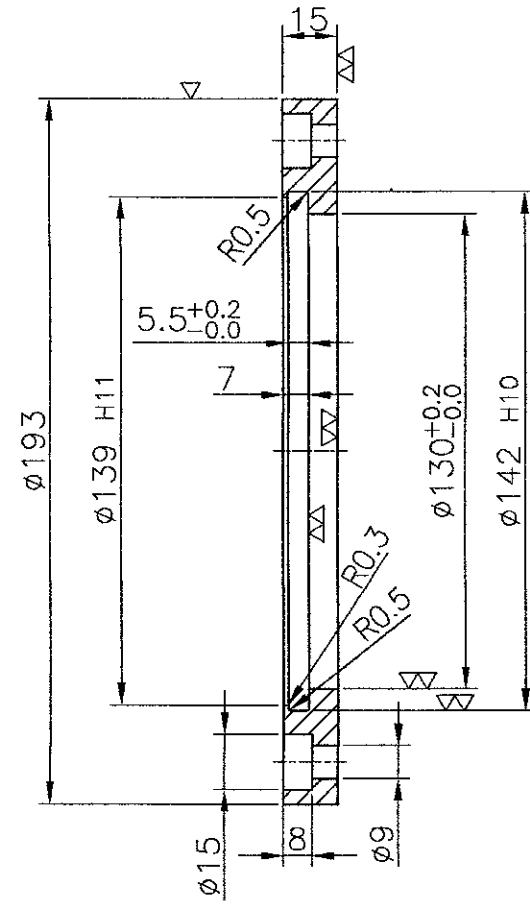
Finish except where shown  
Tolerance IS : 919 & IS : 2102 (medium)


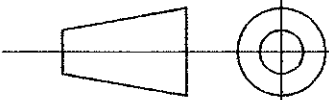
**राउरकेला इस्पात संयंत्र**  
**ROURKELA STEEL PLANT**  
**अभिकल्प विभाग**  
**DESIGN DEPARTMENT**

R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
<b>REVISION</b>								
					DGN.			CASTER-3
					DRN	10.05.24	S.LAHERI	GUIDE PIPE UNIT-1 ASSEMBLY
					CHD.			FOR MOULD 250mm
REF.DRG.	*SMS-II/CASTER-3/MOULD/GUIDE PIPE-16		SCALE	APPROVED	SUPERSEDES	Drawing Number		
			NTS				PD/R-	
							W.O.NO-900097213	278743

8 7 6 5 4 3 2 1

F  
E  
D  
C  
B  
A



PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG.	TOTAL KG.																
1	FLANGE $\phi 193/130 \times 15$		Fe410WB	1			1.7																
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED																							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">no machining</td> <td style="width: 10%; text-align: center;">smooth surface required</td> <td style="width: 10%; text-align: center;"><math>\nabla</math></td> <td style="width: 10%; text-align: center;"><math>\nabla\nabla</math></td> <td style="width: 10%; text-align: center;"><math>\nabla\nabla\nabla</math></td> <td style="width: 10%; text-align: center;"><math>\nabla/\nabla</math></td> <td colspan="2" style="text-align: center;"><math>\nabla(\nabla\nabla)</math> Finish <math>\nabla</math> except where shown <math>\nabla\nabla</math></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;"><math>40-80\mu</math></td> <td style="text-align: center;"><math>16-40\mu</math></td> <td style="text-align: center;">upto <math>16\mu</math></td> <td style="text-align: center;"><math>a\mu</math></td> <td colspan="2" style="text-align: center;">Tolerance IS : 919 &amp; IS : 2102 (medium)</td> </tr> </table>								no machining	smooth surface required	$\nabla$	$\nabla\nabla$	$\nabla\nabla\nabla$	$\nabla/\nabla$	$\nabla(\nabla\nabla)$ Finish $\nabla$ except where shown $\nabla\nabla$				$40-80\mu$	$16-40\mu$	upto $16\mu$	$a\mu$	Tolerance IS : 919 & IS : 2102 (medium)	
no machining	smooth surface required	$\nabla$	$\nabla\nabla$	$\nabla\nabla\nabla$	$\nabla/\nabla$	$\nabla(\nabla\nabla)$ Finish $\nabla$ except where shown $\nabla\nabla$																	
		$40-80\mu$	$16-40\mu$	upto $16\mu$	$a\mu$	Tolerance IS : 919 & IS : 2102 (medium)																	
 <b>सेल SAIL</b>		<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>																					
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME																
REVISION				DGN.	SMS-II																		
				DRN.	CASTER-III																		
REF.DRG.				CHD.	DETAIL OF FLANGE- $\phi 193/130 \times 15$																		
*SMS-II/CASTER-3/MOUL/FLANGE-18				SCALE	FOR MOULD 250mm																		
				APPROVED	SUPERSEDES		Drawing Number																
				1:2	W.O.No-9000097213		PD/R- 278697																
							REVISION 0																

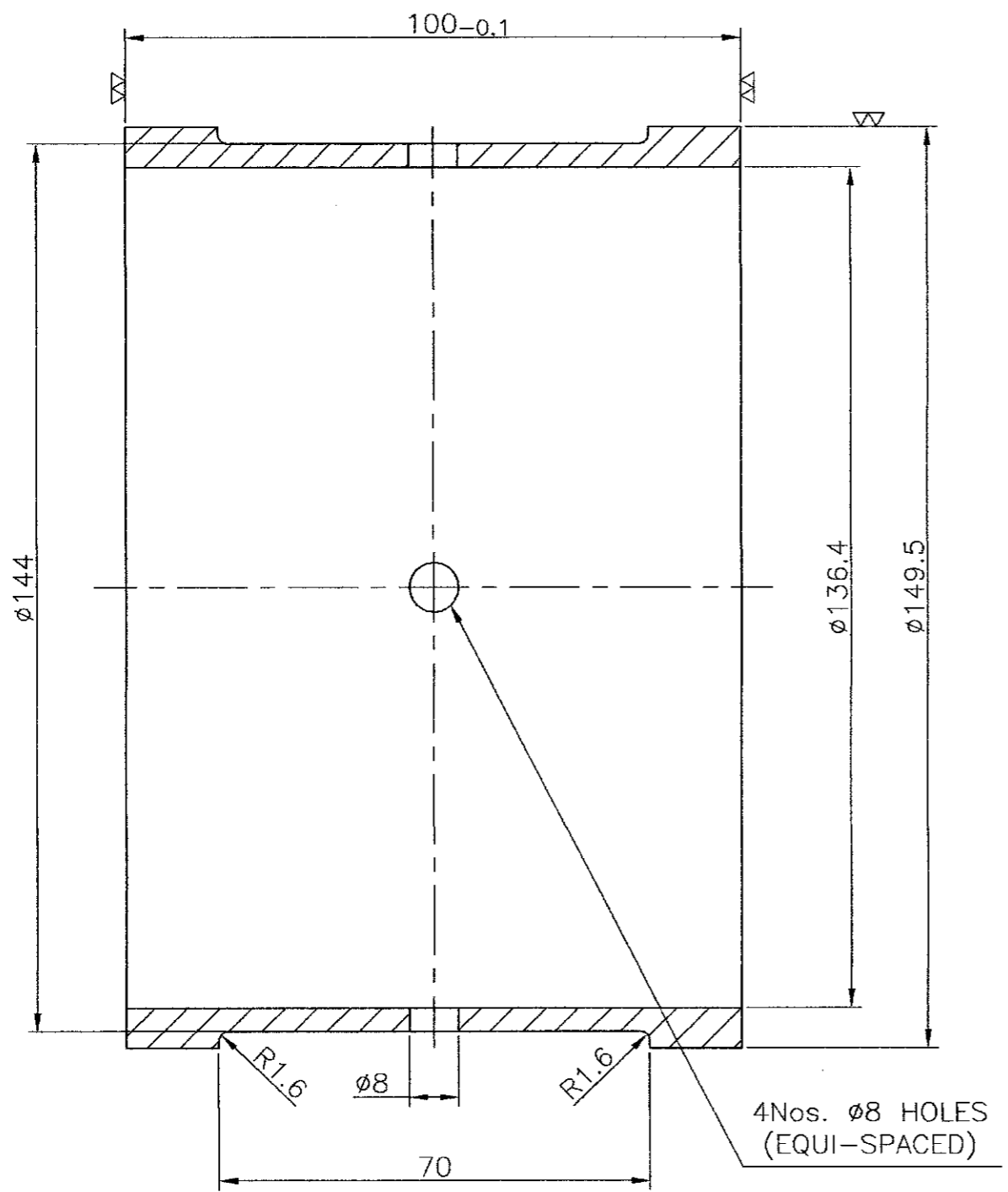
\*REPLICATED THE REFERENCE


6 5 4 3 2 1

D  
C  
B  
A

D  
C  
B  
A

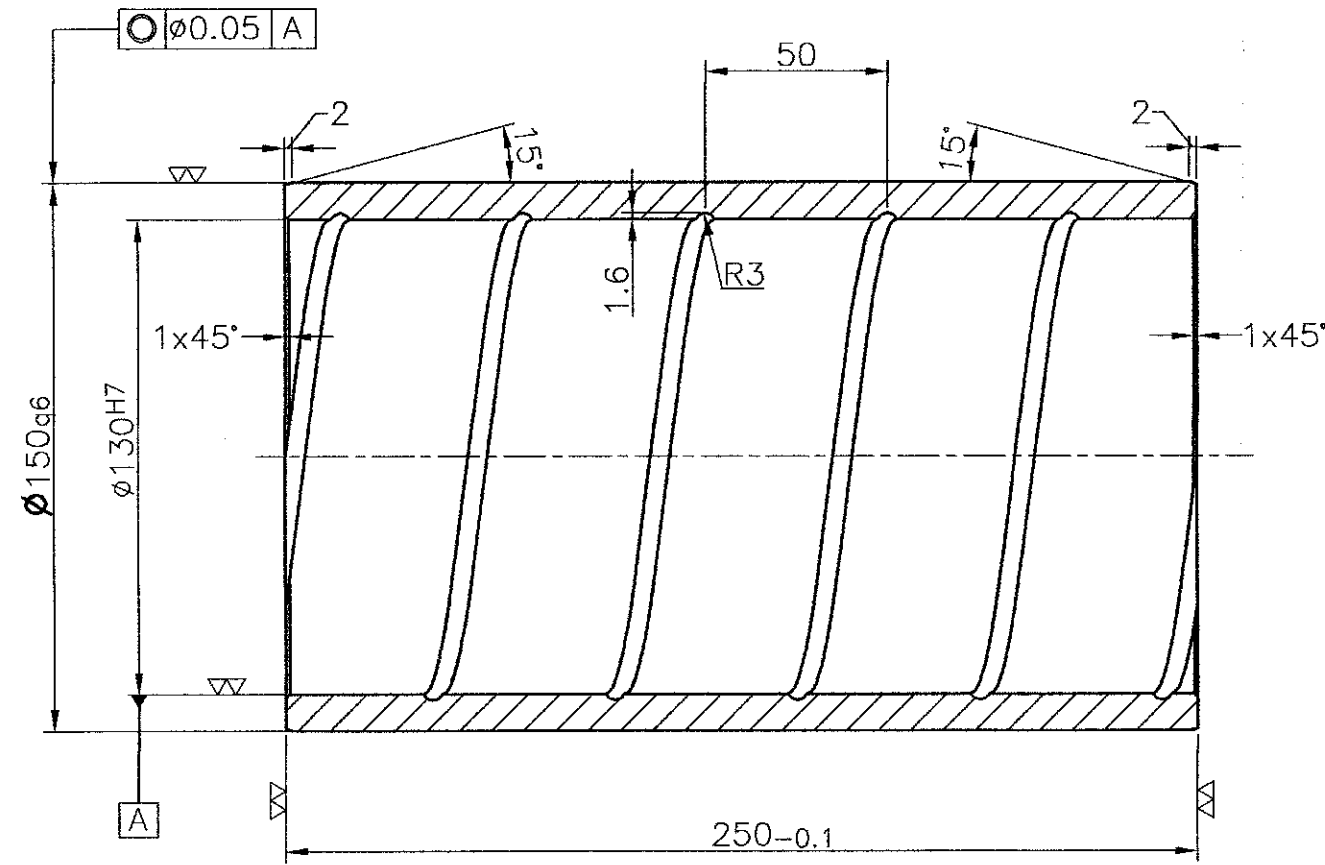
6 5 4 3 2 1



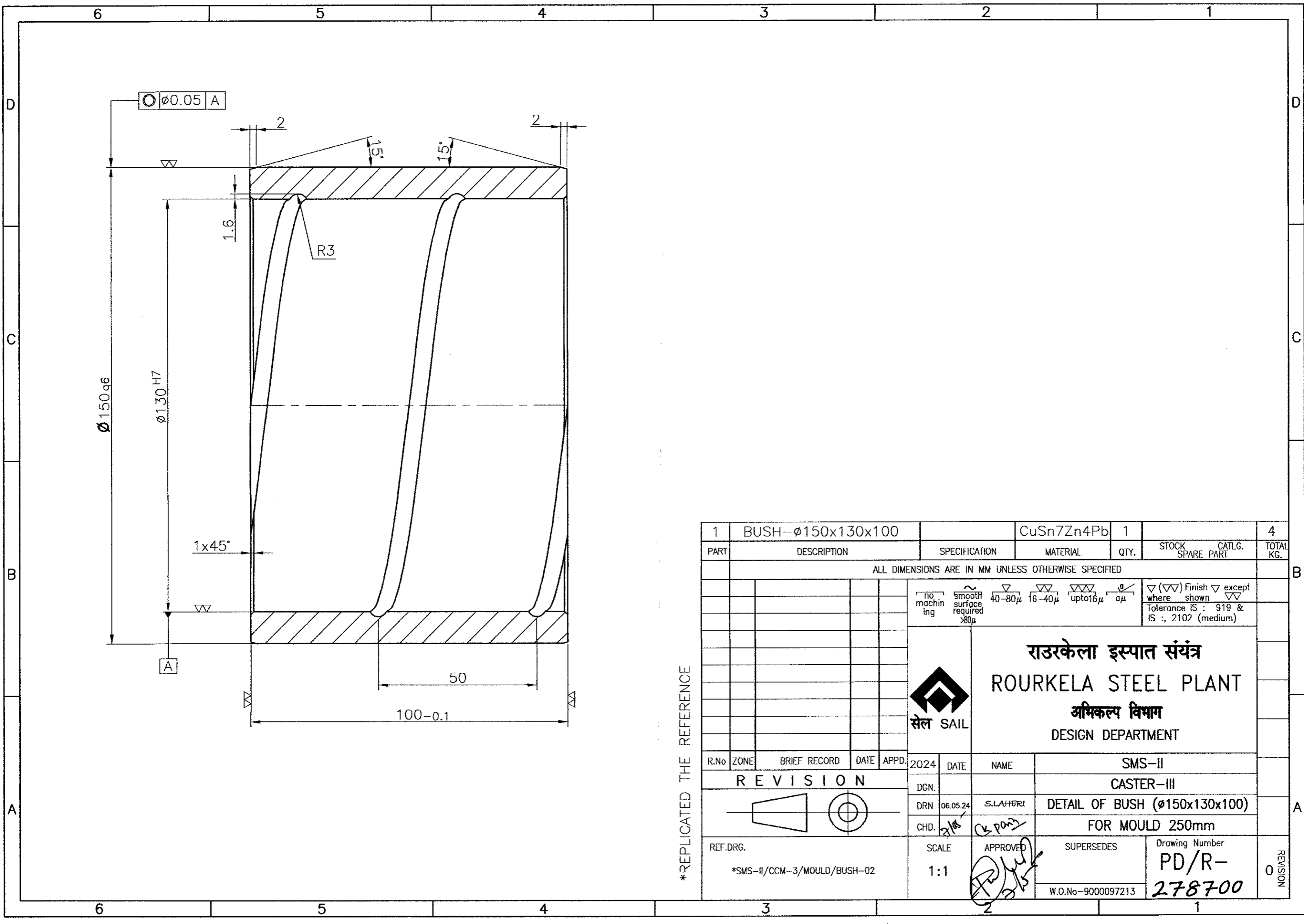
1	SPACER- $\phi$ 149.5/136.4x100		St37.0	1		2		
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. TOTAL KG.		
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED								
					$\nabla$ ( $\nabla$ ) Finish $\nabla$ except where shown $\nabla$ Tolerance IS : 919 & IS : 2102 (medium)			
					no machining smooth surface required $>80\mu$			
					$\nabla$ 40-80 $\mu$ $\nabla$ 16-40 $\mu$ $\nabla$ upto 16 $\mu$ $\nabla$ 0 $\mu$			
					 <b>सेल SAIL</b>			
					<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>			
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
REVISION				DGN.				CASTER-III
				DRN	05.06.24		S.LAHARI	DETAIL OF SPACER- $\phi$ 149.5/136.4x100
				CHD.	3/05		(Signature)	FOR MOULD 250mm.
REF.DRG.				SCALE	1:1	APPROVED	(Signature)	SUPERSEDES
*SMS-II/CASTER-3/MOULD/SPACER TUBE-19								Drawing Number <b>PD/R-278698</b>
						W.O.No--9000097213		REVISION 0


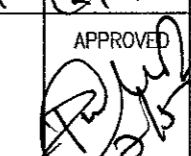
\*REPLICATED THE REFERENCE



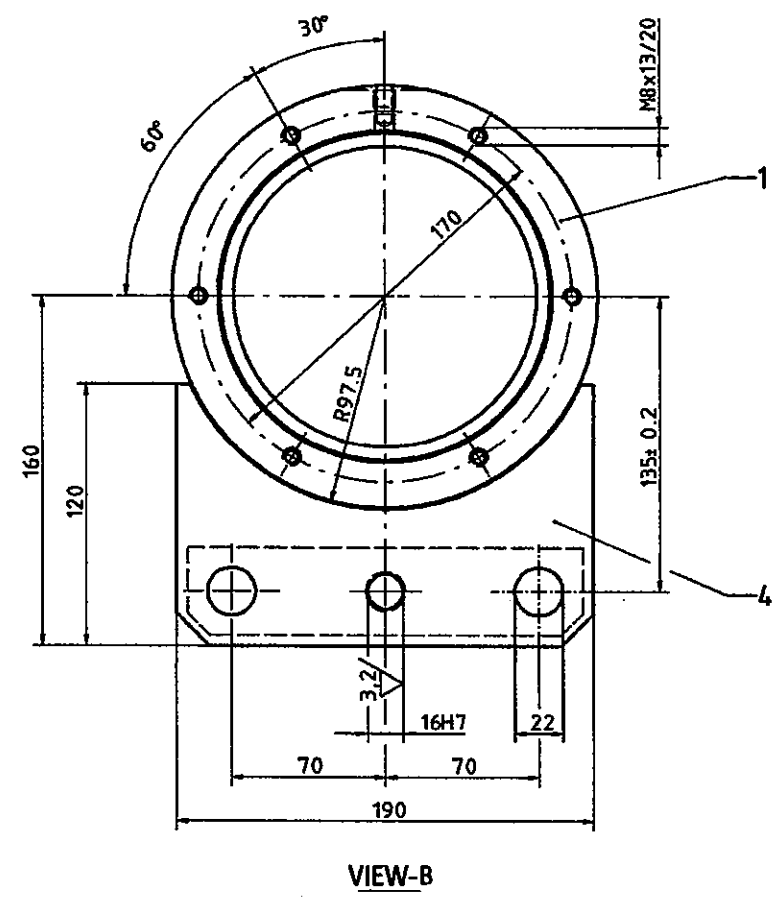
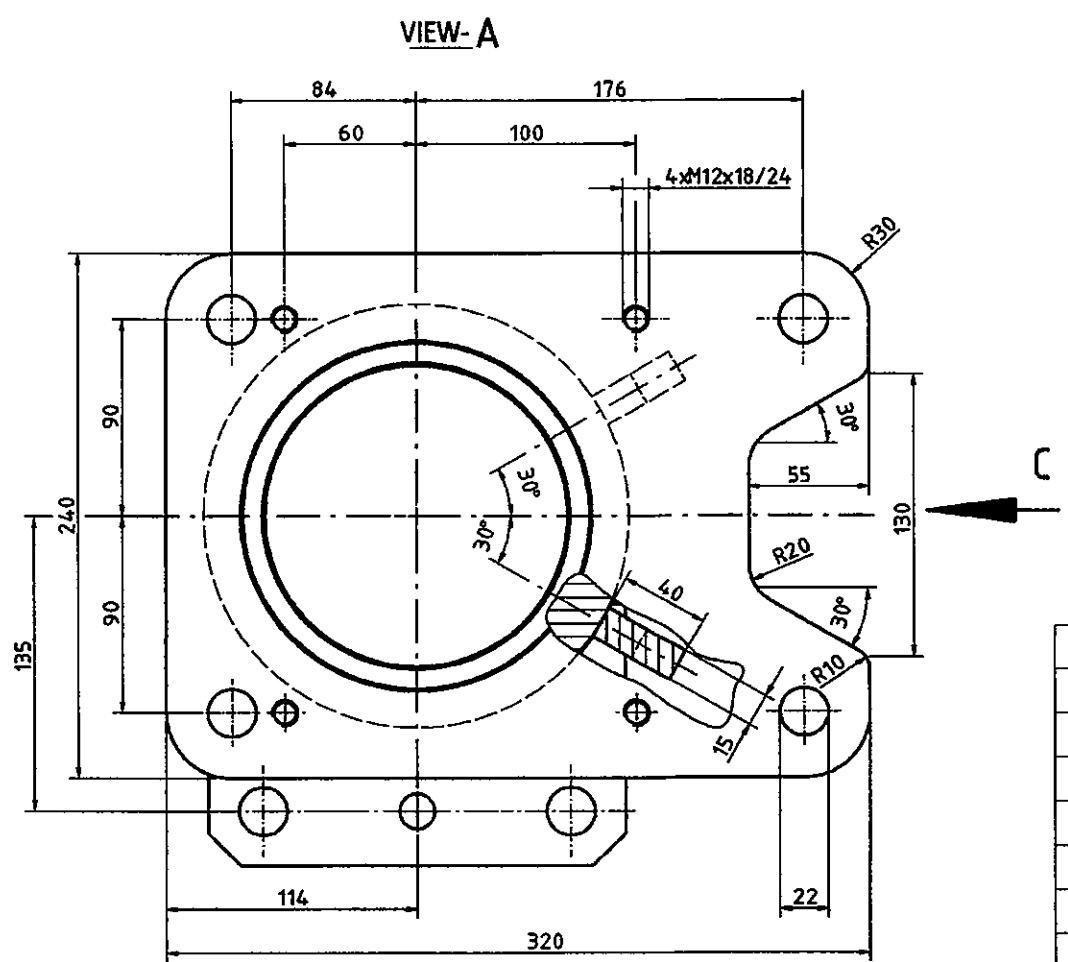
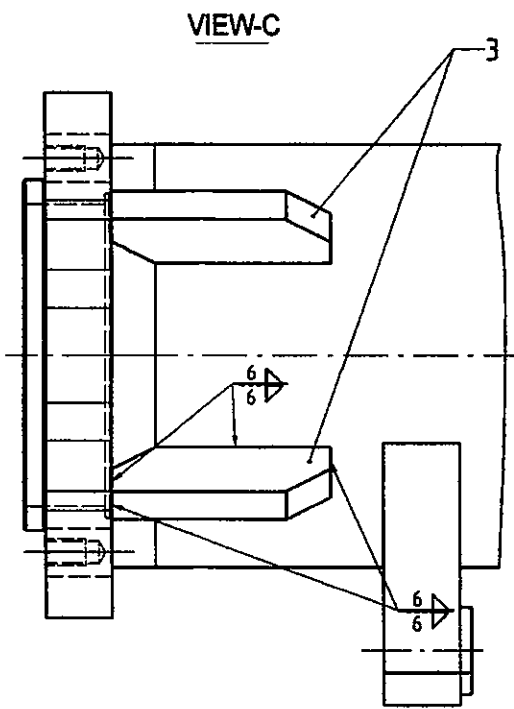
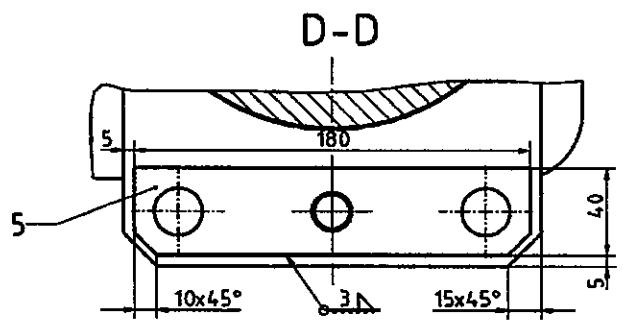
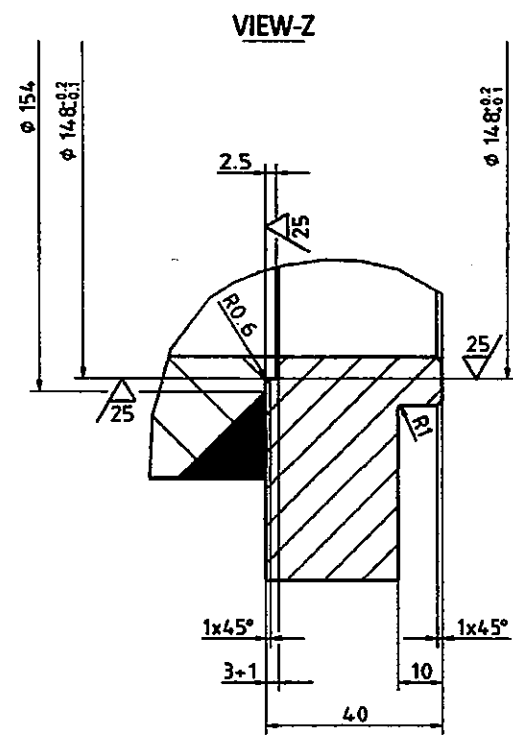
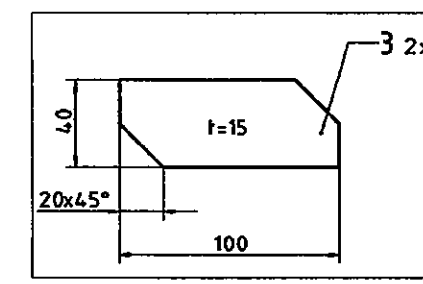
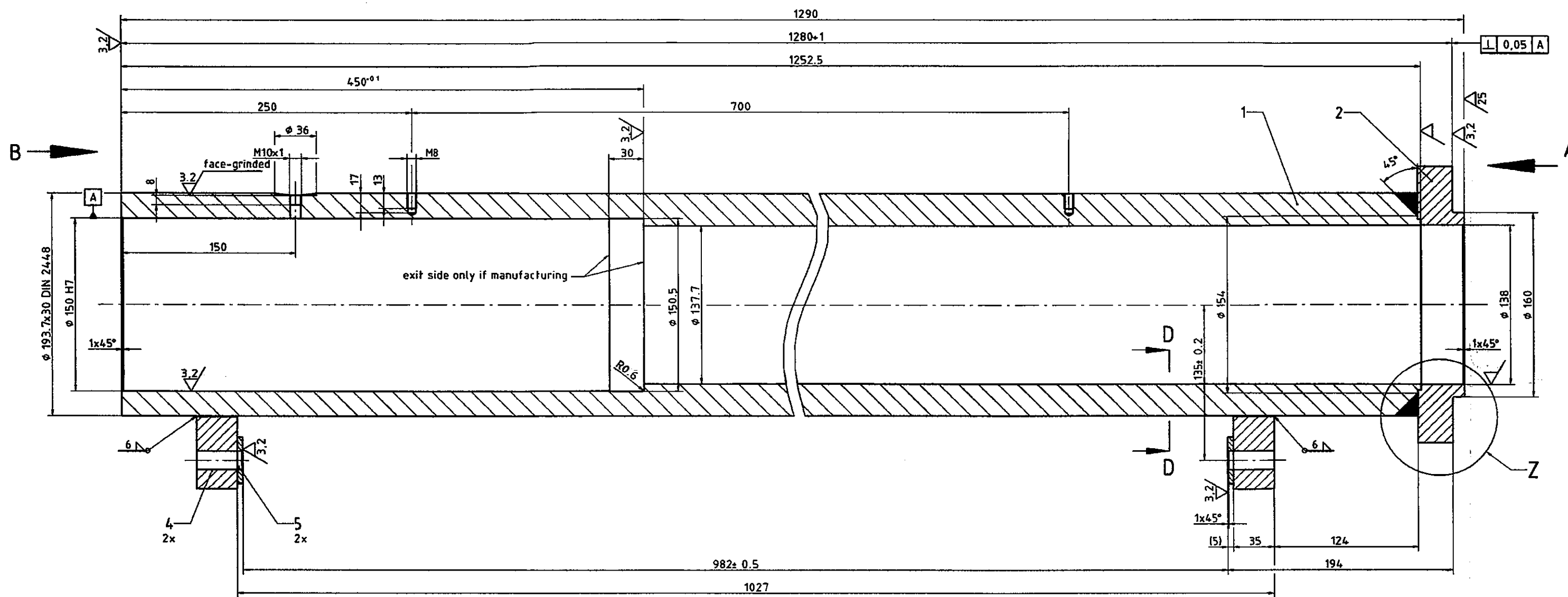


1	BUSH (∅150x130x250)		CuSn7Zn4Pb	1		10
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. TOTAL KG.
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED						
						∇(∇∇) Finish ∇ except where shown ∇∇ Tolerance IS : 919 & IS : 2102 (medium)
						no machining smooth surface required >80μ 40-80μ 16-40μ upto 16μ aμ
*REPLICATED THE REFERENCE 			सैल SAIL <b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>			
			R.No	ZONE	BRIEF RECORD	DATE
REF.DRG.			SCALE		APPROVED	SUPERSEDES Drawing Number <b>PD/R-278699</b> W.O.No-9000097213
*SMS-II/CASTER-3/MOULD/BUSH-01			1:2			0 REVISION



1	BUSH- $\phi 150 \times 130 \times 100$		CuSn7Zn4Pb	1		4		
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. TOTAL KG.		
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED								
					$\nabla$ ( $\nabla$ ) Finish $\nabla$ except where shown $\nabla$ Tolerance IS : 919 & IS : 2102 (medium)			
			no machining smooth surface required $> 80\mu$	$\nabla$ 40-80 $\mu$	$\nabla$ 16-40 $\mu$	$\nabla$ upto 16 $\mu$	$\nabla$ a $\mu$	
			 <b>सेल SAIL</b>					
			<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>					
R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
<b>REVISION</b>				DGN.				CASTER-III
				DRN	06.05.24	S.LATHERI		DETAIL OF BUSH ( $\phi 150 \times 130 \times 100$ )
				CHD.				FOR MOULD 250mm
REF.DRG.				SCALE	APPROVED	SUPERSEDES	Drawing Number	
*SMS-II/CCM-3/MOULD/BUSH-02				1:1			PD/R-	
						W.O.No-9000097213	278700	
								REVISION 0

\*REPLICATED THE REFERENCE



TOTAL WEIGHT ~ 144.52 Kg

PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG.	TOTAL KG.
5	GUIDE PLATE 4x40x180	IS:2062	Fe410WB+N	2			
4	SUPPORT PLATE 35x120x190	IS:2062	Fe410WB+N	2			
3	RIB 15x40x100	IS:2062	Fe410WB+N	2			
2	CLAMPING PLATE 40x240x320	IS:2062	Fe410WB+N	1			
1	PIPE 193.7/137.7x1252.5	IS:2062	Fe410WB+N	1			

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

no. machining  
smooth surface required >80µ

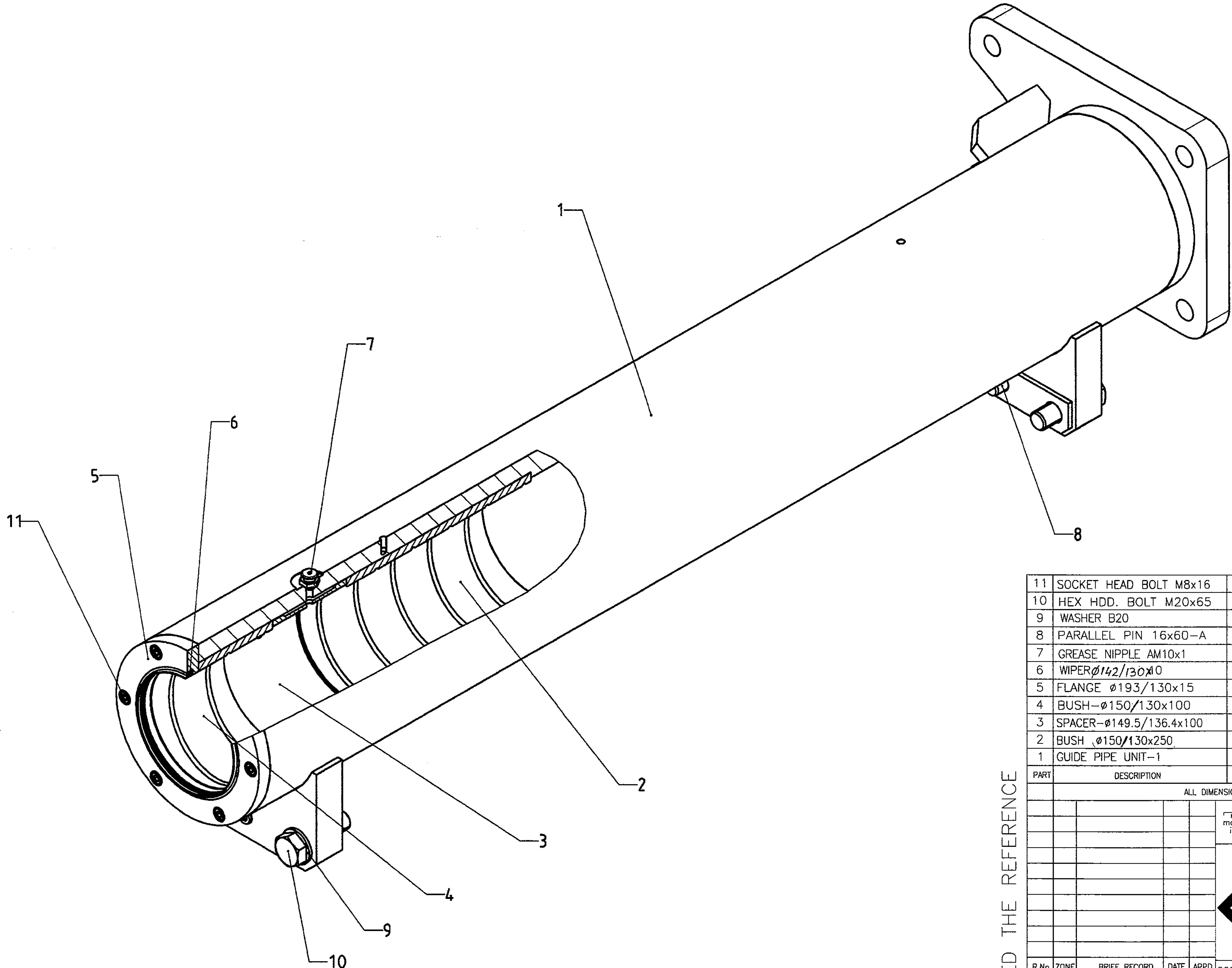
▽ 40-80µ  
▽ 16-40µ  
▽ upto 16µ  
▽ µ

▽ (▽) Finish where shown  
▽ except where shown  
Tolerance IS : 919 & IS : 2102 (medium)

**राउरकेला इस्पात संयंत्र**  
**ROURKELA STEEL PLANT**  
**अभिकल्प विभाग**  
**DESIGN DEPARTMENT**

R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
<b>REVISION</b>								
								CASTER-3
								PART DETAIL OF GUIDE PIPE-2
								FOR MOULD 250mm
REF.DRG.	SCALE		APPROVED	SUPERSEDES		Drawing Number		
*SMS-II/CASTER-3/MOULD/GUIDE PIPE-21	NTS					PD/R-		
							W.O.NO-9000097213	278737

\*REPLICATED THE REFERENCE




TOTAL WEIGHT~166Kg.

PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE	CATLG. PART	TOTAL KG.
11	SOCKET HEAD BOLT M8x16			8.8	6		0.072
10	HEX HDD. BOLT M20x65			8.8	4		0.8
9	WASHER B20		St-HV200		4		0.68
8	PARALLEL PIN 16x60-A		St-HV500		2		1.66
7	GREASE NIPPLE AM10x1		St		1		0.028
6	WIPER $\phi 142/130 \times 10$		95AU V149		1		-
5	FLANGE $\phi 193/130 \times 15$	PD/R-278697	Fe410WB+N		1		1.7
4	BUSH- $\phi 150/130 \times 100$	PD/R-278700	CuSn7Zn4Pb7-C-GS		1		4
3	SPACER- $\phi 149.5/136.4 \times 100$	PD/R-278698	E250 B		1		2
2	BUSH $\phi 150/130 \times 250$	PD/R-278699	CuSn7Zn4Pb7-C-GS		1		10
1	GUIDE PIPE UNIT-1	PD/R-278737	Fe410WB+N		1		144.5

\*REPLICATED THE REFERENCE

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED

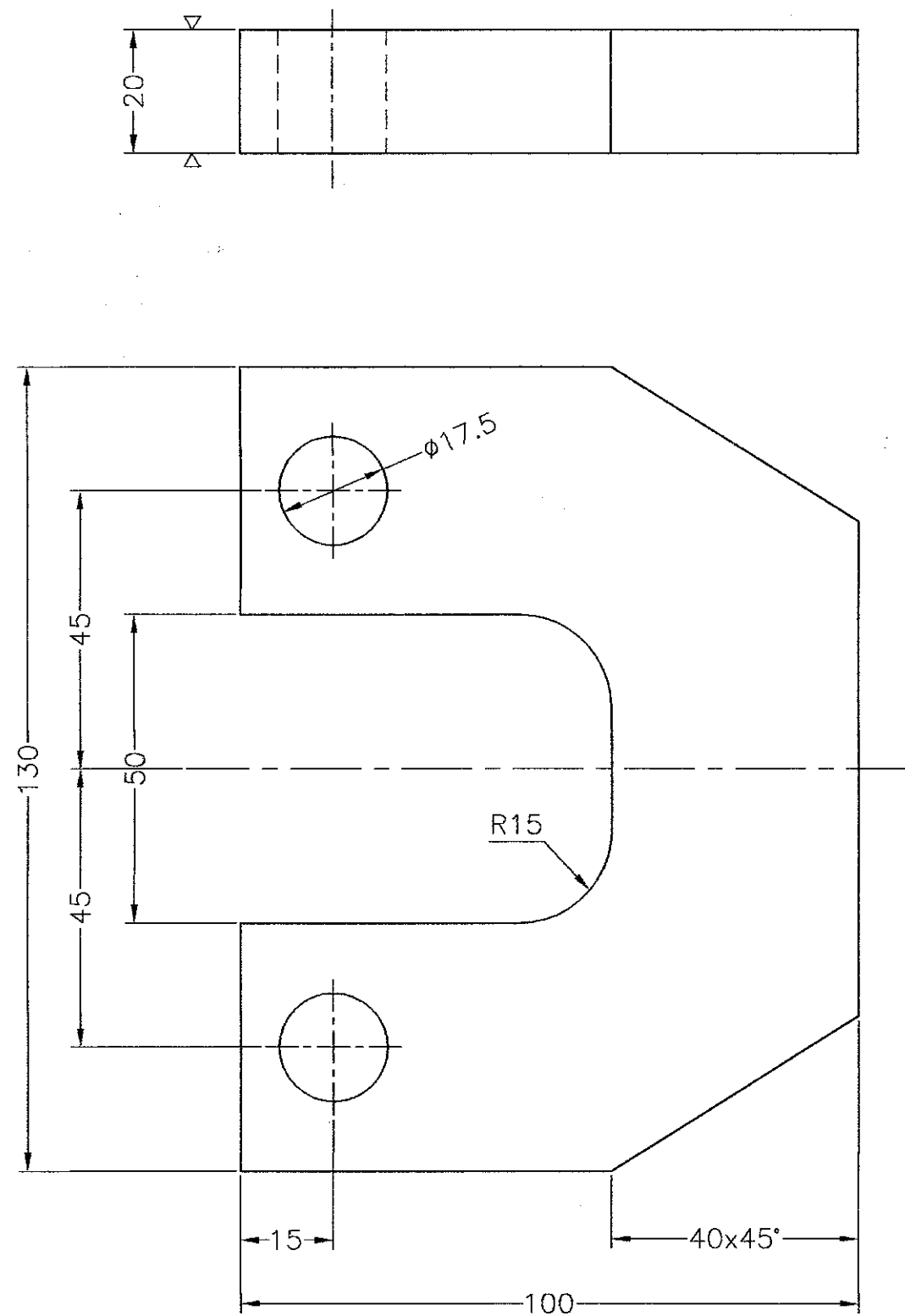
no machining	smooth surface required	40-80 $\mu$	16-40 $\mu$	upto 16 $\mu$	0 $\mu$	$\nabla$ (Finish where shown) except $\nabla$ (Finish where shown) Tolerance IS : 919 & IS : 2102 (medium)
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**राउरकेला इस्पात संयंत्र**  
**ROURKELA STEEL PLANT**  
**अभिकल्प विभाग**  
**DESIGN DEPARTMENT**

R.No	ZONE	BRIEF RECORD	DATE	APPD.	2024	DATE	NAME	SMS-II
<b>REVISION</b>								
					DGN.			CASTER-3
					DRN	10.05.24	S.LAHERI	GUIDE PIPE UNIT-2 ASSEMBLY
					CHD.			FOR MOULD 250mm

REF.DRG.	SCALE	APPROVED	SUPERSEDES	Drawing Number
*SMS-II/CASTER-3/MOULD/GUIDE PIPE-20	NTS			PD/R-278744
			W.O.NO-9000097213	



1	CLAMPING PLATE	IS:2062	Fe410WB+N	1		1.26			
PART	DESCRIPTION	SPECIFICATION	MATERIAL	QTY.	STOCK SPARE PART	CATLG. TOTAL KG.			
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED									
						∇ (∇∇) Finish ∇ except where shown ∇∇ Tolerance IS : 919 & IS : 2102 (medium)			
						no machining smooth surface required >80μ 40-80μ 16-40μ upto 16μ 0μ			
*REPLICATED FROM REFERENCE		 <b>सेल SAIL</b>		<b>राउरकेला इस्पात संयंत्र</b> <b>ROURKELA STEEL PLANT</b> <b>अभिकल्प विभाग</b> <b>DESIGN DEPARTMENT</b>					
				R.No	ZONE	BRIEF RECORD	DATE	APPD.	
				REVISION			2024	DATE	NAME
							DGN.		
REF.DRG.			SCALE	APPROVED	SUPERSEDES	Drawing Number			
*SMS-II/CASTER-3/MOULD/CLAMPING PLATE-22			1:1	 8/15		PD/R- <b>278693</b>			
					W.O.No-9000097213	REVISION 0			