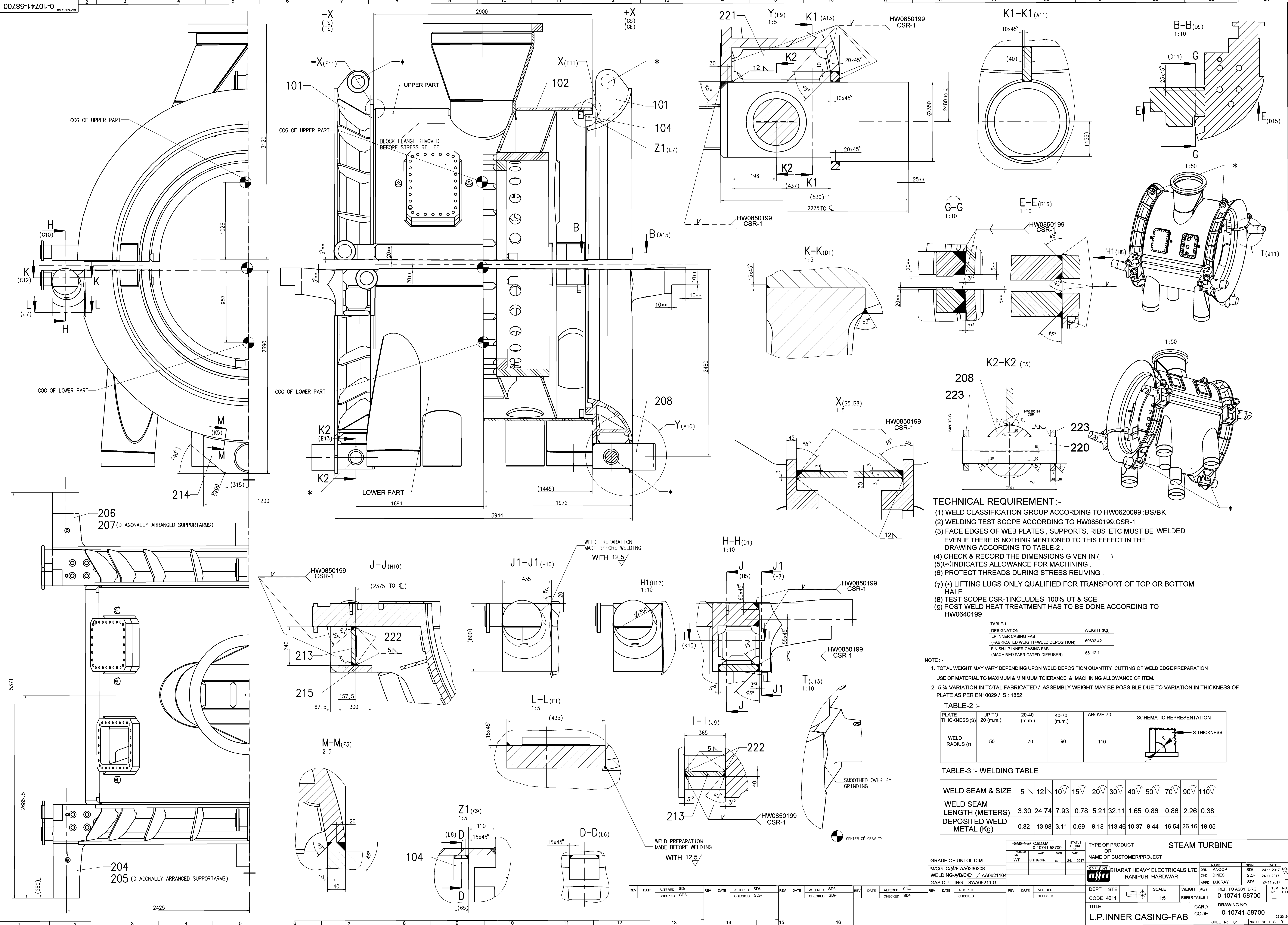




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INVENTORY NO
SIGN AND DATE
REF. DRG. NO.
TIN NO.

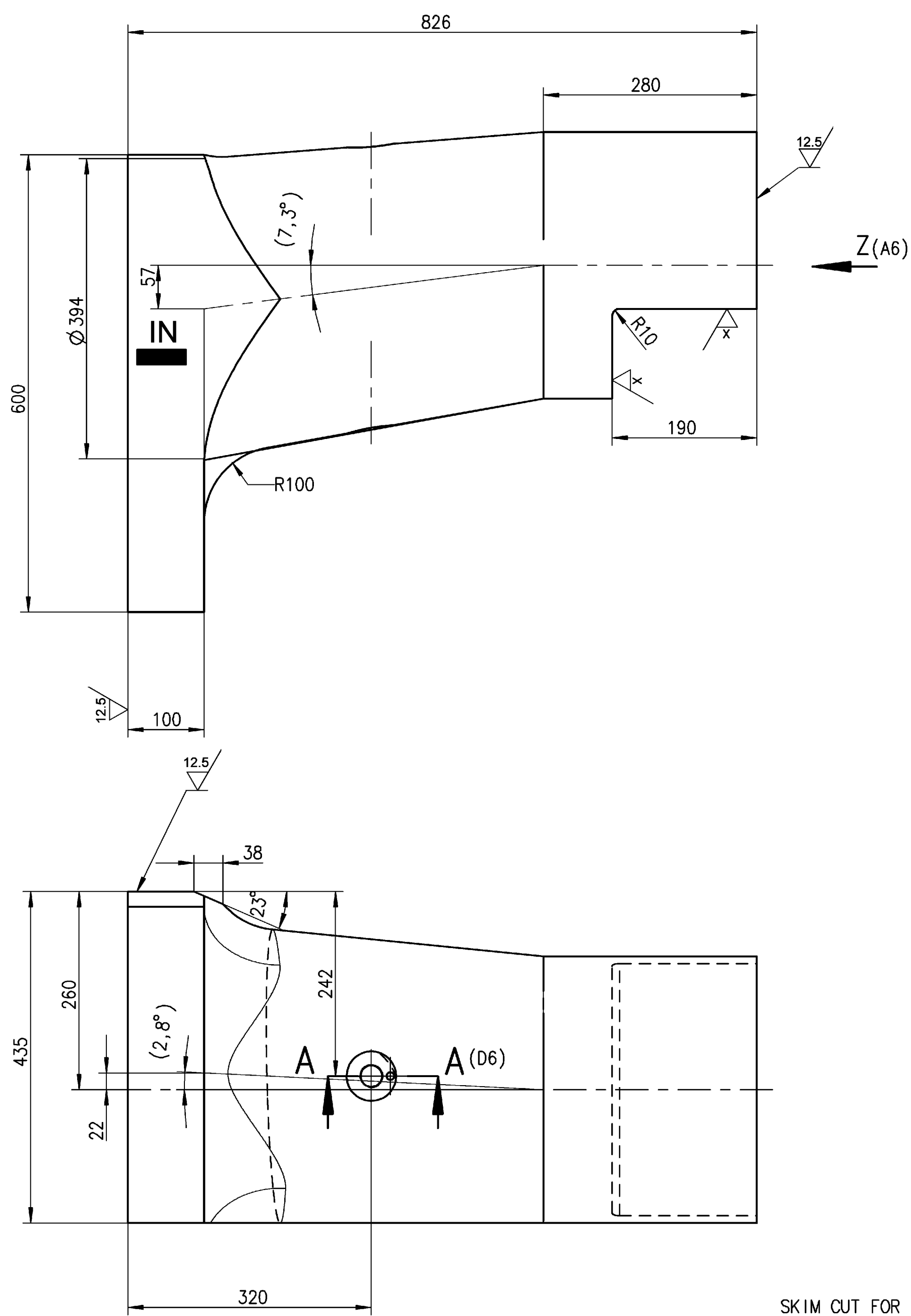
DSPPC-0101569

PSK040417

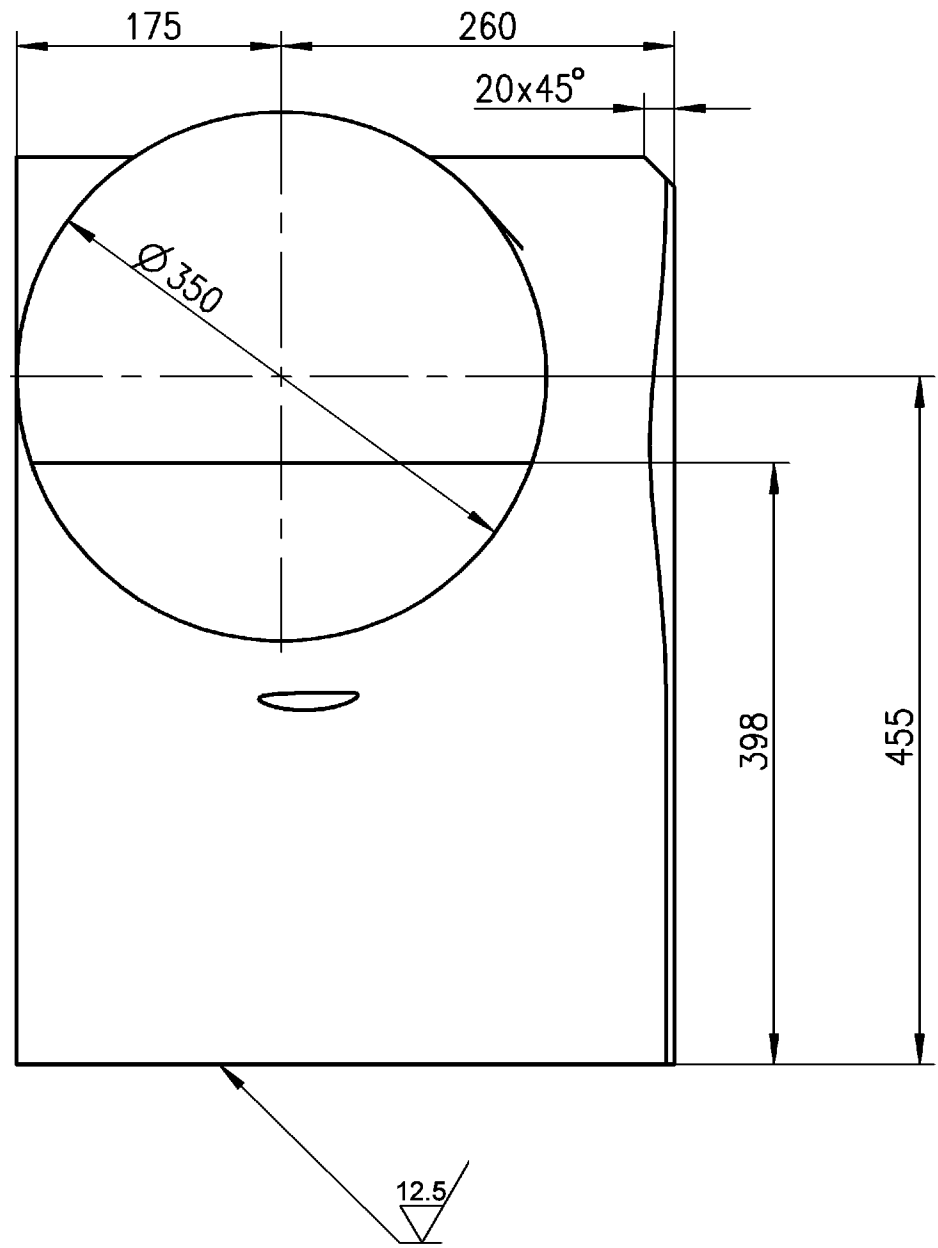
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

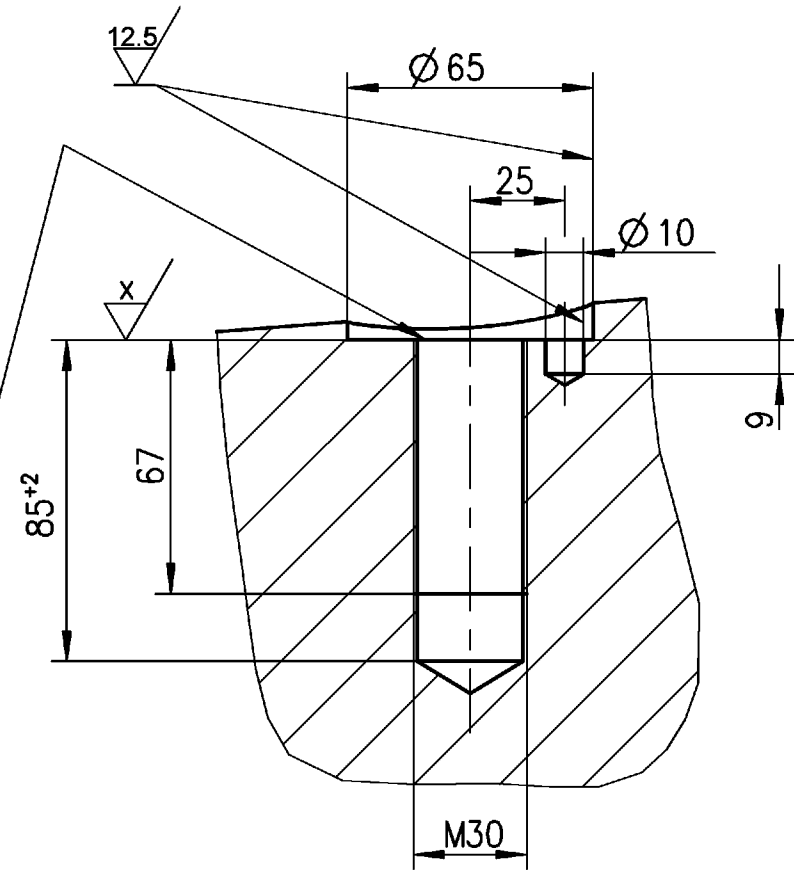
ALL OVER EXCEPT
OTHERWISE STATED



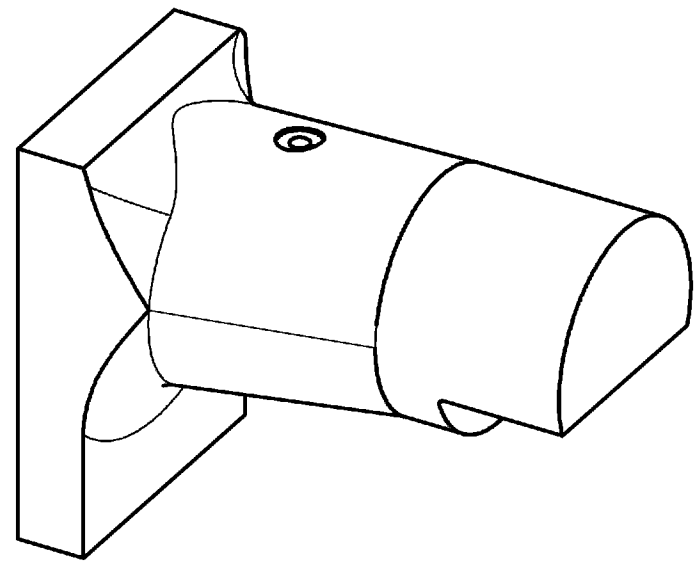
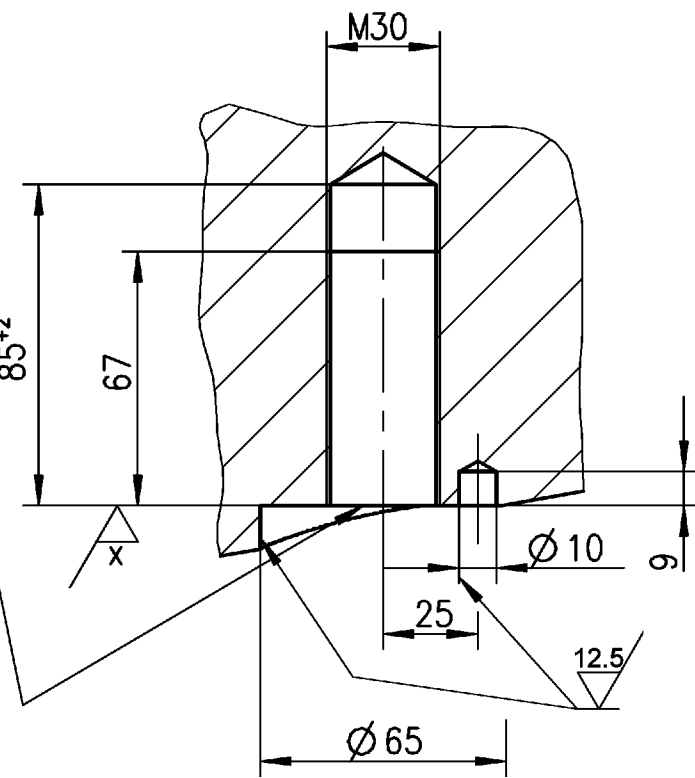
Z (B5)



A-A (E3)
1:2



SKIM CUT FOR
LOAD SHACKLE ACC. TO
KUN693.10
OR
REFER DRAWING NO.3-10740-56137



1:10

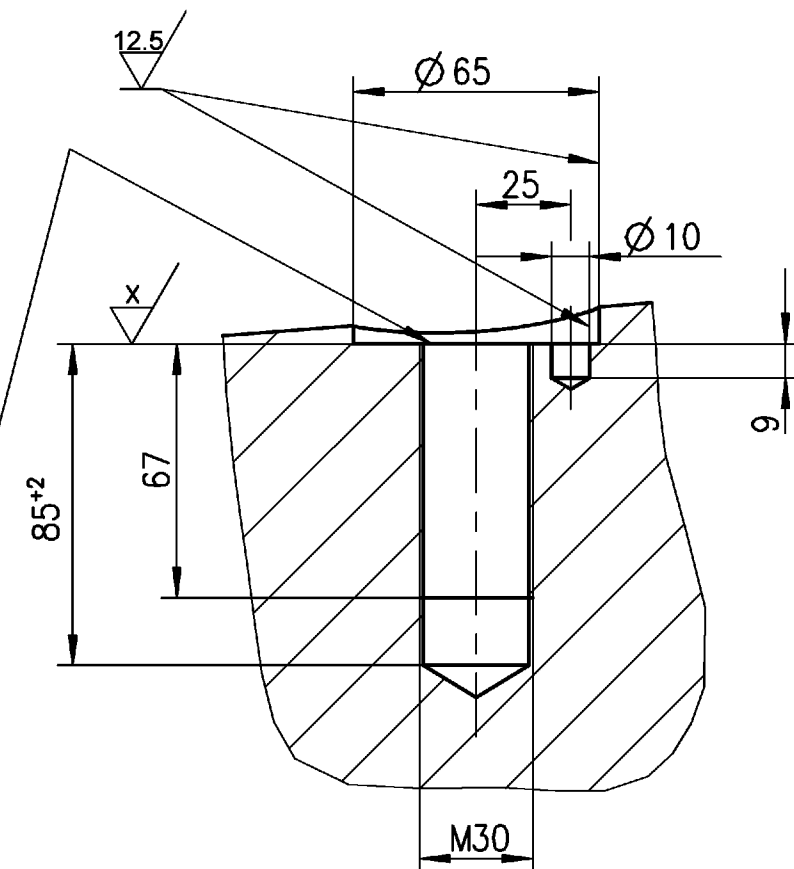
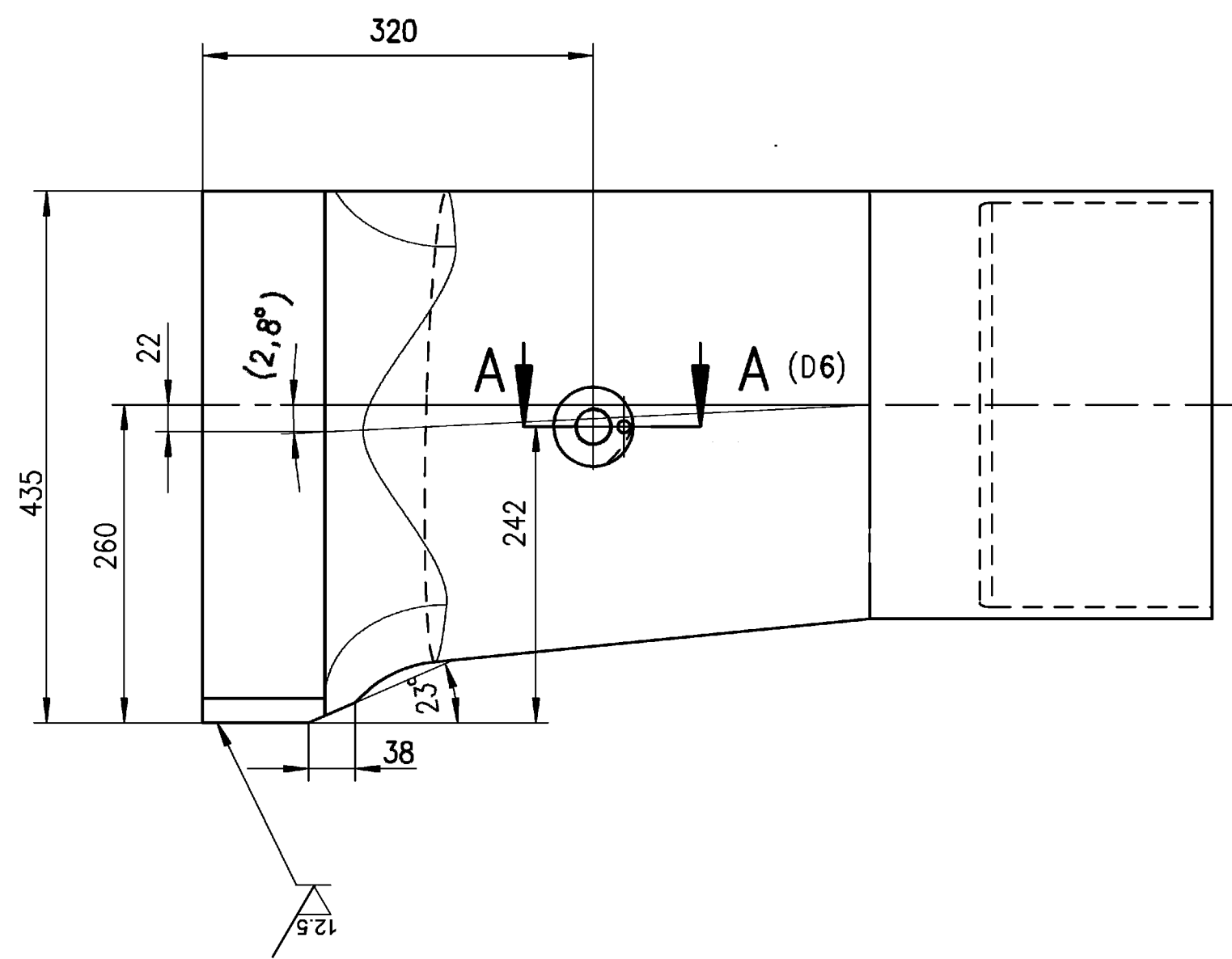
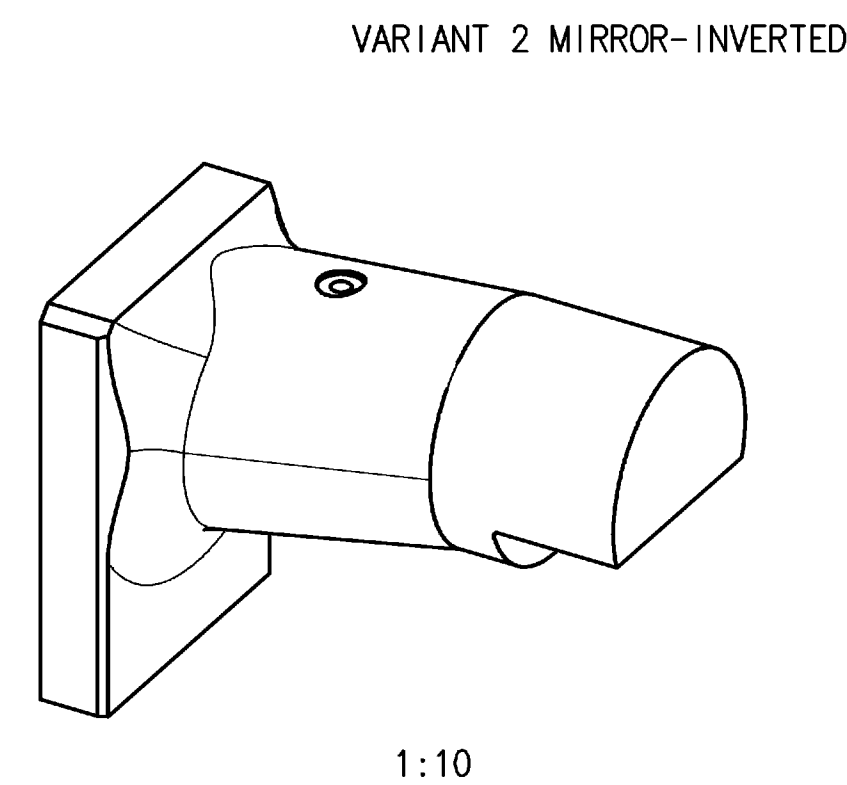
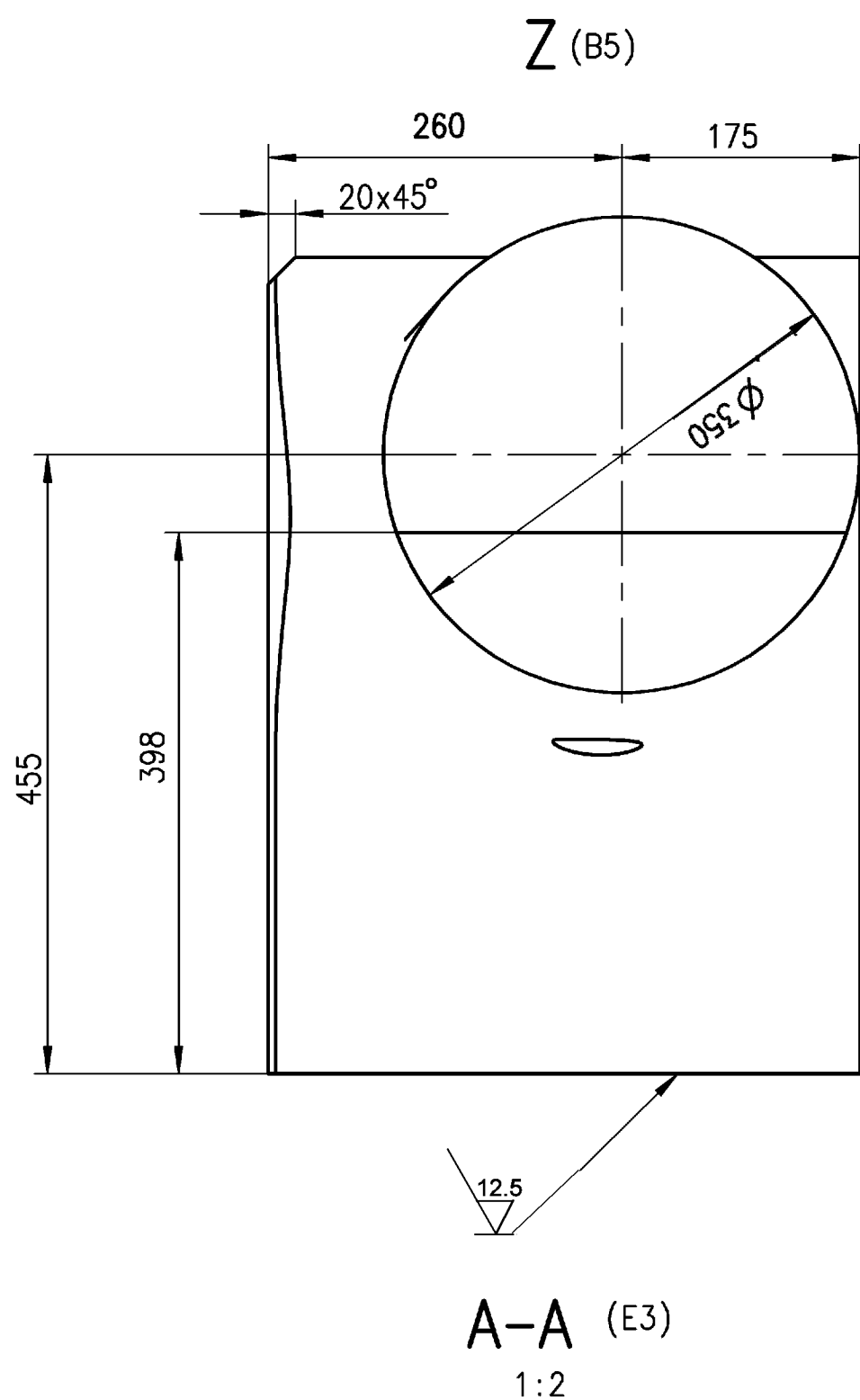
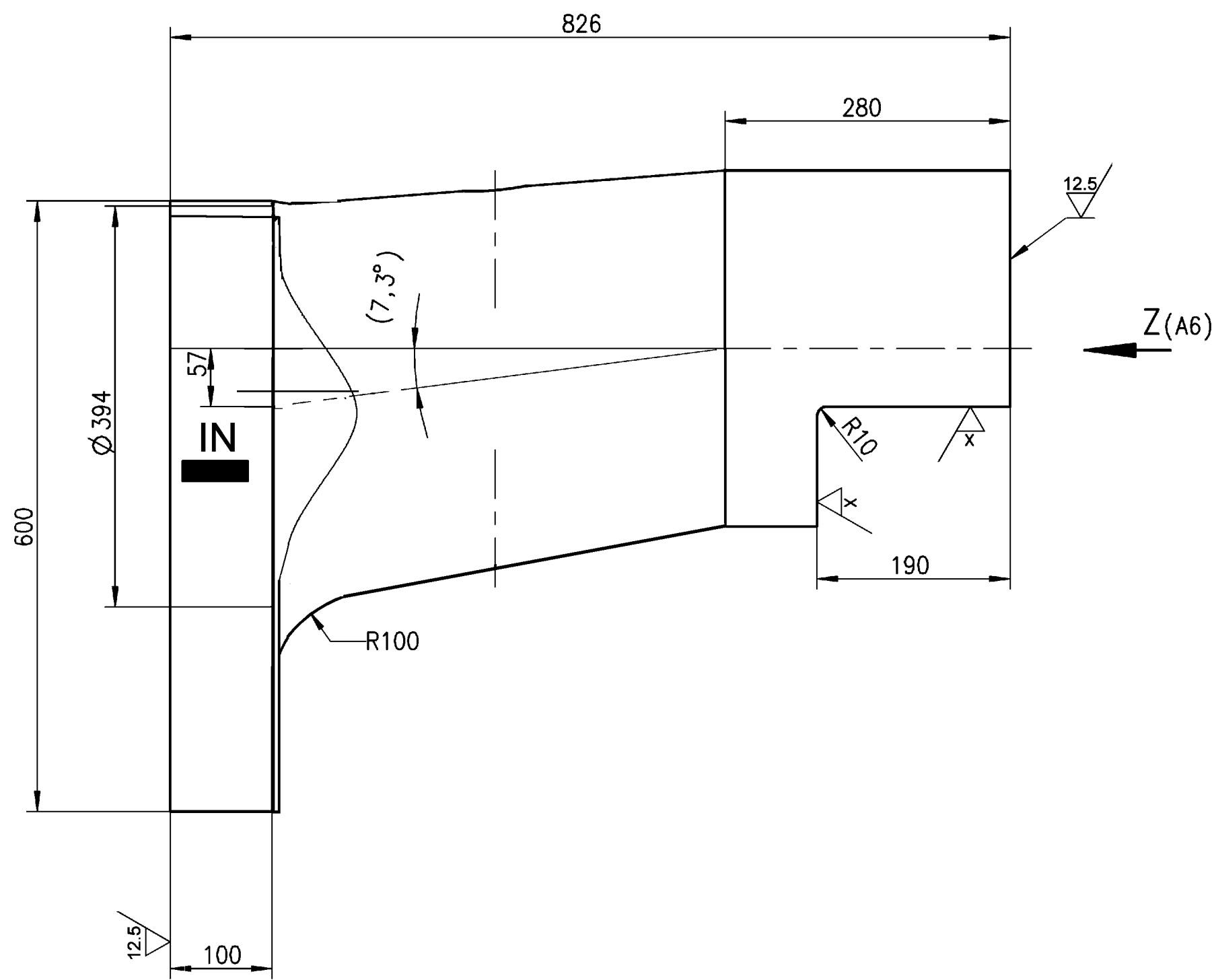
$\frac{x}{\sqrt{}} = \frac{12.5}{\sqrt{}}$

TECHNICAL REQUIREMENT

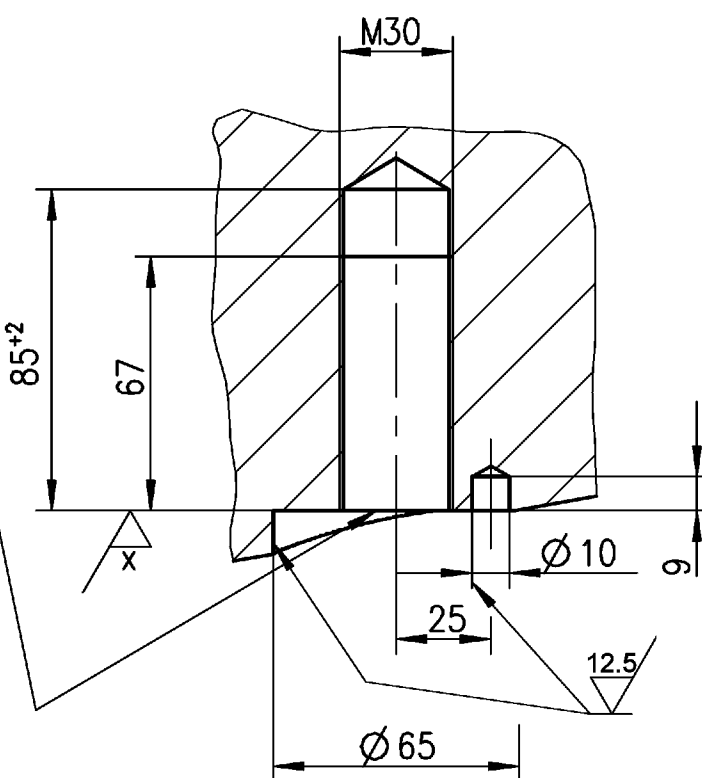
- (1) INDENTIFICATION ACCORDING TO HW0400397 AT PLACE MARKED WITH IN
(2) CASTING DRG. NO. 1-10741-58901 VAR 00 MATERIAL CODE : W91310741018

GMS No. C.B.O.M. - NO. 0-10741-58000				STATUS OF DRG				TYPE OF PRODUCT STEAM TURBINE			
AGREED				NAME				OR			
DEPT				SIGN				NAME OF CUSTOMER/PROJECT			
TTX				SD/-				BHARAT HEAVY ELECTRICALS LTD.			
DATE				DATE				RANIPUR, HARDWAR			
M/C.G.-C/M/F				NAME				DRN			
AA0230208				SD/-				ANOOP			
WELDING-A/B/C/D				SD/-				CHD			
AA0621104				SD/-				DINESH			
GAS CUTTING-T3/AA0621101				SD/-				APPD			
DATE				DATE				D.K.RAY			
ALTERED				ALTERED				SD/-			
CHECKED				CHECKED				04.08.12			
REV				REV				REV			
DATE				DATE				DATE			
ALTERED				ALTERED				ALTERED			
CHECKED				CHECKED				CHECKED			
DEPT				STE				SCALE			
CODE 4011				1:5				WEIGHT (KG)			
TITLE :				774				REF. TO ASSY. DRG.			
SUPPORT ARM				CARD				DRAWING NO.			
CODE				1-10741-58204				ITEM			
SHEET No. 01				No. OF SHEETS 01				22 23 24			

AI SIZE



KUN693.10
SKIM CUT FOR
LOAD SHACKLE ACC.TO
KUN693.10
OR
REFER DRAWING NO.3-10740-56137



$$\triangle x = \triangle 12.5$$

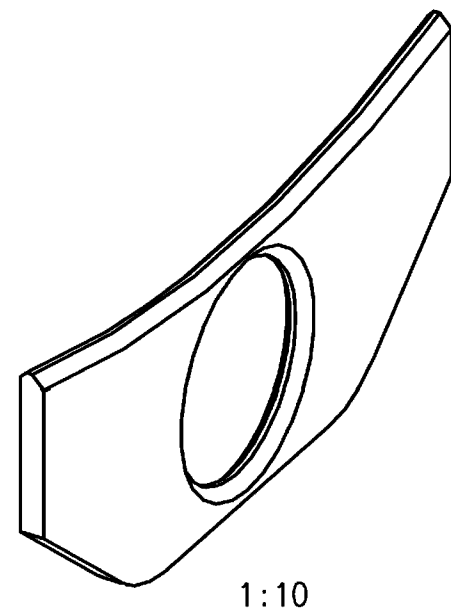
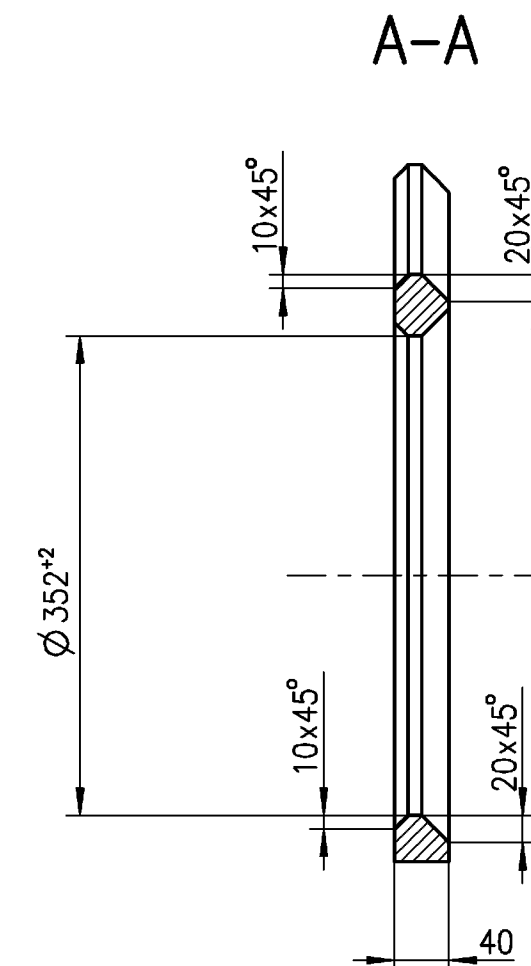
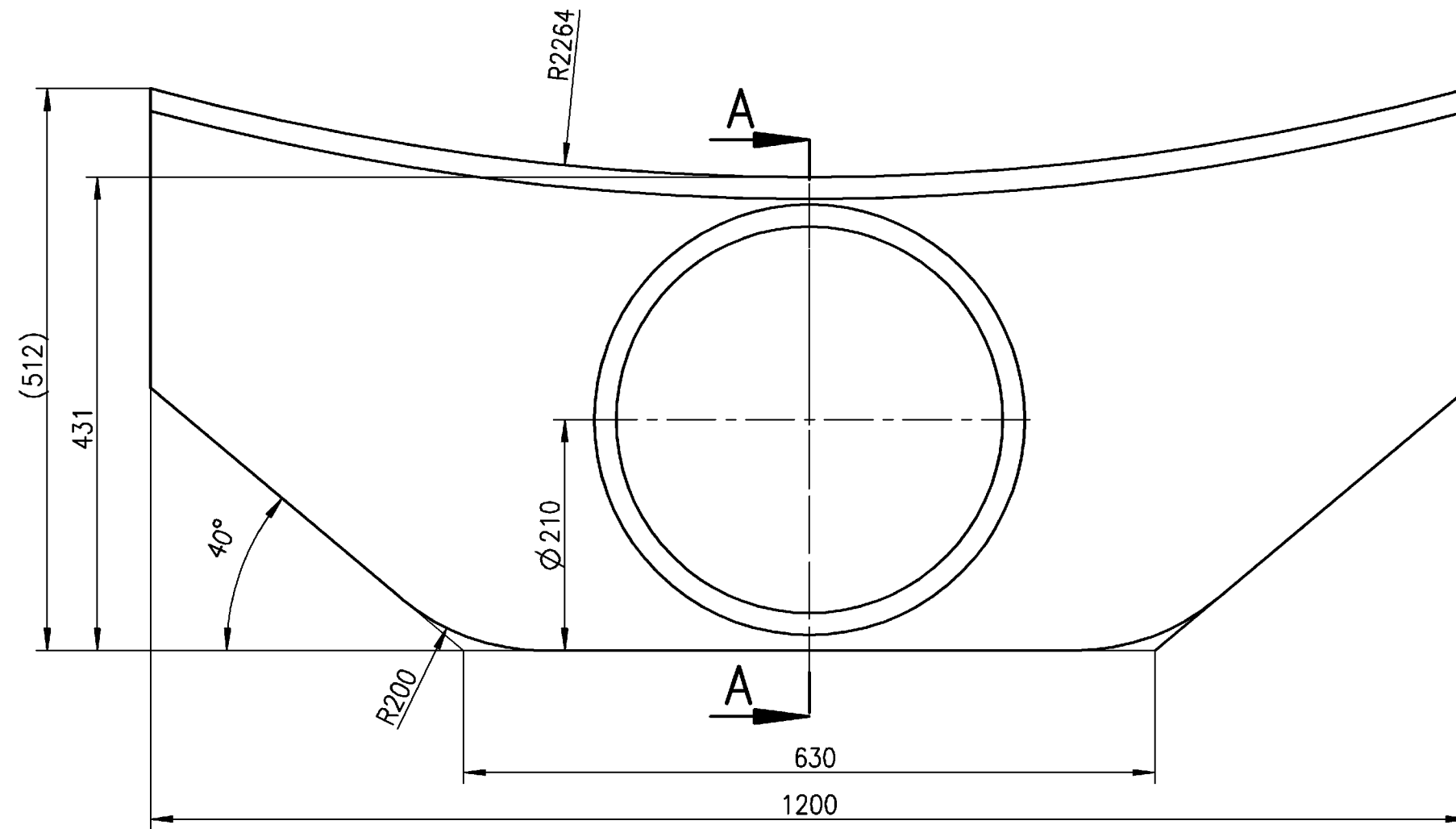
TECHNICAL REQUIREMENT

- (1) INDENTIFICATION ACCORDING TO HW0400397 AT PLACE MARKED WITH IN
(2) CASTING DRG. NO. 1-10741-58901 VAR 01 MATERIAL CODE : W91310741026

210

12.5

50/ ALL OVER EXCEPT
OTHERWISE STATED



TECHNICAL REQUIREMENT

(1) IDENTIFICATION ACCORDING TO HW0400397

Ref. No. DSPPC	SIGN & DATE	F													GMS No./ CBOM No. 0-10741-58000				STATUS OF DRG		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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			WELDING-A/B/C/DAA0621104																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			GAS CUTTING-T3'AA0621101																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Inventory No.	REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE	ALTERED		REV	DATE

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TIN NO.
PSK046L651

Ref.Drawing No>
DSPPG-0127019

Sign & Date

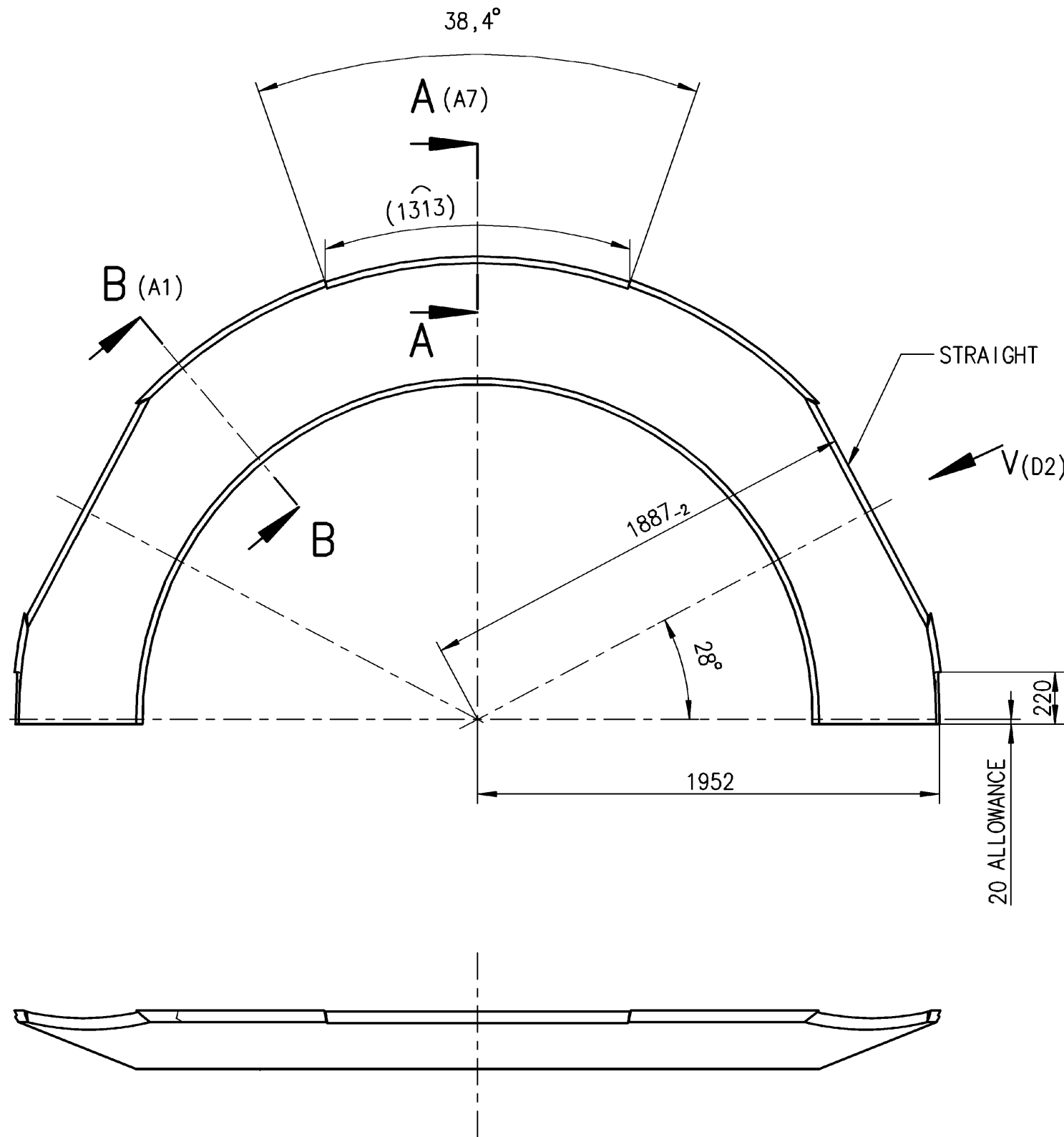
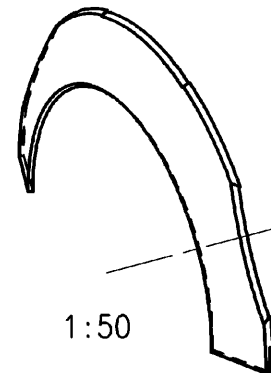
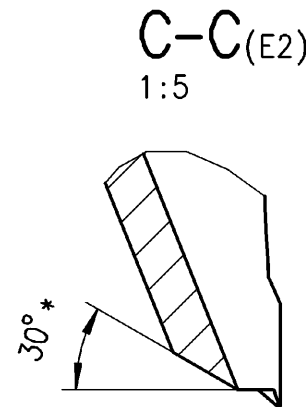
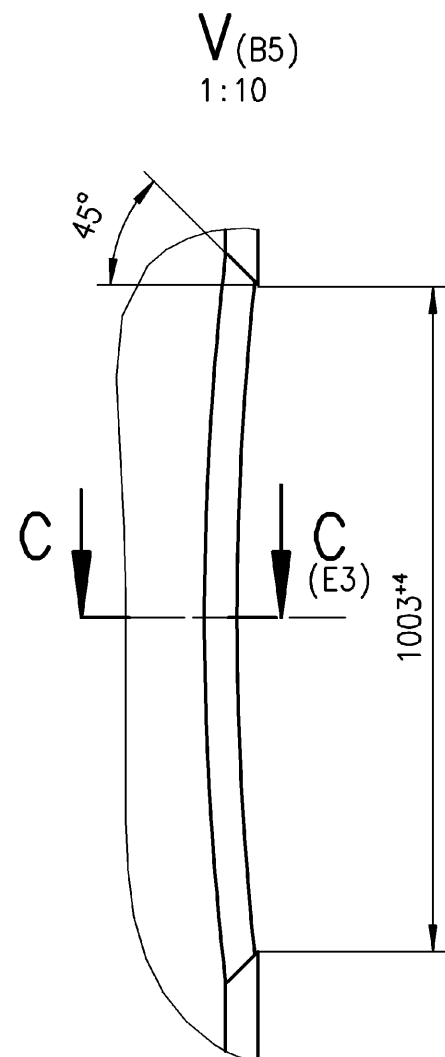
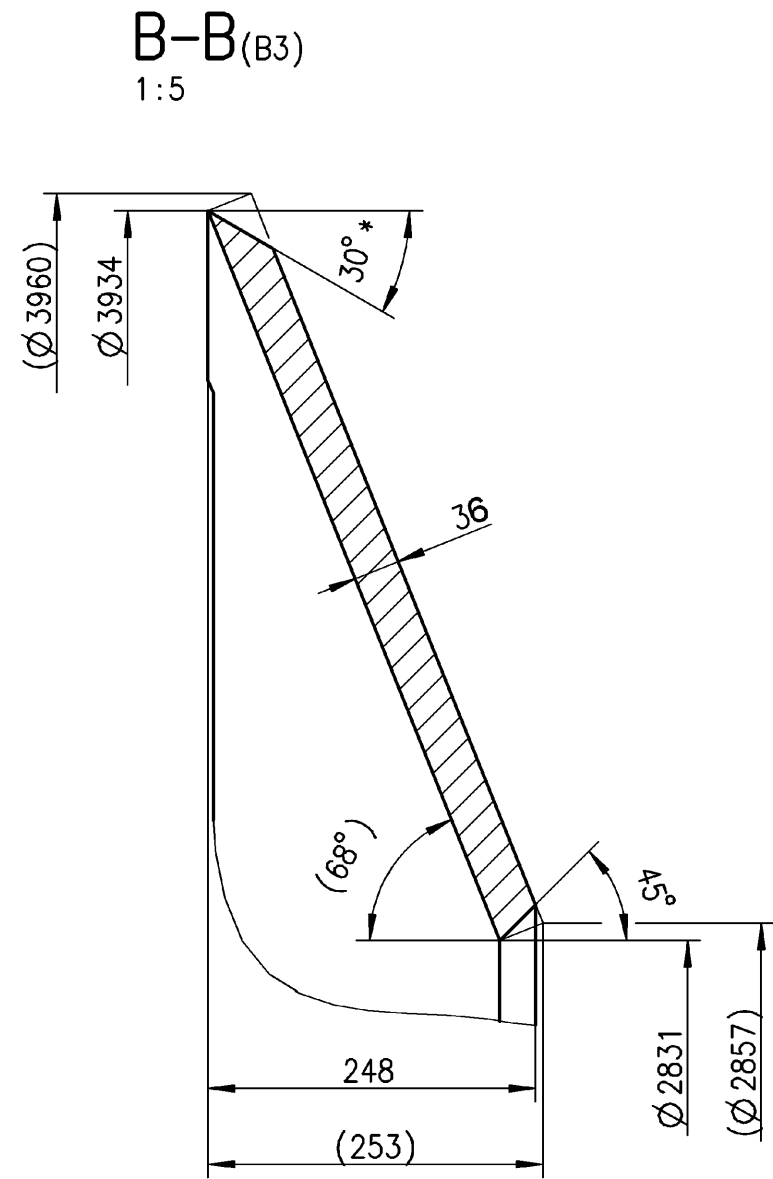
Inventory No.

DRAWING No. 2-10742-58103

FIRST ANGLE PROJECTION

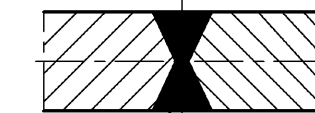
(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

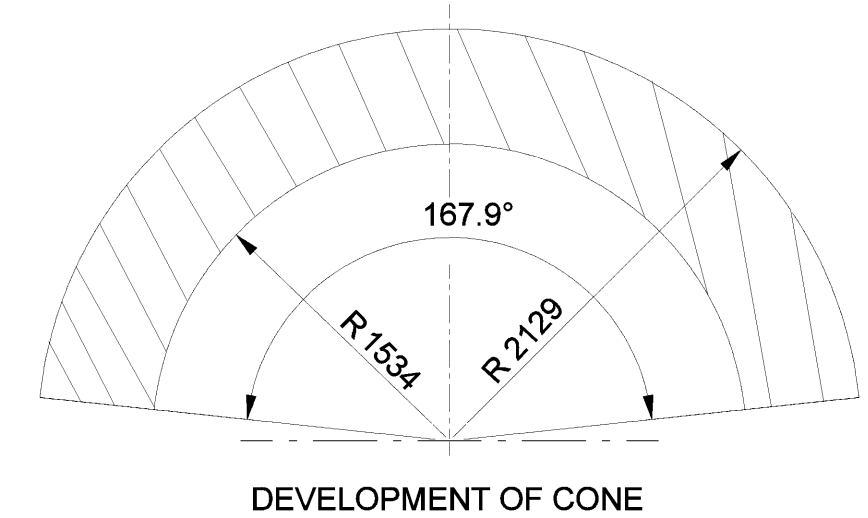
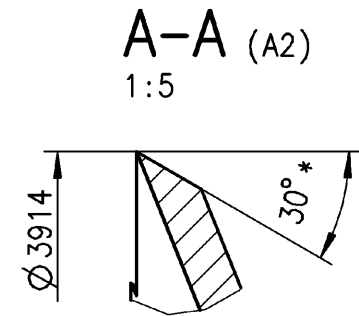


DIVIDED IN PARTS IF REQUIRED, ADDITIONAL LONGITUDINAL WELD SEAMS SHALL BE MADE AS FULL PENETRATION WELDS, PERFORMANCE DEPENDING ON WELD PROCEDURE OF SUPPLIER/SHOP.

DEFINITION : FULL PENETRATION WELD



WELD EDGE PREPARATION
ACC.TO ISO 9692-1/ISO 9692-2



TECH.REQUIREMENTS

- 1.***IF REQUIRED,THE WELD EDGE PREPARATION COULD BE DONE ACCORDING TO ISO 9692-1.
THE DRAWING REQUIREMENT (E.G WELD QUALITY, FULL PENETRATION ,BUTT WELD FILLET WELD)
MUST BE CONSIDERED.
2. WELD CLASSIFICATION GROUP ACC. TO HW0620099:BS/BK
3. WELDING TEST SCOPE ACC.TO HW0850199. CSR-1.
4. IDENTIFICATION ACCORDING TO HW 0400397.

GRADE OF UNTOL.DIM
M/CG.-C/M/F AA0230208
WELDING-A/B/C/D // AA0621104
GAS CUTTING-T3'AA0621101

GMS No./ CBOM No.
9-10742-58000

AGREED DEPT	NAME	SIGN	DATE
WT	H. VERMA	SD/-	28.07.12

STATUS
OF DRG

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

DEPT STE
CODE 4011

TITLE :

HALF CONE

STEAM TURBINE

DRN	NAME	SIGN	DATE	NO. OF VAR
CHD	POONAM	SD/-	29.11.2011	
	DINESH	SD/-	01.12.2011	
APPD	D.K.RAY	SD/-		73 74

REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
9-10742-58000	103	75 77

DRAWING NO.	ITEM No.	NO. OF SHEETS
2-10742-58103	103	22 23 24

SHEET No	No. Of SHEETS
1	2

SIZE A2

8

DRAWING

No.

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SL. NO.	CO-ORDINATES	
	X	Y
0	0	0
1	0	1502
2	150	1494
3	299	1472
4	449	1433
5	599	1377
6	749	1302
7	898	1204
8	1048	1076
9	1198	906
10	1347	664
11	1497	122
12	1558	128
13	1539	350
14	1866	381
15	1886	159
16	2086	178
17	1877	926
18	1669	1264
19	1460	1500
20	1252	1678
21	1043	1815
22	834	1920
23	626	1998
24	417	2051
25	209	2083
26	0	2093

REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED
		CHECKED			CHECKED			CHECKED			CHECKED
1			2			3			4		

GRADE OF UNTOL. DIM
M/CG.— AA0230208 m
WELDING—CLASS 'B' OF AA0621104
GAS CUTTING—TABLE 3 OF AA0621101

CBOM No. 9-10742-58000		STATUS OF DRG	
AGREED DEPT	NAME	SIGN	DATE
REV 01	DATE 25.05.13	ALTERED MONIKA	
		CHECKED DINESH	
	DATE & NO. OF SHEET UPDATED INSERT NEW SHEET.		
	AS PER C\A NO. STE-13-F0205.		

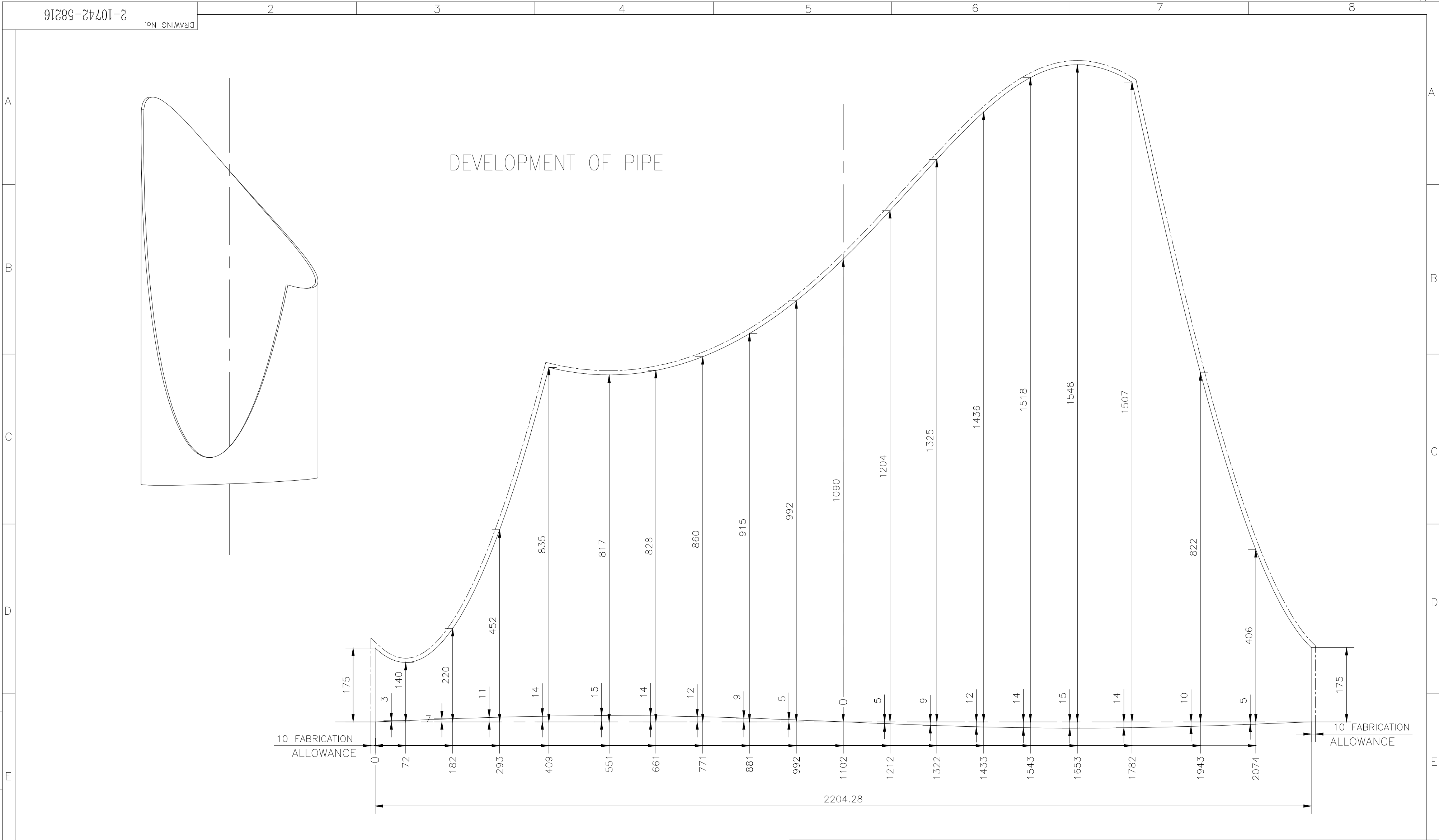
TYPE OF PRODUCT		STEAM TURBINE								
OR										
NAME OF CUSTOMER/PROJECT										
		BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR			NAME	SIGN	DATE	NO. OF VAR		
					DRN	AFZAL KHAN	sd/-		01.03.2013	
					CHD	DINESH	sd/-		02.03.2013	
					APPD	D.K.RAY	sd/-		05.03.2013	
DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM No.	NO. OF		
CODE	4011		1:15		9-10742-58000		213	ITEMS		
TITLE : HALF CONE				CARD CODE	DRAWING NO.			22	23	24
					2-10742-58213					
					SHEET No.		2	No. OF SHEETS		
								2		

SIZE A2

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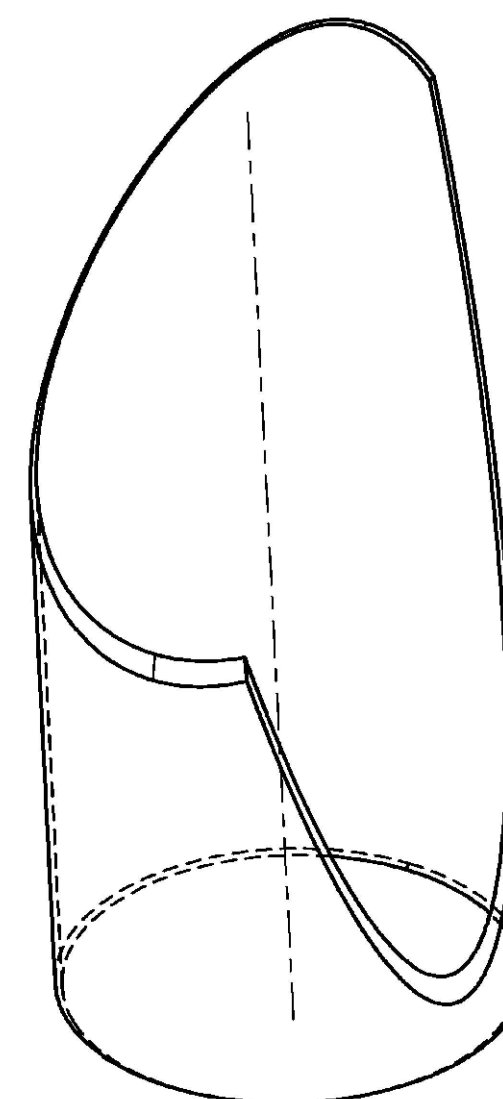
Inventory No	Sign & Date	Ref.Drawing No> DSPPG-0127034	TIN ND. PSK046L675
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				GMS No./ CBOM No. 9-10742-58000				STATUS OF DRG U		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE			
GRADE OF UNTOL.DIM				AGREED DEPT		NAME		SIGN		DATE							
M/CG.-Ø/M/F AA0230208				WT		H.VERMA		-SD/-		28.07.12							
WELDING-A/B/Ø/Ø AA0621104																	
GAS CUTTING-T3'AA0621101																	
REV		DATE		ALTERED		MONIKA											
				CHECKED		DINESH											
REV 01		DATE 18.05.13		ALTERED		MONIKA											
				CHECKED		DINESH											
				DATE UPDATED.													
				THIS DRG. SUPERSEDED THE OLD													
				DRG. UNDER THE SAME NO.													
				AS PER C/A NO. STE-13-F0201.													

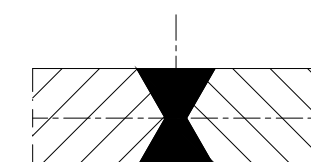
8

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50/ ALL OVER EXCEPT
OTHERWISE STATED

DETAIL: FULL PENETRATION WELD



WELD EDGE PREPARATION
ACC. TO ISO 9692-1/ISO 9692-2

TECHNICAL REQUIREMENTS:—

1. WELD CLASSIFICATION GROUP ACCORDING TO HW0620099:BS/BK.
2. WELDING TEST SCOPE ACCORDING TO HW0850199. CSR-1.
3. IDENTIFICATION ACCORDING TO HW0400397

VIEW Z

DIVIDED IN PARTS IF REQUIRED.
ADDITIONAL LONGITUDINAL WELD SEAMS SHALL BE MADE AS FULL PENETRATION WELD.
PERFORMANCE DEPENDING ON WELD PROCEDURE OF SUPPLIER/SHOP.

GRADE OF UNTOL. DIM
M/CG.— AA0230208 m
WELDING—CLASS 'B' OF AA0621104
GAS CUTTING—TABLE 3 OF AA0621104

CBOM No. 9 10742 58000			STATUS OF DRG
AGREED DEPT	NAME	SIGN	DATE
WT	H. VERMA	sd/-	28.07.12
REV	DATE	ALTERED	MONIKA DINESH
01	18.05.13	CHECKED	

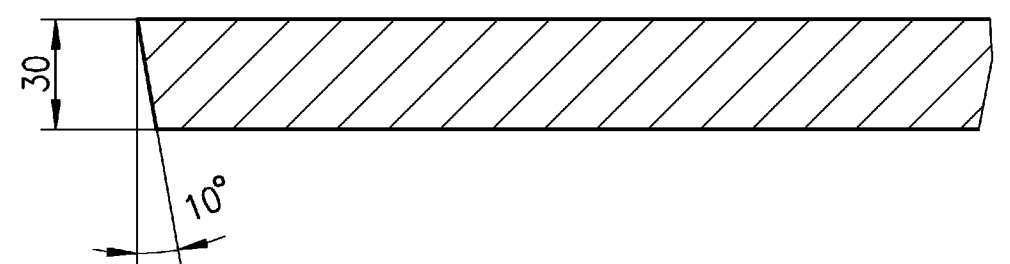
TYPE OF PRODUCT	STEAM TURBINE
OR	
NAME OF CUSTOMER/PROJECT	

		BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR			NAME		SIGN		DATE		NO. OF VAR				
					DRN		POONAM		sd/-				02.12.2011		
					CHD		DINESH		sd/-				04.12.2011		
					APPD		D.K.RAY		sd/-				28.07.12		
DEPT STE			SCALE		WEIGHT (KG)		REF. TO ASSY. DRG.				ITEM No.		NO. OF		
CODE 4011			1:10		156.00		9-10742-58000				217		ITEMS		
TITLE :					CARD CODE		DRAWING NO.								
PIPE							2-10742-58217							23 24	
							SHEET No. 1				No. OF SHEETS 2				

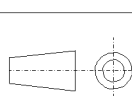
SIZE A2

DRAWING No.

50 ✓ ALL OVER EXCEPT
OTHERWISE STATED



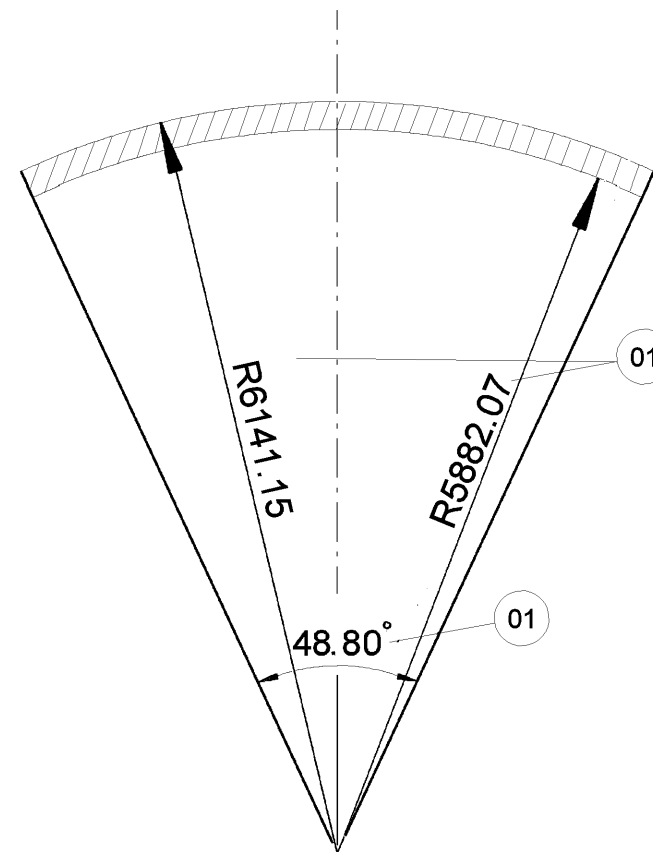
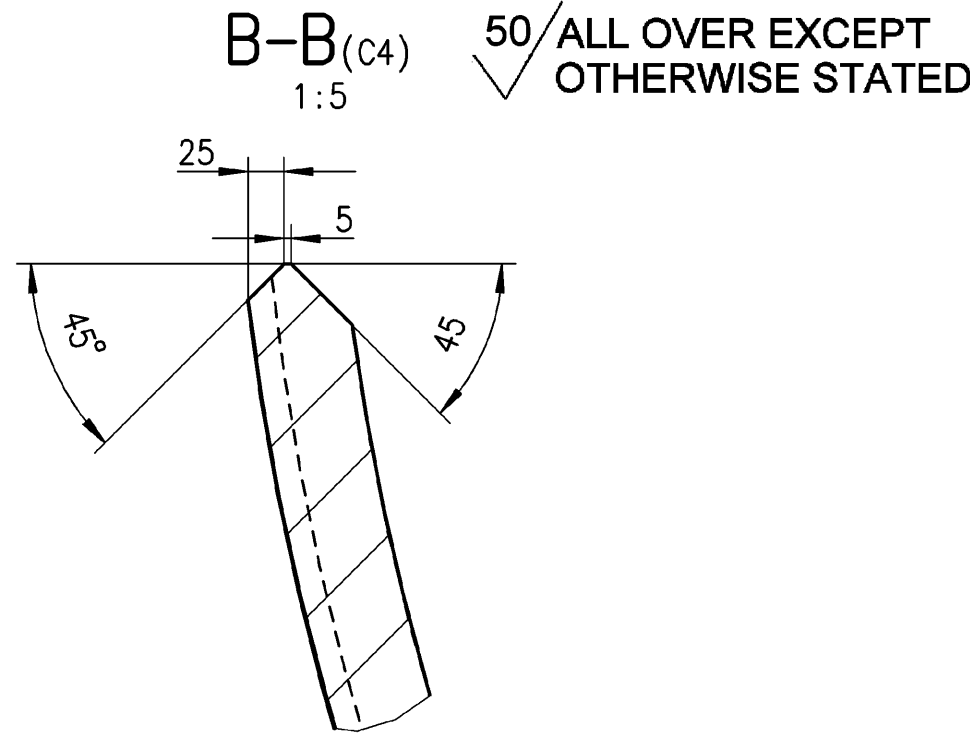
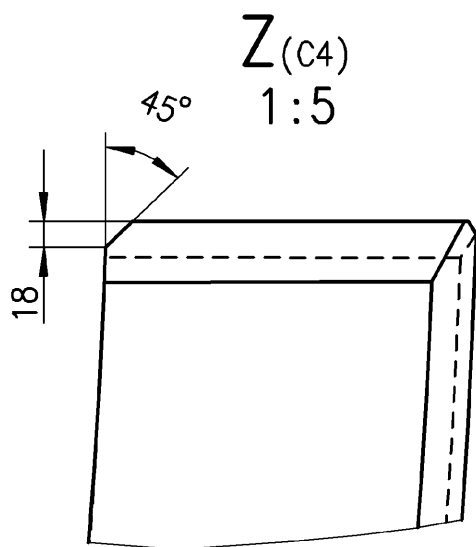
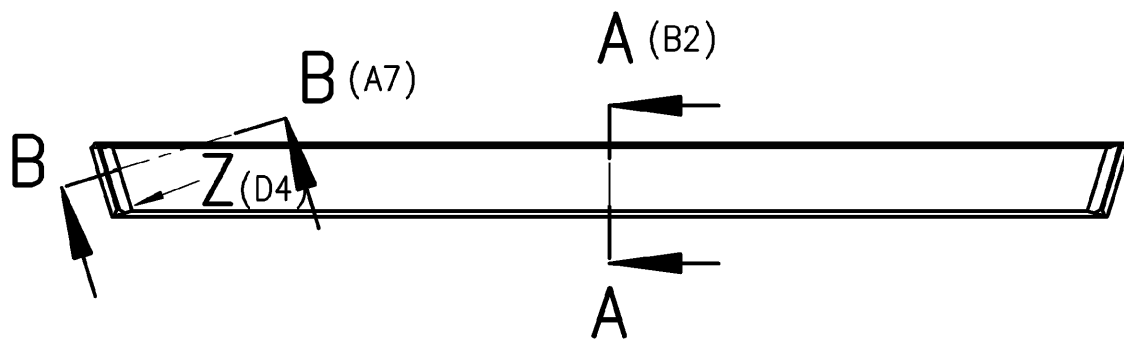
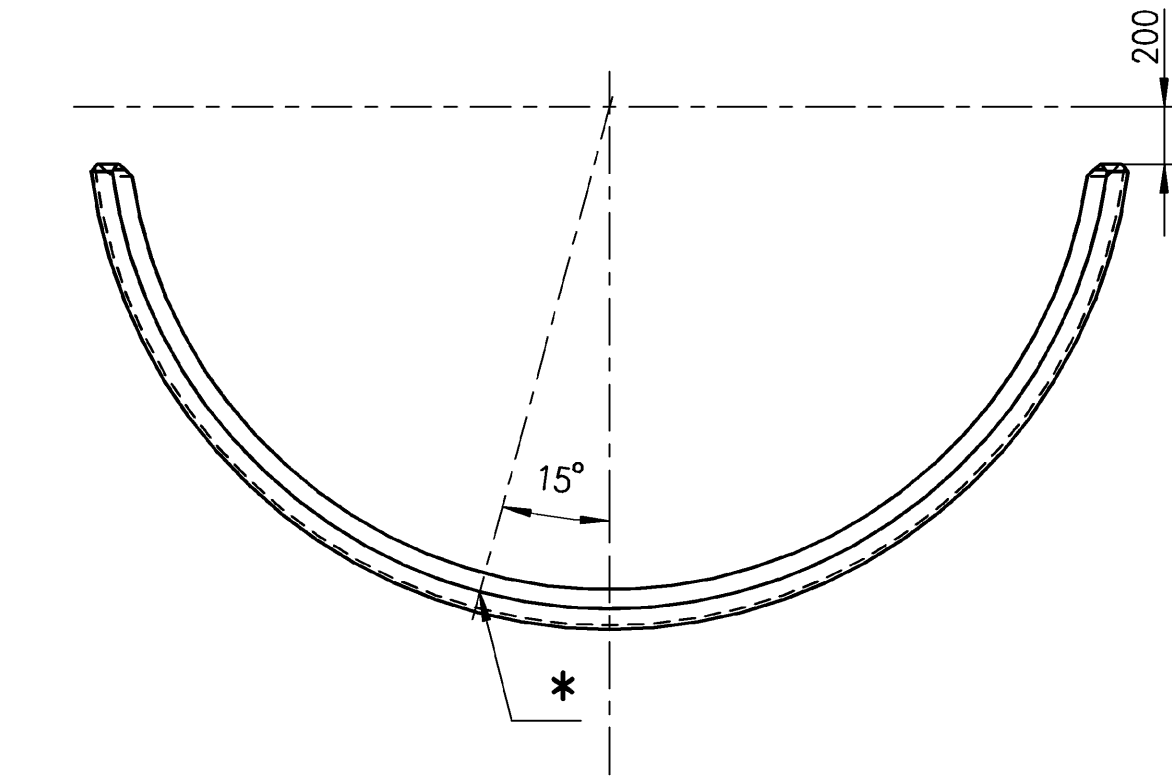
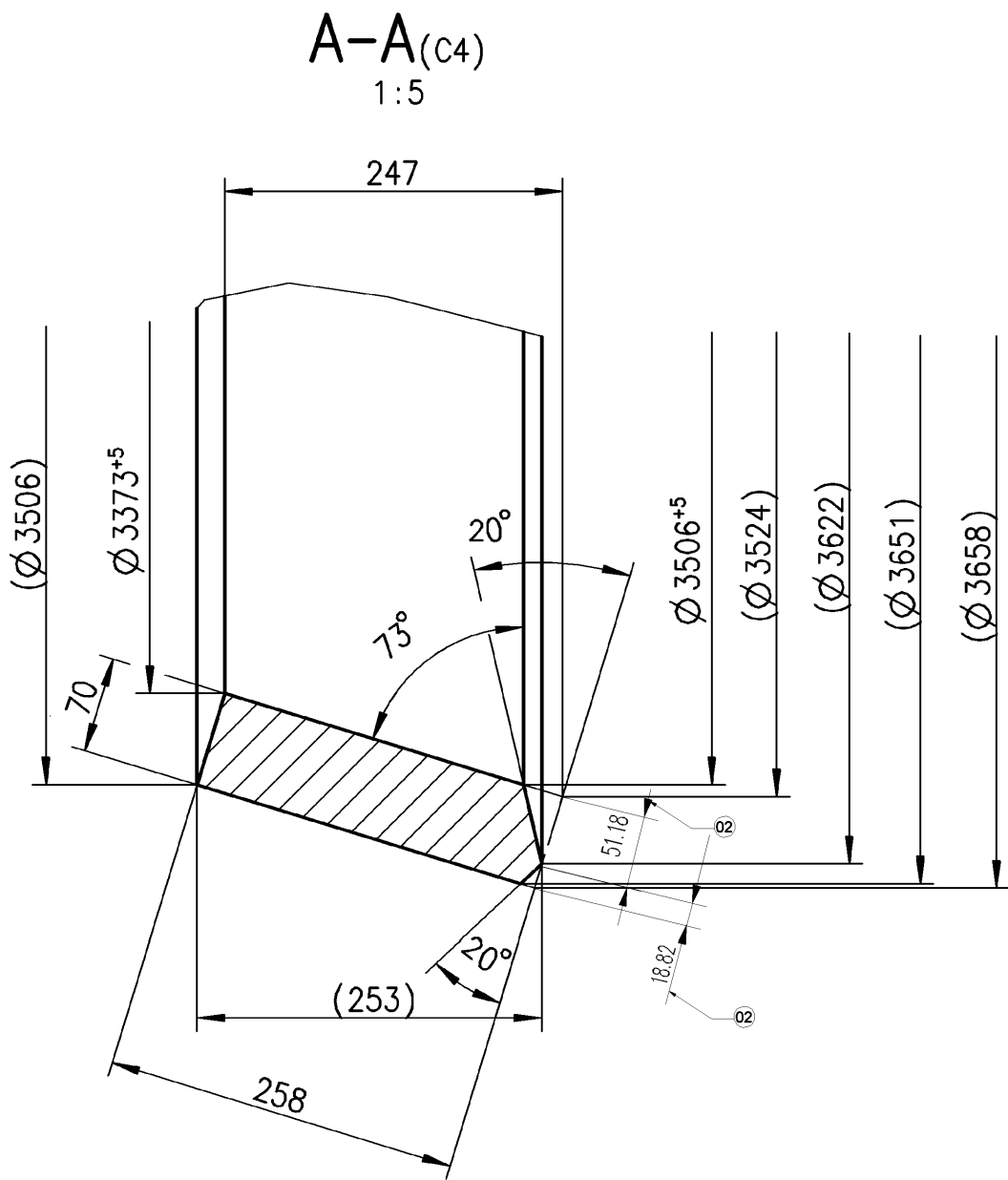
1. WELD CLASSIFICATION GROUP ACC. TO HW0620099:BS/BK
2. WELDING TEST SCOPE ACC.TO HW0850199. CSR-1.
3. IDENTIFICATION ACCORDING TO HW 0400397.

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE				
BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR				DRN	NAME POONAM	SIGN -SD/-	DATE 1-12-2011	NO. OF VAR — 73 74
				CHD	DINESH	-SD/-	2-12-2011	
				APPD	D.K.RAY	-SD/-		
DEPT	STE		SCALE 1:5	WEIGHT (KG) 183	REF. TO ASSY. DRG. 9-10742-58000		ITEM No. 242	NO. OF ITEMS 75 77
CODE	4011							
TITLE : PLATE				CARD CODE 7	DRAWING NO. 2-10742-58242			22 23 24
					SHEET No. 1 No. OF SHEETS 1			

SIZE A2

Inventory No.

DRAWING No. 2-10762-58101



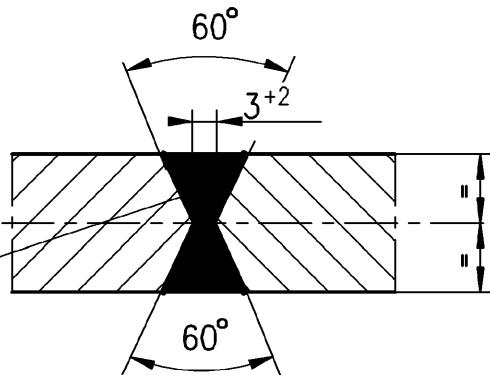
DEVELOPMENT OF TAPER

* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP OVERLAPPIINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

NOT TO SCALE

ALTERNATIVE VALUES IN ACC. TO:
ISO9692-1/9692-2
MODIFIED VALUES SHALL BE DOCUMENTED!



GMS No./ CBOM No. 0-10762-58000				STATUS OF DRG	
AGREED	DEPT	NAME	SIGN	DATE	
WT	V.KUMAR	SD/-	10.12.11		
GRADE OF UNTOL.DIM					
M/CG.-C/M/F AA0230208					
WELDING-A/B/C/D // AA0621104					
GAS CUTTING-T3/AA0621101					
REV 03	DATE 27.4.17	ALTERED CHECKED	SD/- MANOJ SD/- DINESH	REV 02	DATE 04.03.15
ALTERED CHECKED	ANOOP DINESH	DATE	ALTERED CHECKED	MONIKA DINESH	
CHANGES MADE AS PER CHANGE ADVICE.				IN SECTION A-A DIM.18.82 & DIM.51.18 ADDED IN DRG.	
AS PER C/A NO. STE-17-F00116.				AS PER C/A NO. STE-15-F0012.	
REV 01	DATE 12.06.13	ALTERED CHECKED	MONIKA DINESH	DEVELOPMENT LENGTH CHANGED.	
				AS PER C/A NO. STE-13-F0218.	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE			
BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR				DRN CHD APPD	NAME POONAM DINESH A.SHAH	SIGN SD/- SD/- SD/-	DATE 30.10.2011 03.11.2011 31.12.2011
DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO. OF	NO. OF	VAR
CODE	4011	1:25	687	0-10762-58000	101,201	73 74	
TITLE : TAPER				CARD CODE	DRAWING NO. 2-10762-58101	22 23 24	
				SHEET No.	01	No. OF SHEETS	01

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TIN NO.
PSK0400U512

Ref Drawing No>
DSPPG-0101596

Sign & Date

Inventory No.

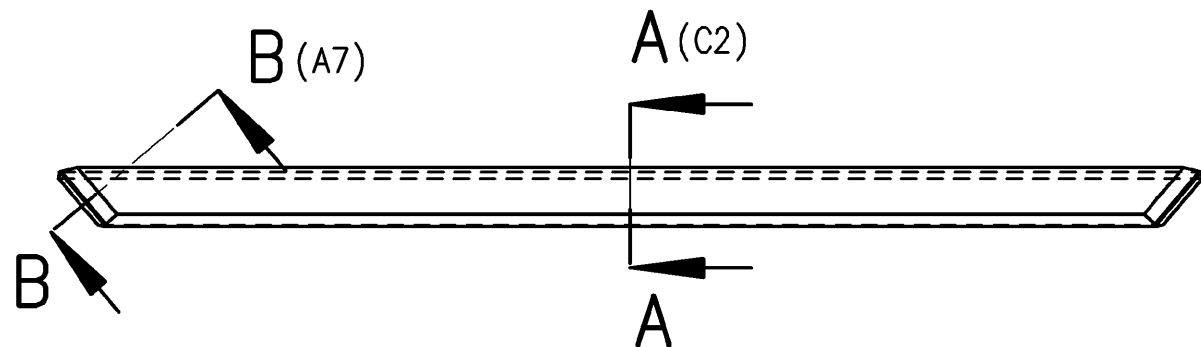
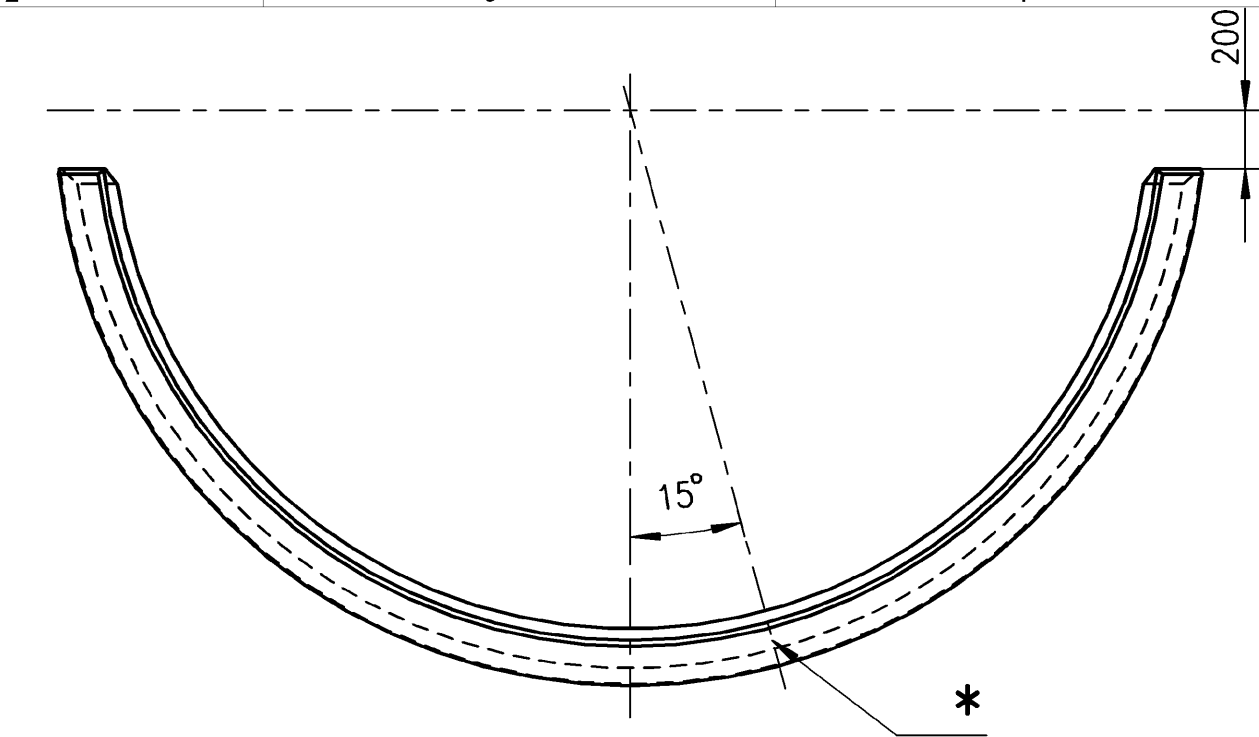
2-10762-58102

DRAWING No.

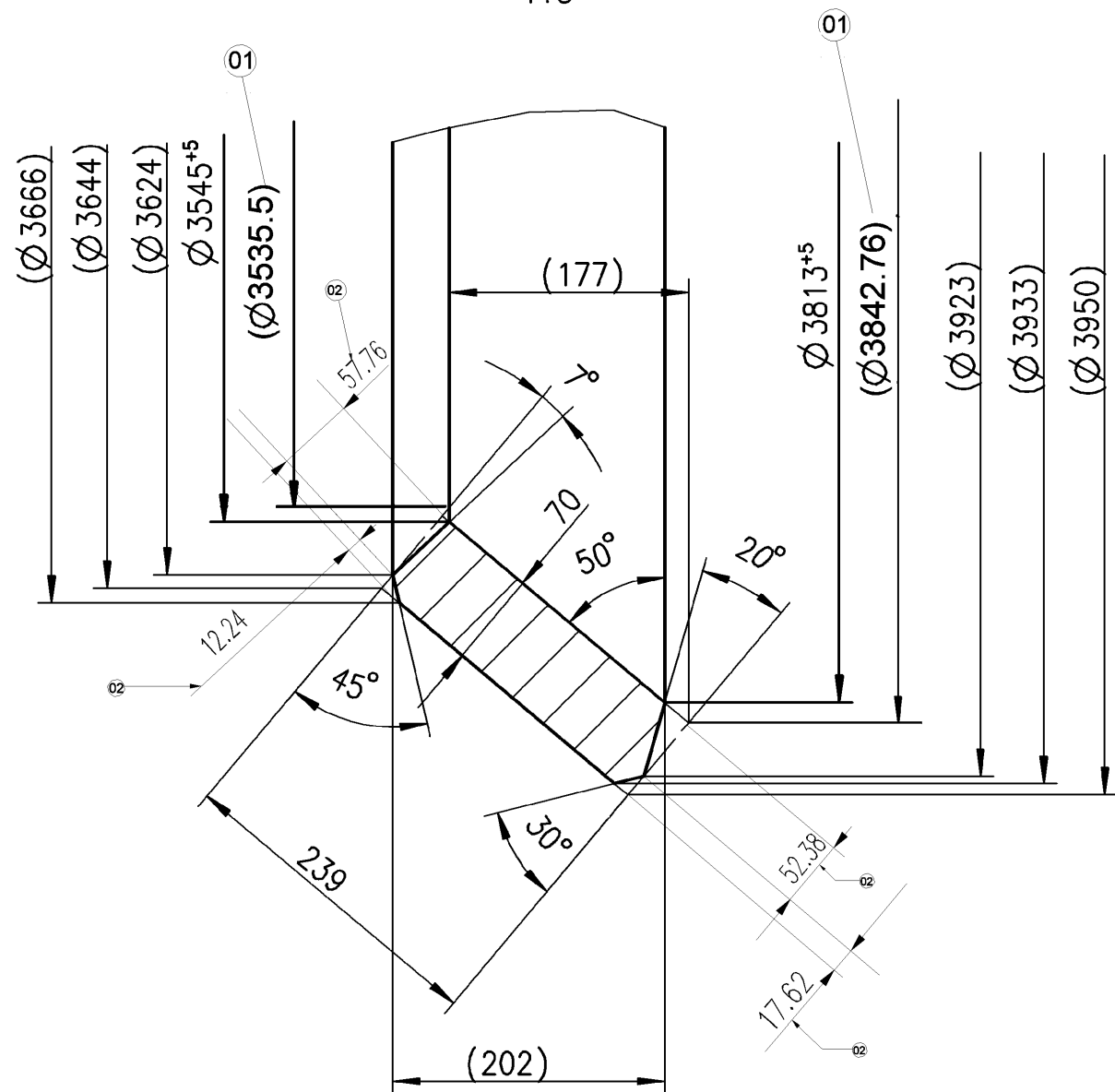
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)



A-A (C4)
1:5

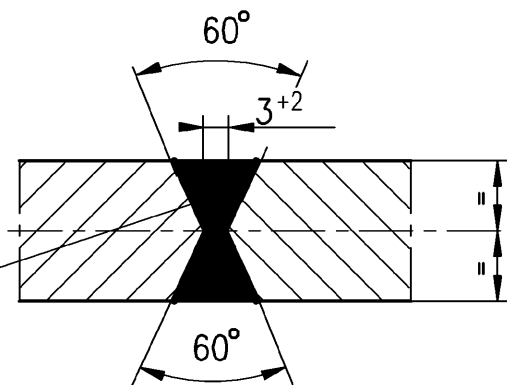


* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP
OVERLAPPINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

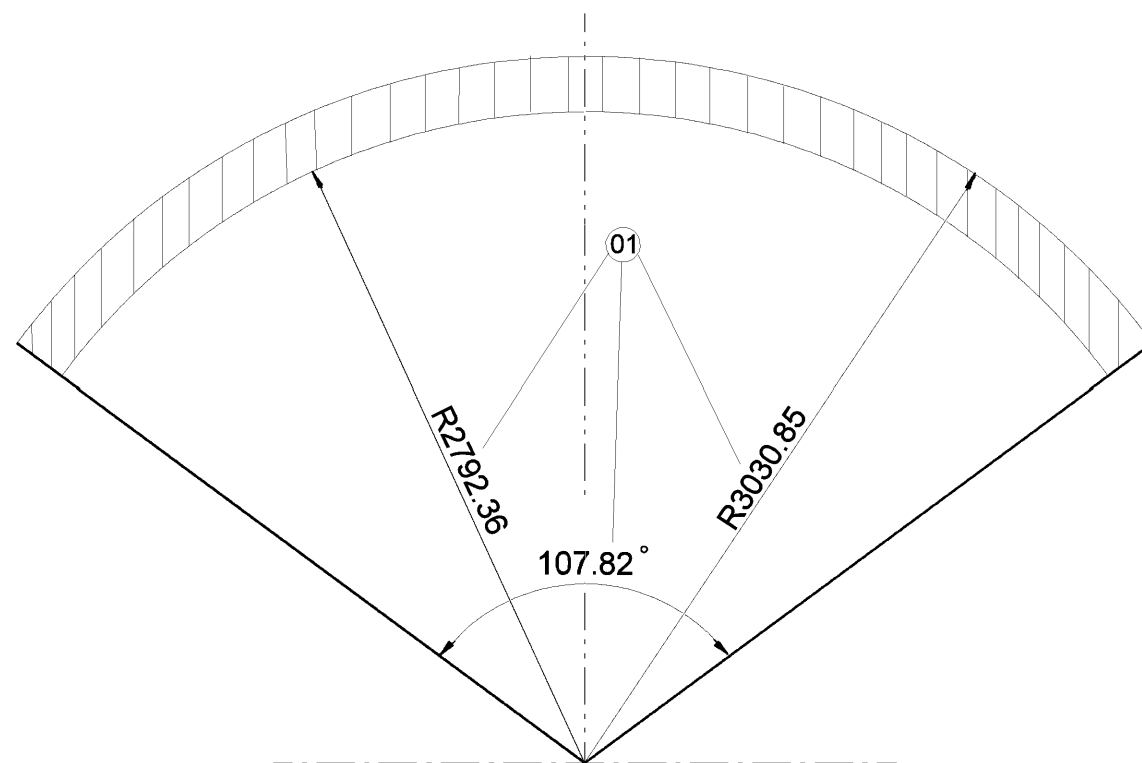
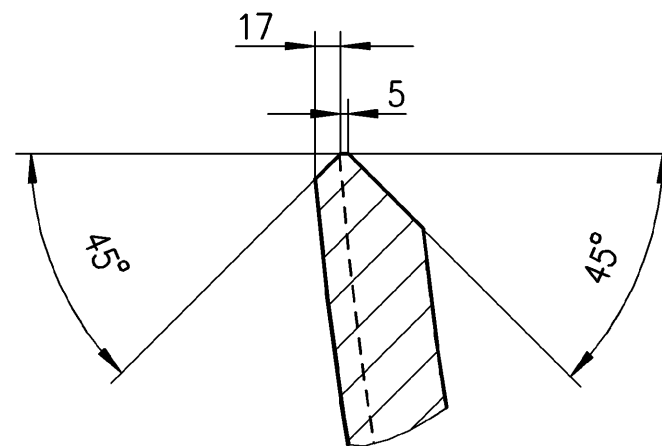
NOT TO SCALE

ALTERNATIVE VALUES IN ACC. TO:
ISO9692-1/9692-2.
MODIFIED VALUES SHALL BE DOCUMENTED!



B-B (C3)
1:5

50/ ALL OVER EXCEPT
OTHERWISE STATED



DEVELOPMENT OF TAPER

TECHNICAL REQUIREMENTS:-

- 1) WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 : BS/BK
- 2) WELDING TEST SCOPE ACCORDING TO HW0850199: CSR-1
- 3) IDENTIFICATION ACCORDING TO HW0400397

GRADE OF UNTOL.DIM
M/CG.-C/M/F AA0230208
WELDING-A/B/C/D // AA0621104
GAS CUTTING-T3'AA0621101

GMS No./ CBOM No.
0-10762-58000
AGREED DEPT NAME SIGN DATE
WT V.KUMAR SD/- 10.12.11

STATUS
OF DRG

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

STEAM TURBINE



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

NAME	SIGN	DATE	NO. OF
POONAM	SD/-	30.10.2011	VAR
DINESH	SD/-	03.11.2011	
A.SHAH	SD/-	31.12.2011	73 74

DEPT

STE

SCALE

1:25

WEIGHT (KG)

668

REF. TO ASSY. DRG.

0-10762-58000

ITEM NO. OF

102,202 75 77

TITLE :

TAPER

CARD CODE

DRAWING NO.

2-10762-58102

22 23 24

SHEET No.-01

No. OF SHEETS-01

SIZE A2

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TIN NO.
PSK040U513

Ref Drawing No>
DSPPG-0101597

Sign & Date

Inventory No.

2-10762-58103

DRAWING No.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

A

B

C

D

E

F

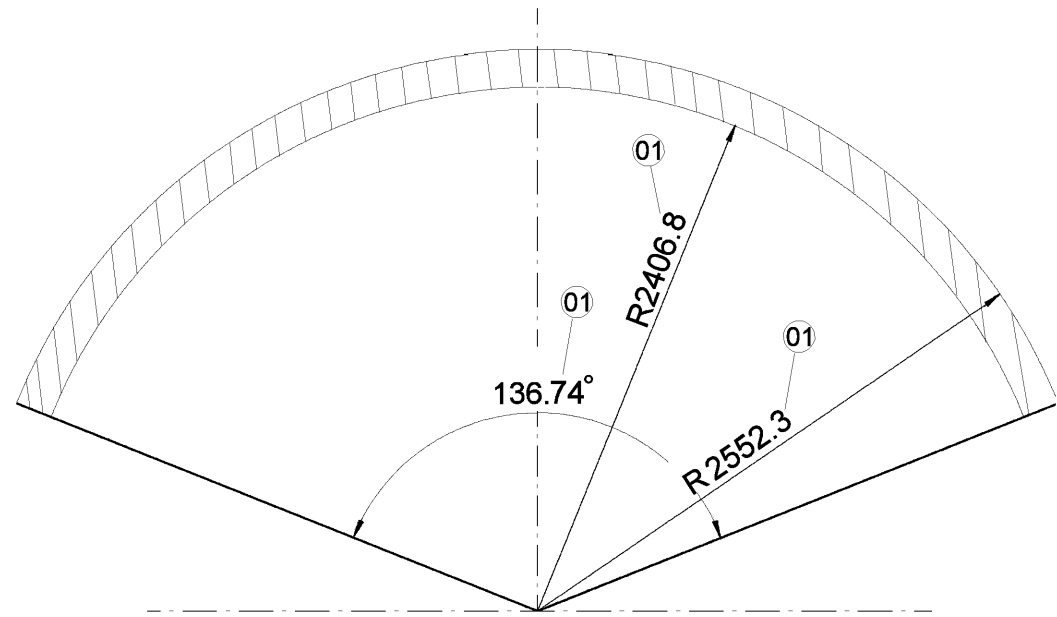
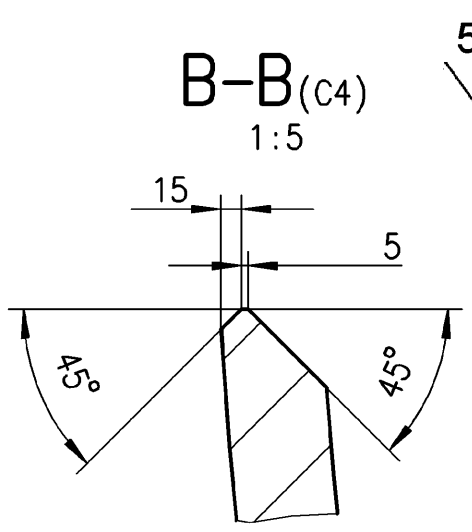
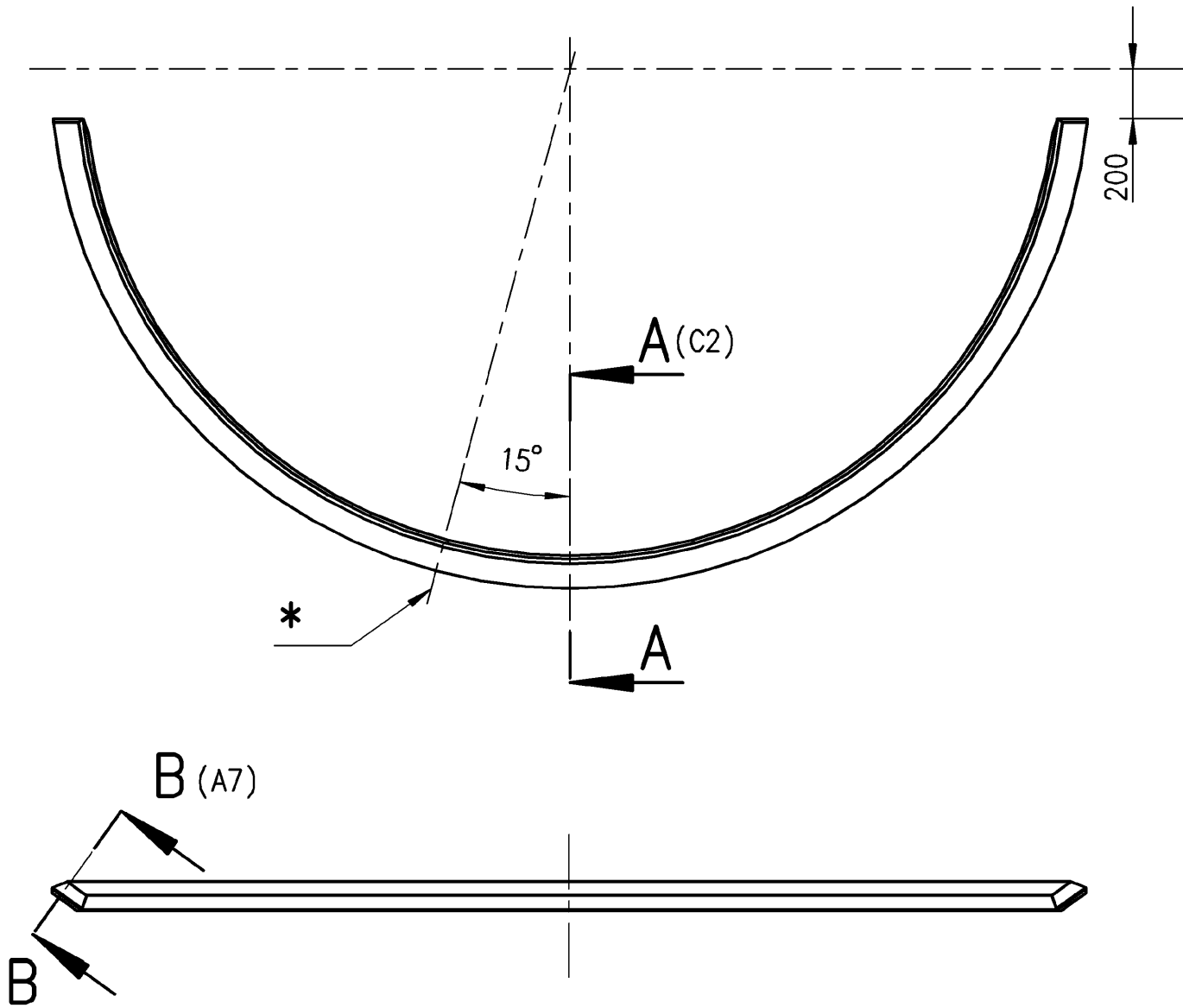
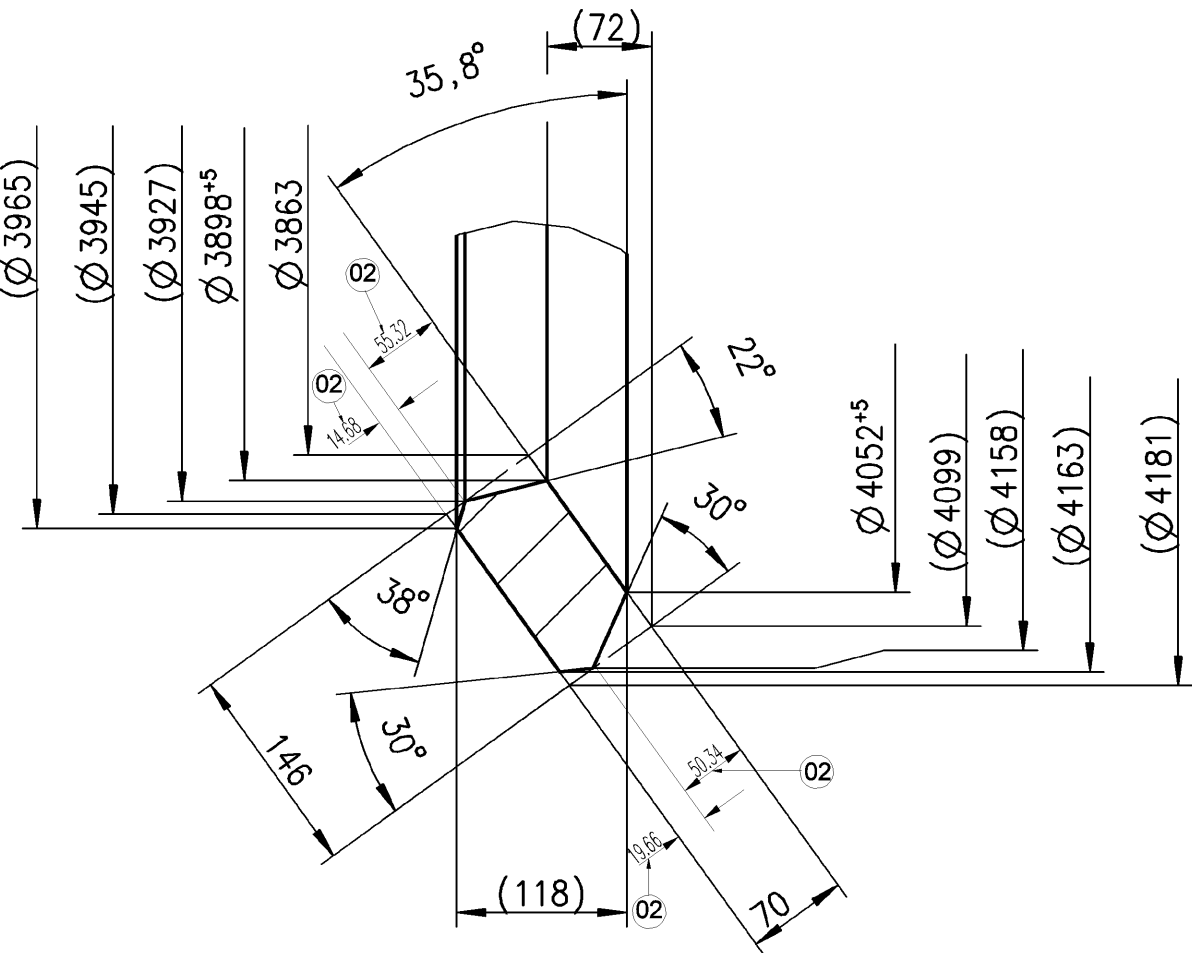
A

B

C

D

E



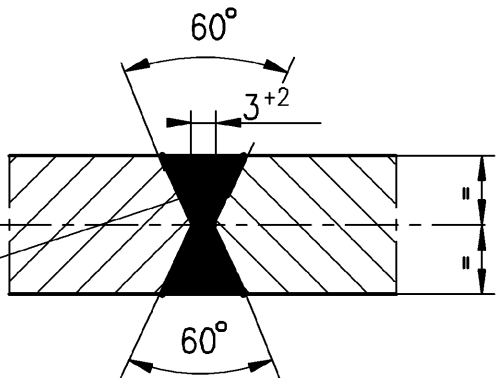
DEVELOPMENT OF TAPER

* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP
OVERLAPINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

NOT TO SCALE

ALTERNATIVE VALUES IN ACC. TO:
ISO 9692-1/9692-2.
MODIFIED VALUES SHALL BE DOCUMENTED!



GRADE OF UNTOL.DIM			
M/CG.-C/M/F AA0230208			
WELDING-A/B/C/D // AA0621104			
GAS CUTTING-T3'AA0621101			

REV	DATE	ALTERED	ANOP
02	05.03.15	CHECKED	DINESH
IN SECTION A-A DIM.19.66 , DIM.50.34 & DIM.14.68, DIM.55.32 ADDED IN DRG. AS PER C/A NO. STE-15-F0012.			

GMS No./ CBQM No.	STATUS OF DRG
0-10762-58000	U

AGREED DEPT	NAME	SIGN	DATE
WT	V.KUMAR	SD/-	10.12.11

REV	DATE	ALTERED	MONIKA
01	12.06.13	CHECKED	DINESH

REV	DATE	ALTERED	MONIKA
01	12.06.13	CHECKED	DINESH

REV	DATE	ALTERED	MONIKA
01	12.06.13	CHECKED	DINESH

REV	DATE	ALTERED	MONIKA
01	12.06.13	CHECKED	DINESH

REV	DATE	ALTERED	MONIKA
01	12.06.13	CHECKED	DINESH

TYPE OF PRODUCT
OR

NAME OF CUSTOMER/PROJECT

STEAM TURBINE



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

DEPT STE

CODE 4011

TITLE :

TAPER

SCALE 1:25

WEIGHT (KG) 400

NAME	SIGN	DATE	NO. OF
POONAM	SD/-	03.11.2011	VAR
CHD DINESH	SD/-	04.11.2011	
APPD A.SHAH	SD/-	31.12.2011	73 74

REF. TO ASSY. DRG.	ITEM NO. OF
0-10762-58000	ITEMS
103,203	75 77

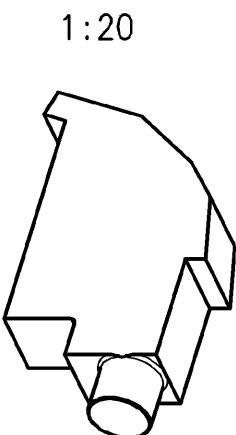
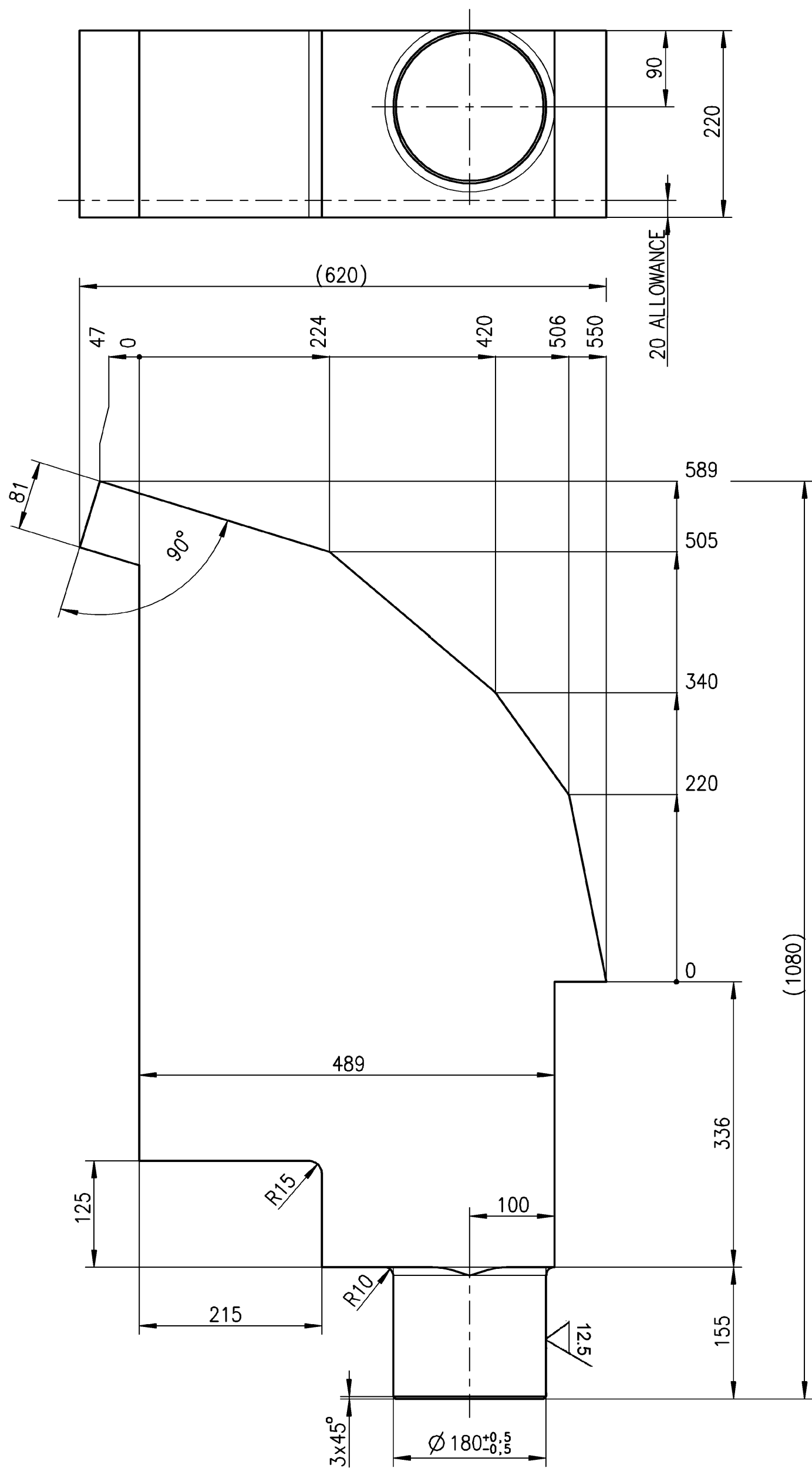
DRAWING NO.	2-10762-58103
CARD CODE	7

SHEET No.- 01	No. OF SHEETS - 01
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SIZE A2

DRAWING No.

✓ GAS CUT ALL OVER EXCEPT
OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

- 1) FORGING DRG NO.21076258999: VAR.01 .MTL.SPEC-AA19341.
MAT. CODE-W95310762060
- 2) IDENTIFICATION ACCORDING TO HW0400397

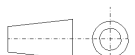
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Inventory No.	Sign & Date	Ref. Drawing No>	TIN NO.
		DSPPG-0101598	PSK040U1514

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED
1			2			3			4		

GRADE OF UNTOL.DIM			
M/CG.-C/M/F AA0230208			
WELDING-A/B/C/D		AA0621104	
GAS CUTTING-T3/AA0621101			
REV	DATE	ALTERED	SD/- MANOJ
02	25.1.17	CHECKED	SD/- DINESH
MACHINING SYMBOL ADDED.			
AS PER C/A NO. STE-17-F0004			

-GMS No./ CBOM No.			STATUS OF DRG	
0-10762-58000			U	
AGREED DEPT	NAME	SIGN	DATE	
WT	V.KUMAR	SD/-	10.12.2011	
REV	DATE	ALTERED	MONIKA	
01	05.08.13	CHECKED	DINESH	
MACHINING SYMBOL TO BE REMOVED.				
AS PER C/A NO. STE-13-F0276.				
5			6	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE				
 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR				DRN	NAME	SIGN	DATE	NO. OF VAR
				CHD	POONAM	SD/-	30.10.2011	
					DINESH	SD/-	03.11.2011	
				APPD	A.SHAH	SD/-	31.12.2011	
DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM No.	NO. OF
CODE	4011		1:10	679	0-10762-58000		104	ITEMS
TITLE :				CARD CODE	DRAWING NO.			
PLATE					2-10762-58104			22 23 24
					SHEET No.- 01			No. OF SHEETS-01

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Inventory No.
Sign & Date
Ref Drawing No>
TIN NO.

DSPPG-0101598

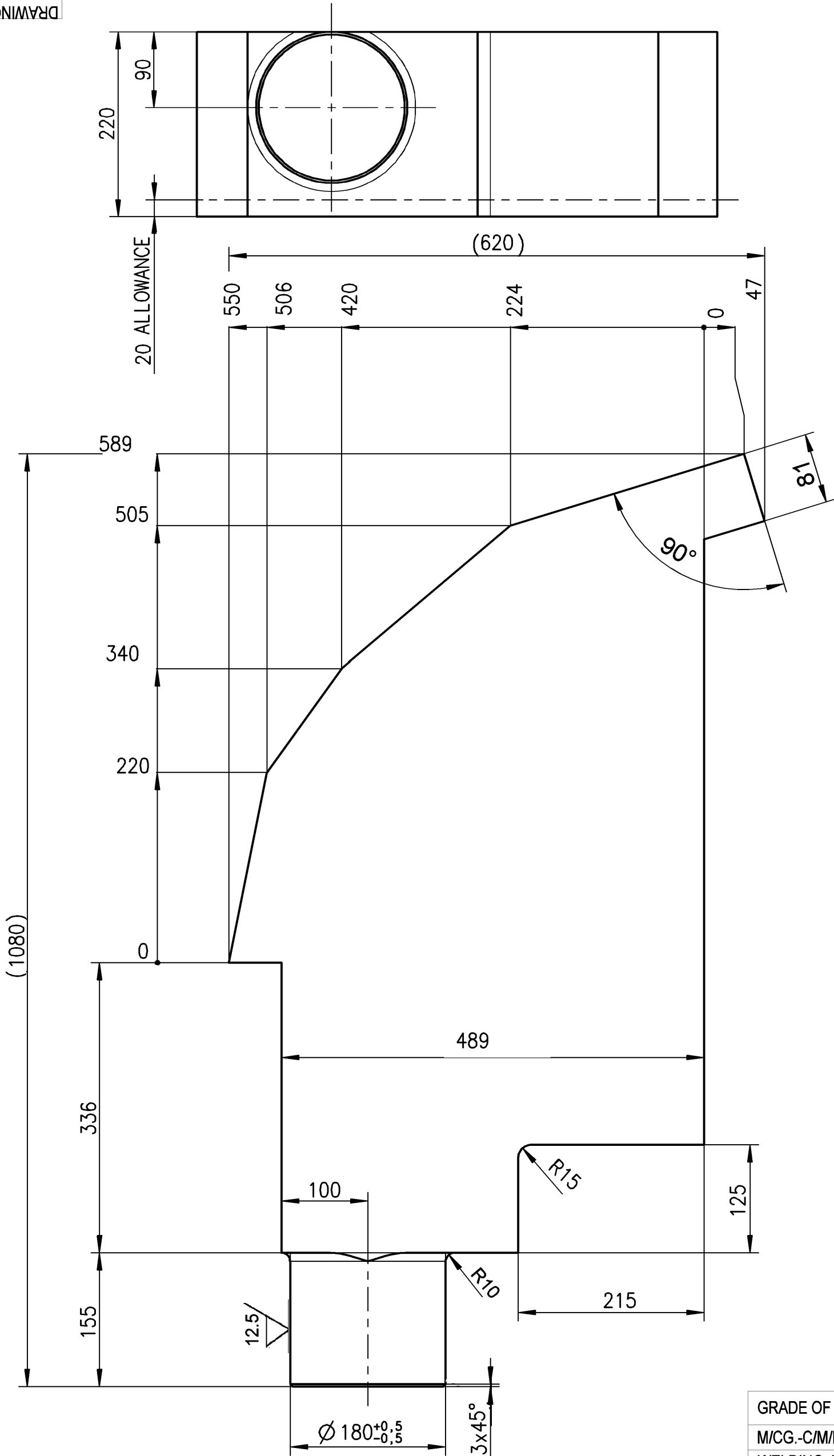
PSK0400515

DRAWING No 2-10762-58105

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)



✓ GAS CUT ALL OVER EXCEPT OTHERWISE STATED

1:20

TECHNICAL REQUIREMENTS:-

- 1) FORGING DRG NO.21076258999: VAR.02 .MTL.SPEC-AA19341. MAT. CODE-W95310762078
- 2) IDENTIFICATION ACCORDING TO HW0400397

GRADE OF UNTOL.DIM			
M/CG.-C/M/F	AA0230208		
WELDING-A/B/C/D	AA0621104		
GAS CUTTING-T3'AA0621101			
REV 02	DATE 25.1.17	ALTERED CHECKED	SD/- MANOJ SD/- DINESH
MACHINING SYMBOL ADDED.			
AS PER C/A NO. STE-17-F0004			

GMS No./ CBOM No.				STATUS OF DRG	
0-10762-58000	NAME	SIGN	DATE		
WT	V.KUMAR	SD/-	10.12.2011		
REV 01	DATE 05.08.13	ALTERED CHECKED	MONIKA DINESH		
MACHINING SYMBOL TO BE REMOVED.					
AS PER C/A NO. STE-13-F0276.					

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE			
BHARAT HEAVY ELECTRICALS LTD.				NAME	SIGN	DATE	NO. OF VAR
RANIPUR, HARDWAR				POONAM	SD/-	30.10.2011	
				DINESH	SD/-	03.11.2011	
				A.SHAH	SD/-	31.12.2011	73 74
DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM NO.	NO. OF ITEMS
CODE	4011	1:10	679	0-10762-58000		105	75 77
TITLE : PLATE				CARD CODE	DRAWING NO.		
				7	2-10762-58105		
					22 23 24		
					SHEET No.-1		
					No. OF SHEETS-1		

SIZE A2

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TIN No.
PSK040U516

Ref.Drawing No>
DSPPG-0101599

Sign & Date

Inventory No.

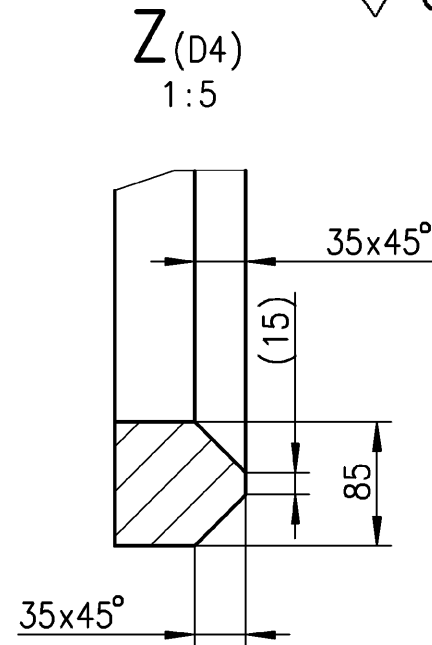
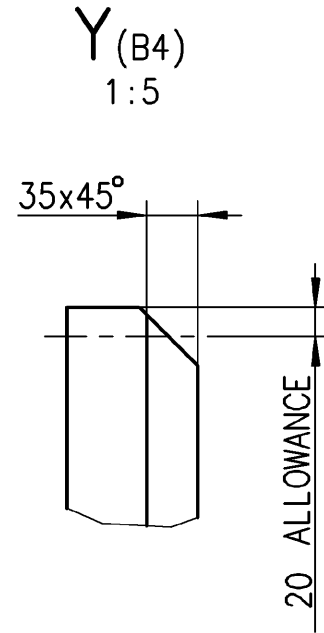
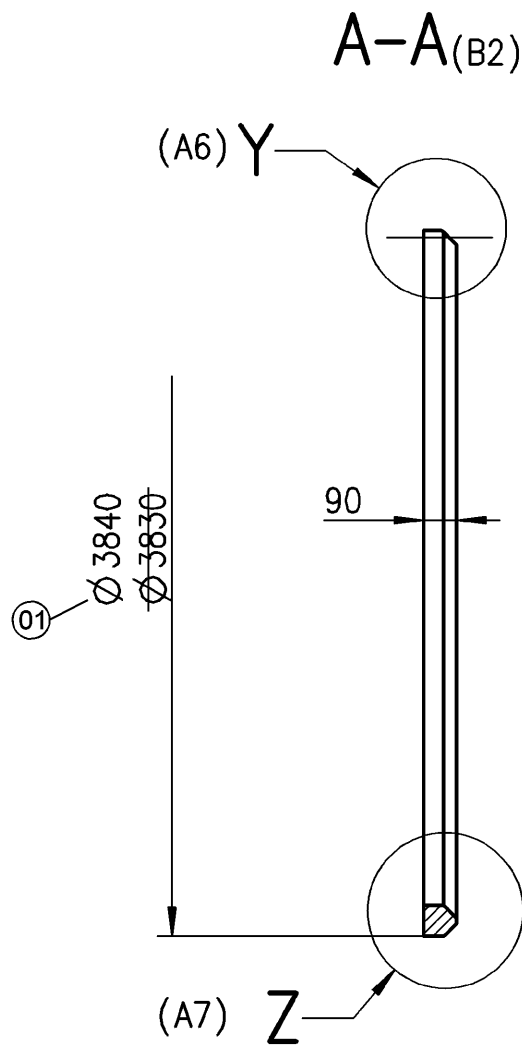
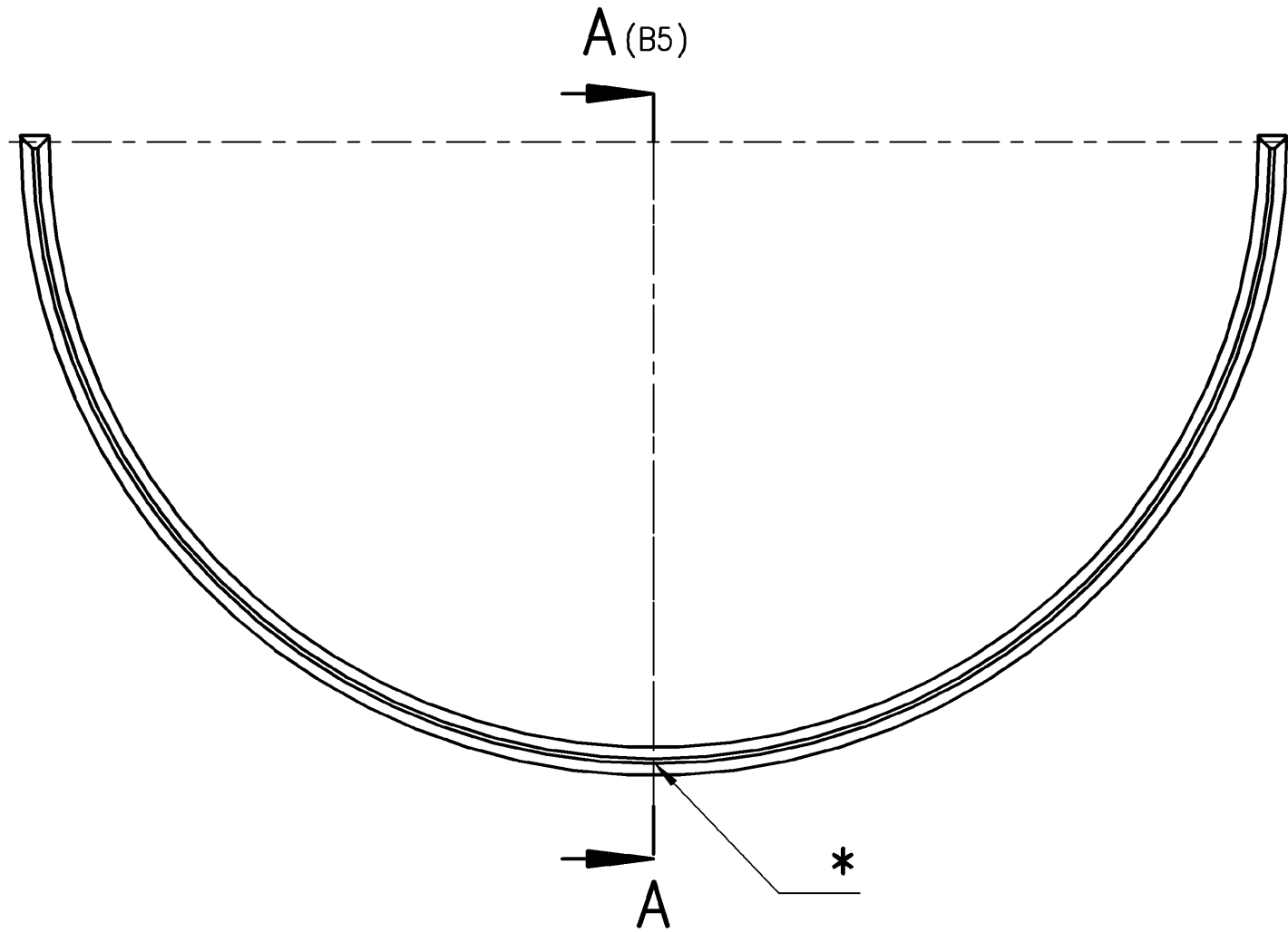
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

2-10762-58107
DRAWING No.

50/ ALL OVER EXCEPT OTHERWISE STATED

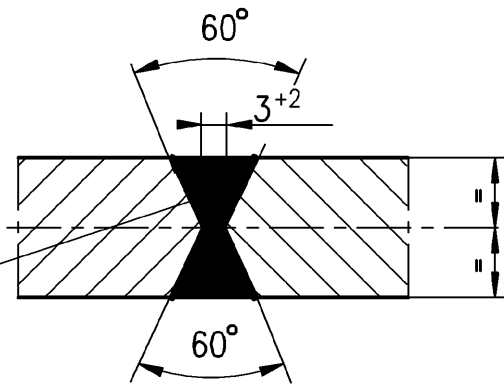


* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP OVERLAPPINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

NOT TO SCALE

ALTERNATIVE VALUES IN ACC. TO:
ISO9692-1/9692-2.
MODIFIED VALUES SHALL BE DOCUMENTED!



TECHNICAL REQUIREMENTS:-

- 1) WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 :BS/BK
- 2) WELDING TEST SCOPE ACCORDING TO HW0850199: CSR-1
- 3) IDENTIFICATION ACCORDING TO HW0400397

GMS No./ CBOM No. 0-10762-58000										STATUS OF DRG		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT																			
AGREED DEPT WT										NAME V.KUMAR		SIGN SD/-		DATE 10.12.2011		BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR															
GRADE OF UNTOL.DIM M/CG -C/M/F AA0230208										WELDING-A/B/C/D // AA0621104		GAS CUTTING-T3'AA0621101		REV 01		DATE 22.08.13		ALTERED CHECKED		MONIKA RITESH		DRN CHD		NAME POONAM		SIGN SD/-		DATE 30.10.2011		NO. OF VAR	
REV 01										DATE 22.08.13		ALTERED CHECKED		MONIKA RITESH		DEPT STE		SCALE 1:20		WEIGHT (KG) 298		REF. TO ASSY. DRG. 0-10762-58000		ITEM No.		NO. OF ITEMS					
AS PER C/A NO. STE-13-F0292.										TITLE : RING		CARD CODE		DRAWING NO. 2-10762-58107		SHEET No-1		No. OF SHEETS-1		22 23 24		75 77									

SIZE A2

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Inventory No.
Sign & Date
Ref Drawing No>
TIN No.

DSPPG-0101602
PSK040U520

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED

GRADE OF UNTOL.DIM		
M/CG.-C/M/F	AA0230208	
WELDING-A/B/C/D	AA0621104	
GAS CUTTING-T3'AA0621101		

GMS No./ CBOM No. 0-10762-58000		STATUS OF DRG	
AGREED DEPT	NAME	SIGN	DATE
WT	V.KUMAR	SD/-	10.12.2011
REV	DATE	ALTERED CHECKED	

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE				
	BHARAT HEAVY ELECTRICALS LTD.			DRN	NAME	SIGN	DATE	NO. OF VAR
	RANIPUR, HARDWAR			CHD	POONAM	SD/-	30.10.2011	
				APPD	DINESH	SD/-	03.11.2011	
					A.SHAH	SD/-	31.12.2011	73 74
DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM No.	NO. OF ITEMS
CODE	4011		1:5	69.5	0-10762-58000		113	
TITLE :				CARD CODE	DRAWING NO.			
PLATE					2-10762-58113			22 23 24
				SHEET No. -1		No. OF SHEETS -1		

SIZE A2

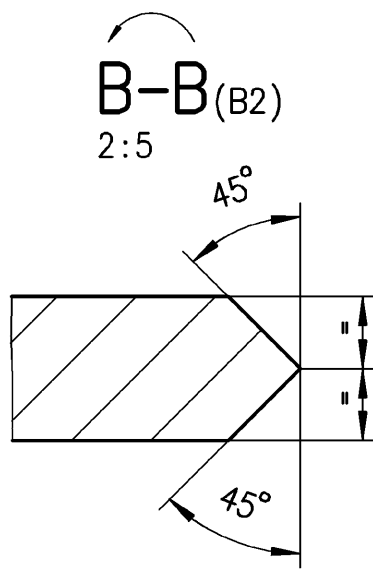
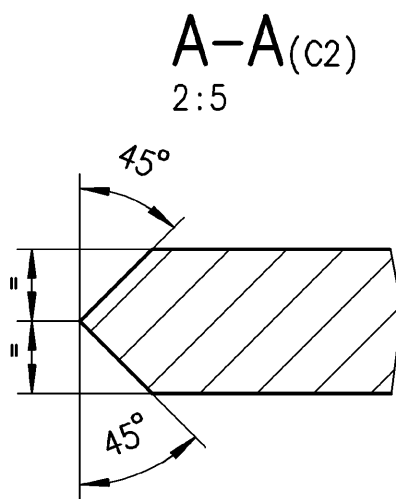
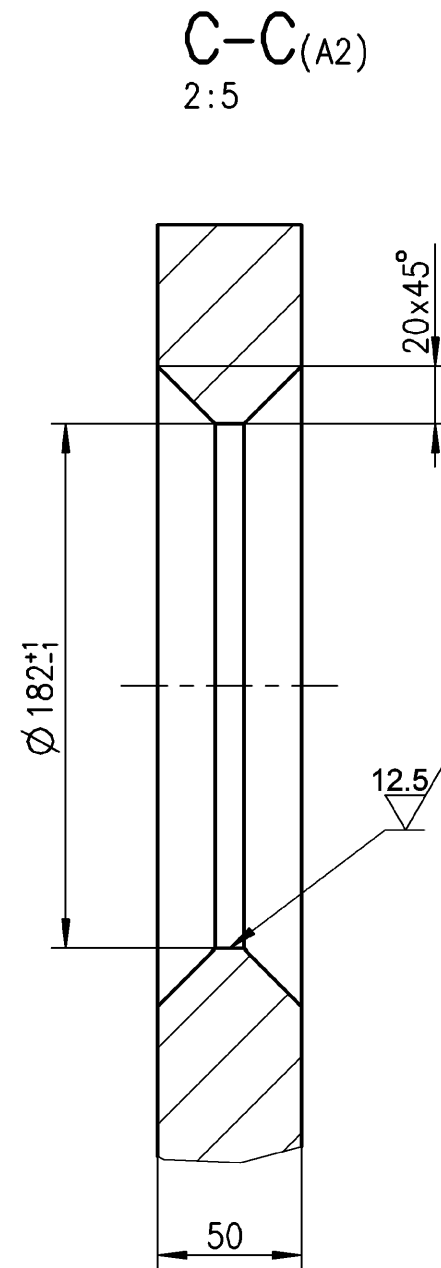
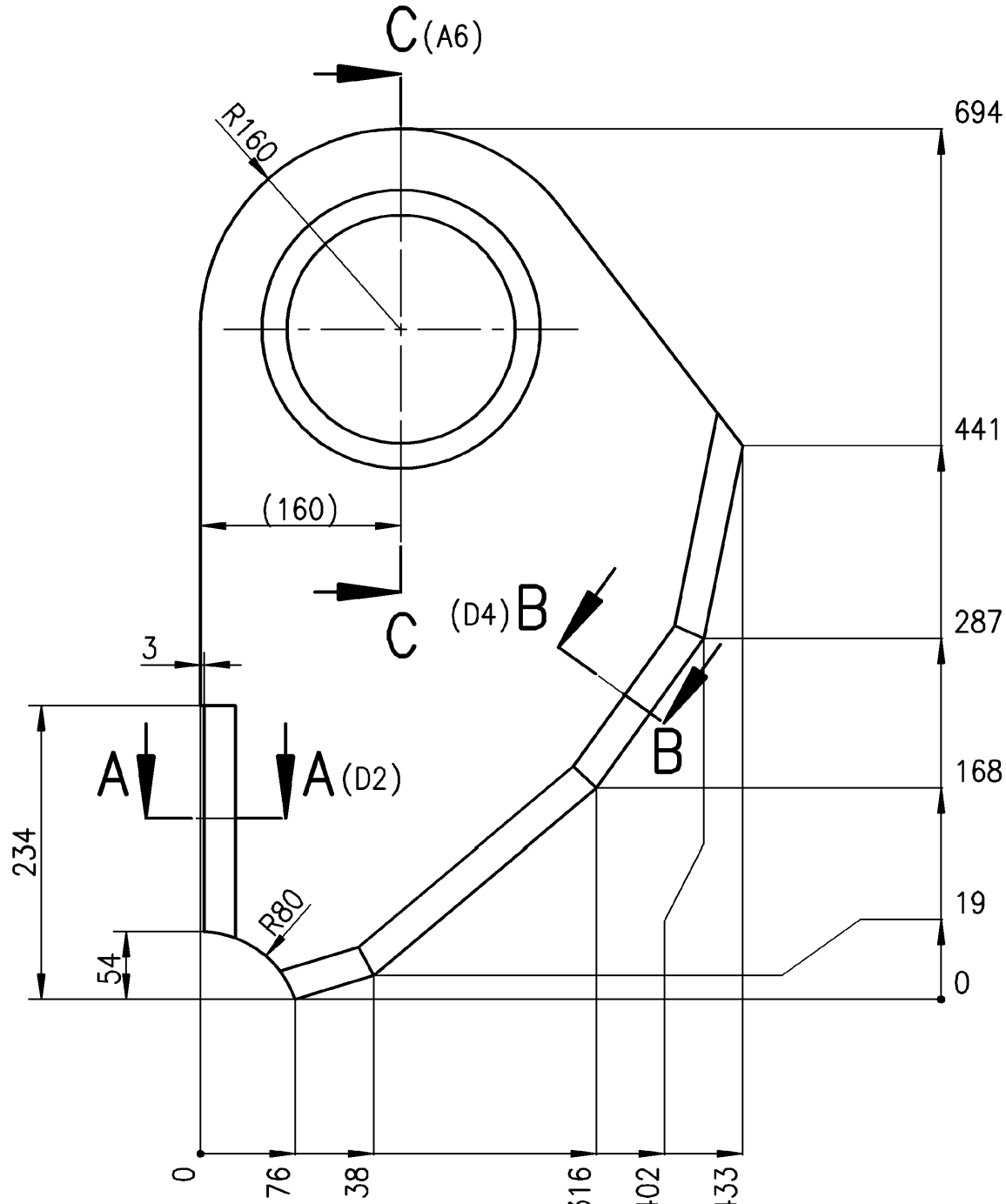
DRAWING No. 2-10762-58113

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

50/ALL OVER EXCEPT
OTHERWISE STATED

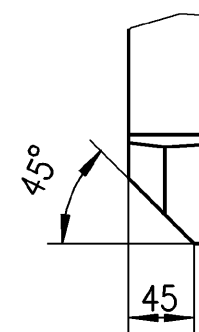
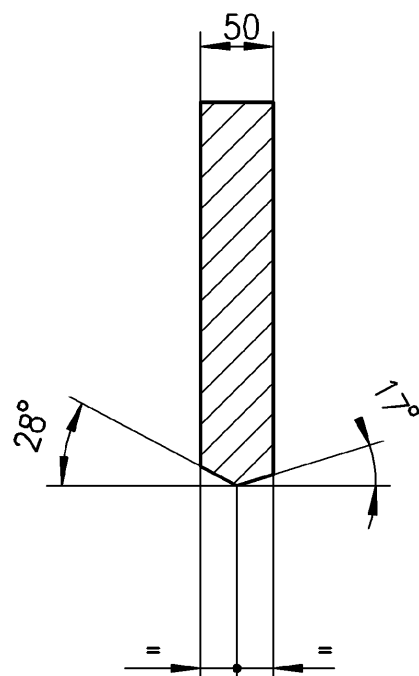


TECHNICAL REQUIREMENTS:-

1) IDENTIFICATION ACCORDING TO HW0400397

8

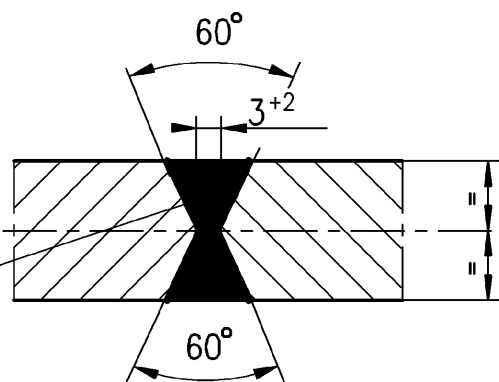
A-A(A3)
1:5



* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP
OVERLAPPIINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

NOT TO SCALE



ALTERNATIVE VALUES IN ACC. TO: —
ISO9692-1/9692-2.
MODIFIED VALUES SHALL BE DOCUMENTED!

GRADE OF UNTOL.DIM
M/CG.-C/M/F AA0230208
WELDING-A/B/C/D // // AA0621104
GAS CUTTING-T3'AA0621101

GMS No./ CBOM No. 0-10762-58000			STATUS OF DRG
AGREED DEPT	NAME	SIGN	DATE
WT	V.KUMAR	SD/-	10.12.11

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

STEAM TURBINE

 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR				DRN	NAME		SIGN		DATE		NO. OF VAR
				CHD	POONAM		SD/-		30.10.2011		
				APPD	DINESH		SD/-		03.11.2011		
					A.SHAH		SD/-		31.12.2011		
DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.			ITEM No.	NO. OF ITEMS		
CODE	4011		1:20	529	0-10762-58000			118	75 77		
TITLE :				CARD CODE	DRAWING NO.						
RING					2-10762-58118				22 23 24		
					SHEET No. -1		No. OF SHEETS -1				

SIZE A2

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TIN NO.
PSK040U522

Ref. Drawing No>
DSPPG-0101605

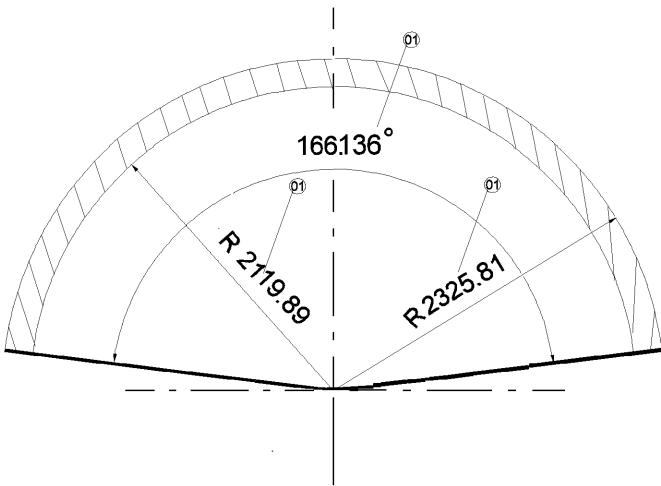
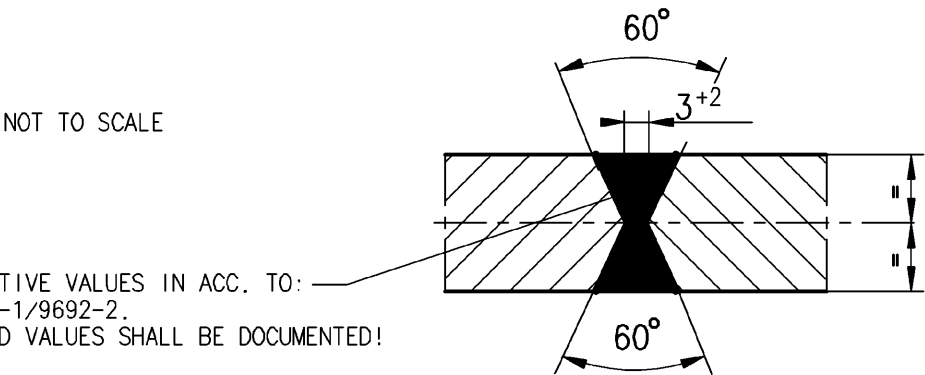
Sign & Date

Inventory No.

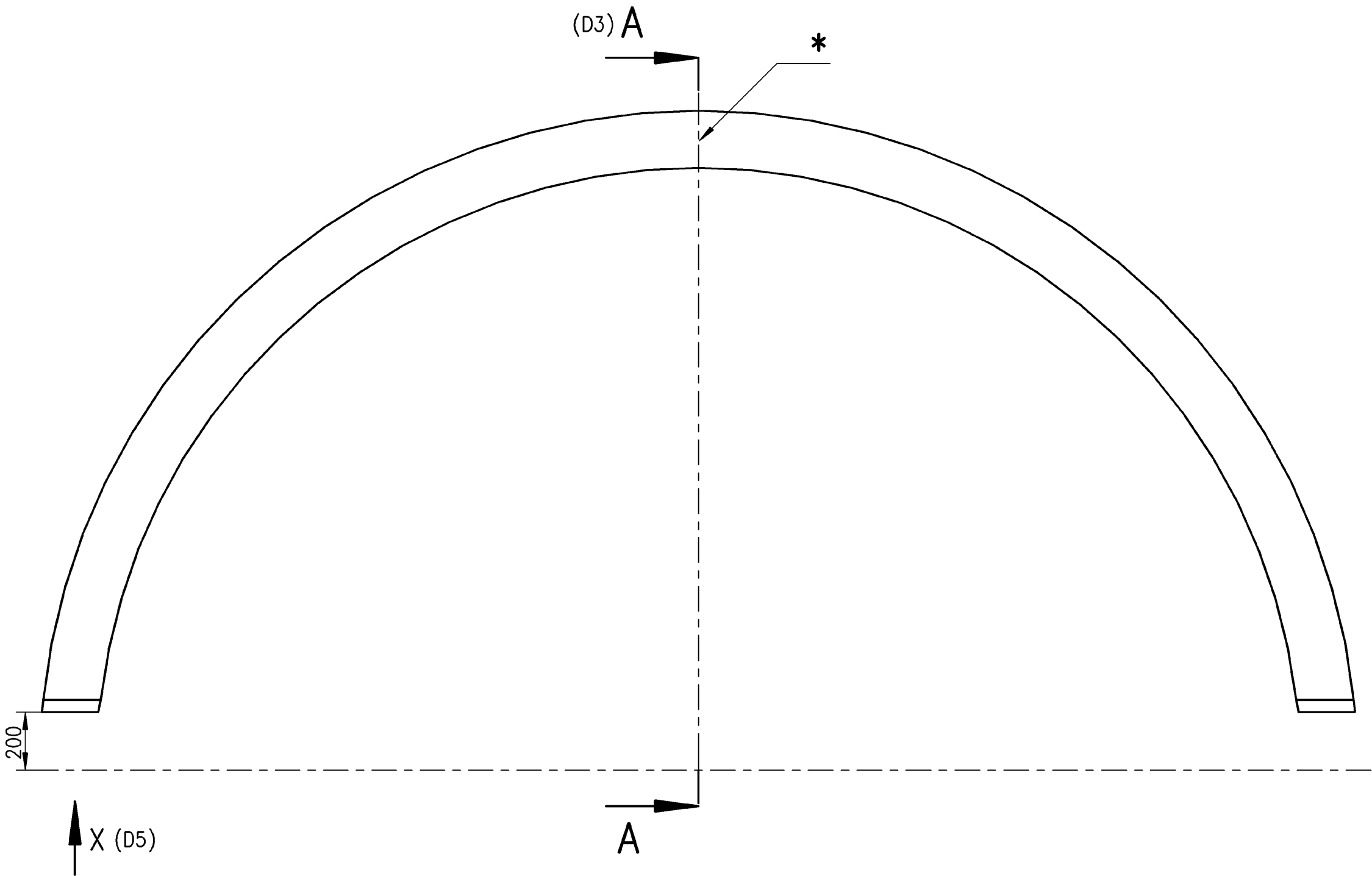
50/ALL OVER EXCEPT OTHERWISE STATED

* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE. THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP OVERLAPPINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

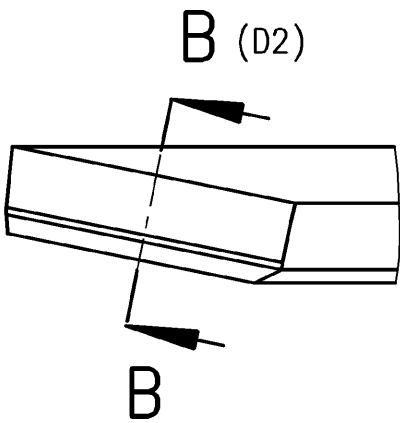
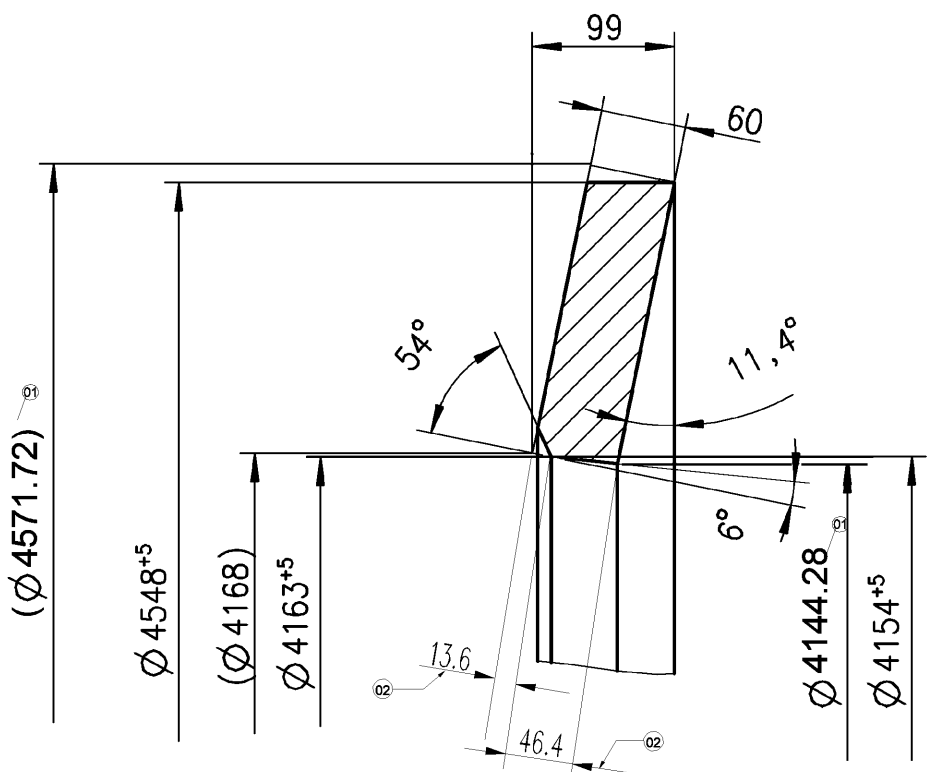
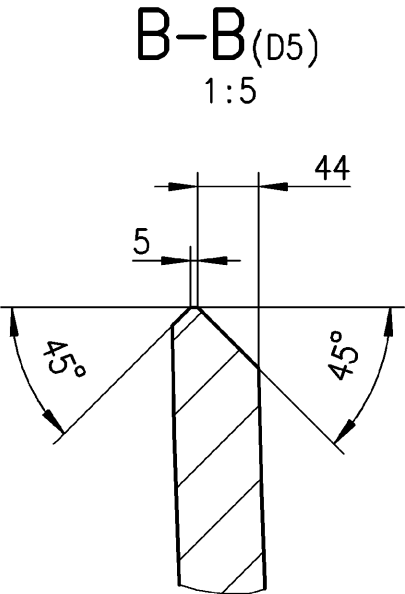


DEVELOPMENT OF TAPER



A-A (A3)
1:5

X (D1)
1:5



TECHNICAL REQUIREMENTS:-

- 1) WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 :BS/BK
- 2) WELDING TEST SCOPE ACCORDING TO HW0850199: CSR-1
- 3) IDENTIFICATION ACCORDING TO HW0400397

TIN NO. PSK040U524
Ref.Drawing No> DSPPG-0101609
Sign & Date
Inventory No.

REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED
1			2			3			4		

GRADE OF UNTOL.DIM				GMS No./ CBOM No. 0-10762-58000				STATUS OF DRG			
M/CG.-C/M/F AA0230208				AGREED DEPT				NAME			
WELDING-A/B/C/D				WT				V.KUMAR			
GAS CUTTING-T3'AA0621101								SD/-			
REV 02				DATE 04.03.15				ALTERED CHECKED			
ANOOP DINESH				REV 01				DATE 12.06.13			
IN SECTION A-A DIM.13.6 & DIM.46.40 ADDED IN DRG.				ALTERED CHECKED				MONIKA DINESH			
AS PER C\A NO. STE-15-F0012.				DEVELOPMENT LENGTH CHANGED				AS PER C/A NO. STE-13-F0218.			

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE							
BHARAT HEAVY ELECTRICALS LTD.				RANIPUR, HARDWAR				NAME			
DRN				SD/-				SIGN			
CHD				DINESH				SD/-			
APPD				A.SHAH				SD/-			
DEPT				STE				DATE			
CODE				4011				30.10.2011			
TITLE :				TAPER				NO. OF VAR			
CARD CODE				7				73 74			
DRAWING NO.				2-10762-58134				ITEM NO. OF			
SHEET No. -1				No. OF SHEETS -1				134			
								22 23 24			

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TIN NO.
PSK040U525

Ref Drawing No
DSPPG-0101613

Sign & Date

Inventory No.

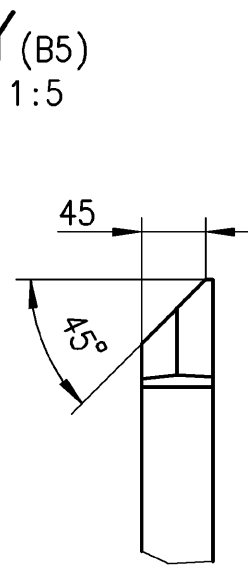
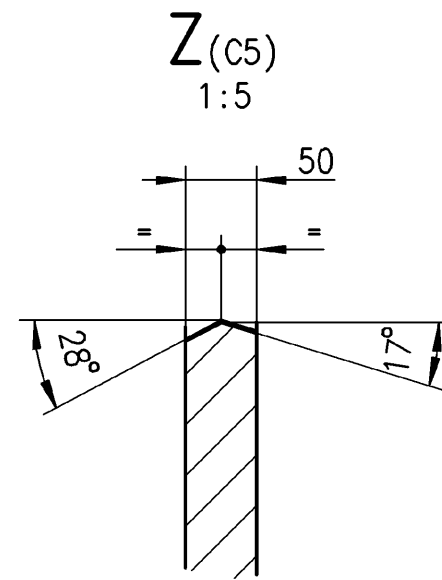
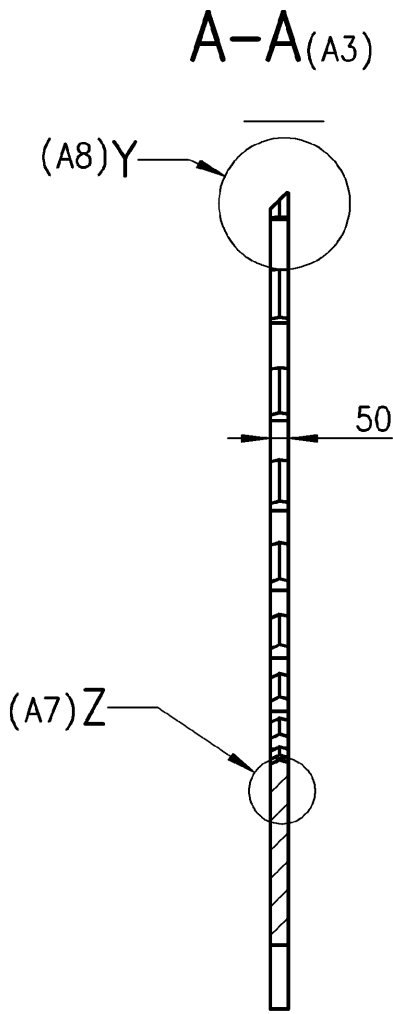
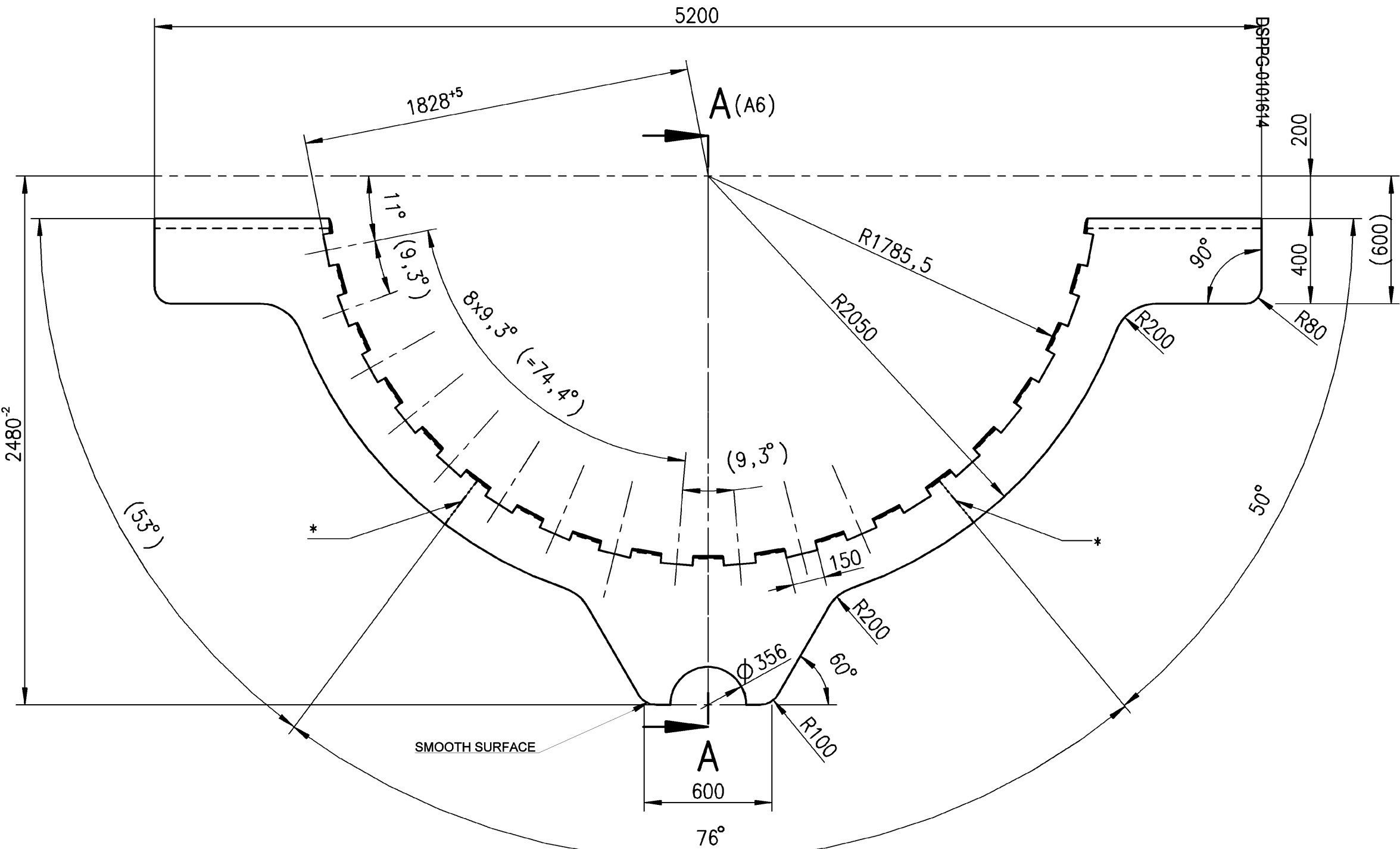
DRAWING No. 2-10762-58206

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

50/ALL OVER EXCEPT OTHERWISE STATED

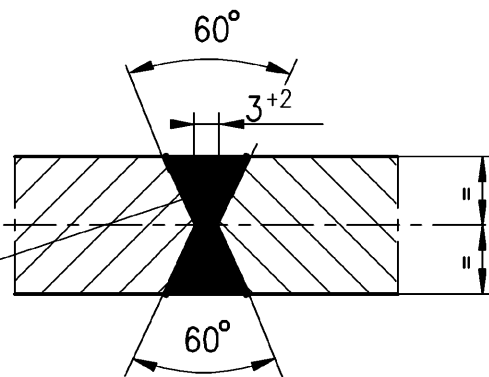


* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP
OVERLAPPINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

NOT TO SCALE

ALTERNATIVE VALUES IN ACC. TO:
ISO9692-1/9692-2.
MODIFIED VALUES SHALL BE DOCUMENTED!



TECHNICAL REQUIREMENTS:-

- 1) WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 :BS/BK
- 2) WELDING TEST SCOPE ACCORDING TO HW0850199: CSR-1
- 3) IDENTIFICATION ACCORDING TO HW0400397

GMS No./ CBOM No.
0-10762-58000

STATUS
OF DRG

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

STEAM TURBINE

GRADE OF UNTOL.DIM
M/CG.-C/M/F AA0230208
WELDING-A/B/C/D // AA0621104
GAS CUTTING-T3'AA0621101

AGREED DEPT NAME SIGN DATE
WT V.KUMAR SD/- 10.12.2011



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

NAME SIGN DATE
POONAM SD/- 30.10.2011
DINESH SD/- 03.11.2011
A.SHAH SD/- 31.12.2011

NO. OF
VAR

REV DATE ALTERED CHECKED
1 2 3 4 5 6

REV DATE ALTERED CHECKED
01 11.11.16 11.11.16 11.11.16

DIM 2480 CHANGED TO 2480⁻²

AS PER C/A NO STE-16-F0335

DEPT STE

CODE 4011

SCALE 1:20

WEIGHT (KG) 843

REF. TO ASSY. DRG.
0-10762-58000

ITEM
No.
206

NO. OF
ITEMS
75 77

TITLE :
RING

CARD
CODE

DRAWING NO.
2-10762-58206

SHEET No.-1 No. OF SHEETS-1

SIZE A2

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Inventory No.
Sign & Date
Ref.Drawing No>
DPPPG-0101614
TIN NO.
PSK040U526

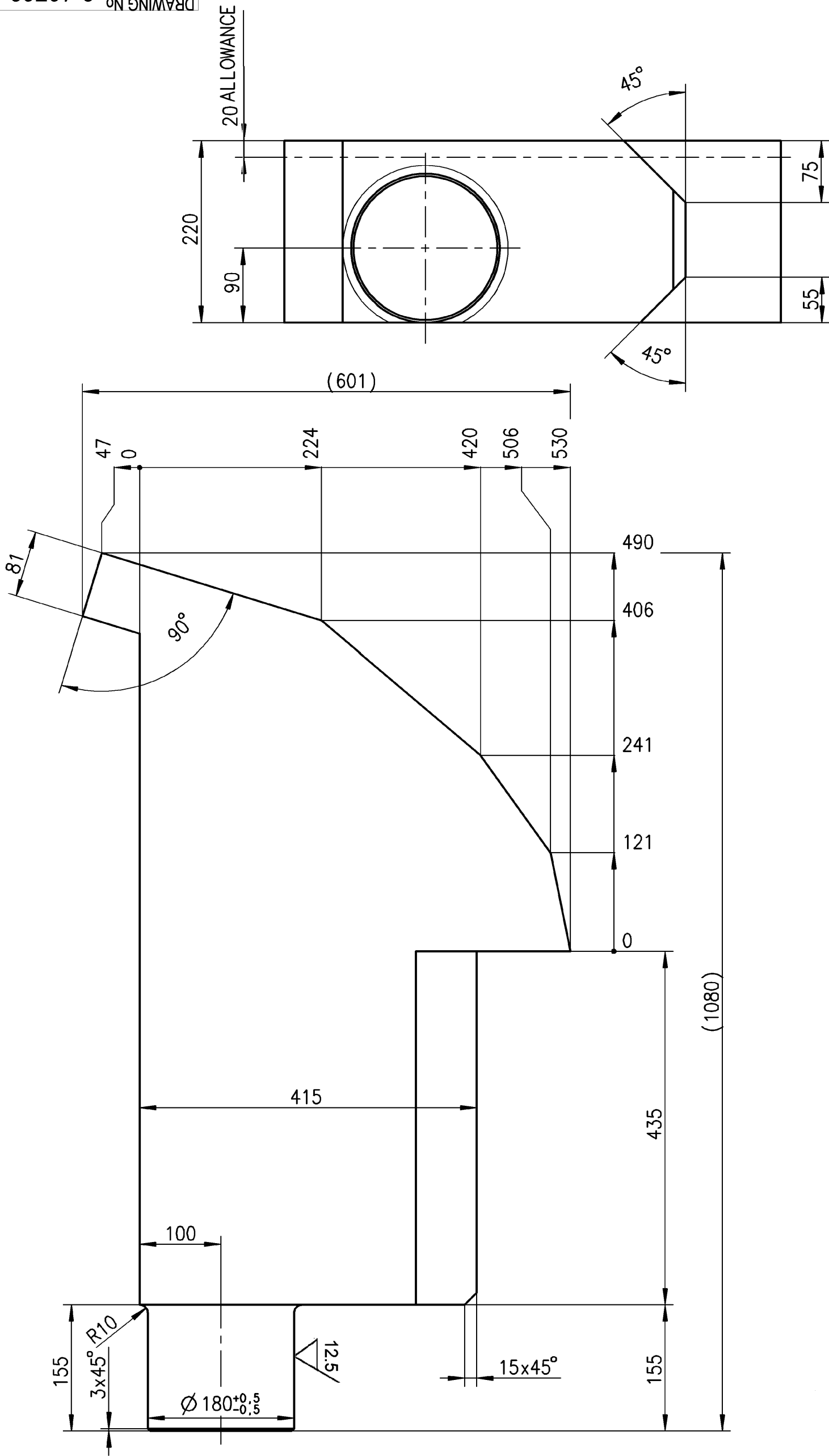
17789-29707-2
DRAWING No. 2-10762-58221

FIRST ANGLE PROJECTION

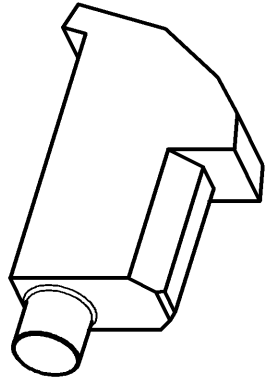
(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

✓ GAS CUT ALL OVER EXCEPT OTHERWISE STATED



1:20



TECHNICAL REQUIREMENTS:-

- 1) FORGING DRAWING NO-21076258998 VAR.01, MAT.SPEC.AA19341
MAT. CODE-W95310762086
- 2) IDENTIFICATION ACCORDING TO HW0400397

				GMS No. / CBOM No. 0-10762-58000				STATUS OF DRG		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT						STEAM TURBINE			
GRADE OF UNTOL.DIM				AGREED DEPT		NAME		SIGN		DATE		 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR DRN CHD APPD NAME POONAM DINESH A.SHAH SIGN SD/- SD/- SD/- DATE 30.10.2011 03.11.2011 31.12.2011 NO. OF VAR 73 74							
M/CG.-C/M/F AA0230208				WT		V.KUMAR		SD/-		10.12.11									
WELDING-A/B/C/D // // AA0621104																			
GAS CUTTING-T3//AA0621101																			
REV 02		DATE 25.1.17		ALTERED CHECKED		SD/- MANOJ SD/- DINESH		REV 01		DATE 05.08.13		ALTERED CHECKED		MONIKA DINESH		DEPT STE CODE TITLE : 4011 PLATE CARD CODE			
MACHINING SYMBOL ADDED.								MACHINING SYMBOL TO BE REMOVED.											
AS PER C/A NO. STE-17-F0004								AS PER C/A NO. STE-13-F0276.											
				5								6							

SIZE A2

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TIN NO
PSK040U527

Ref.Drawing No>
DSPPG-0101614

Sign & Date

Inventory No.

FIRST ANGLE PROJECTION

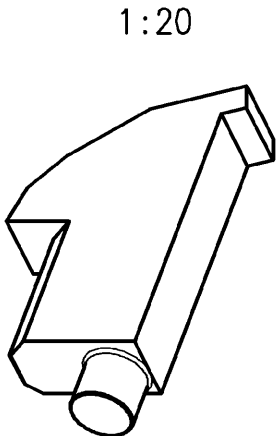
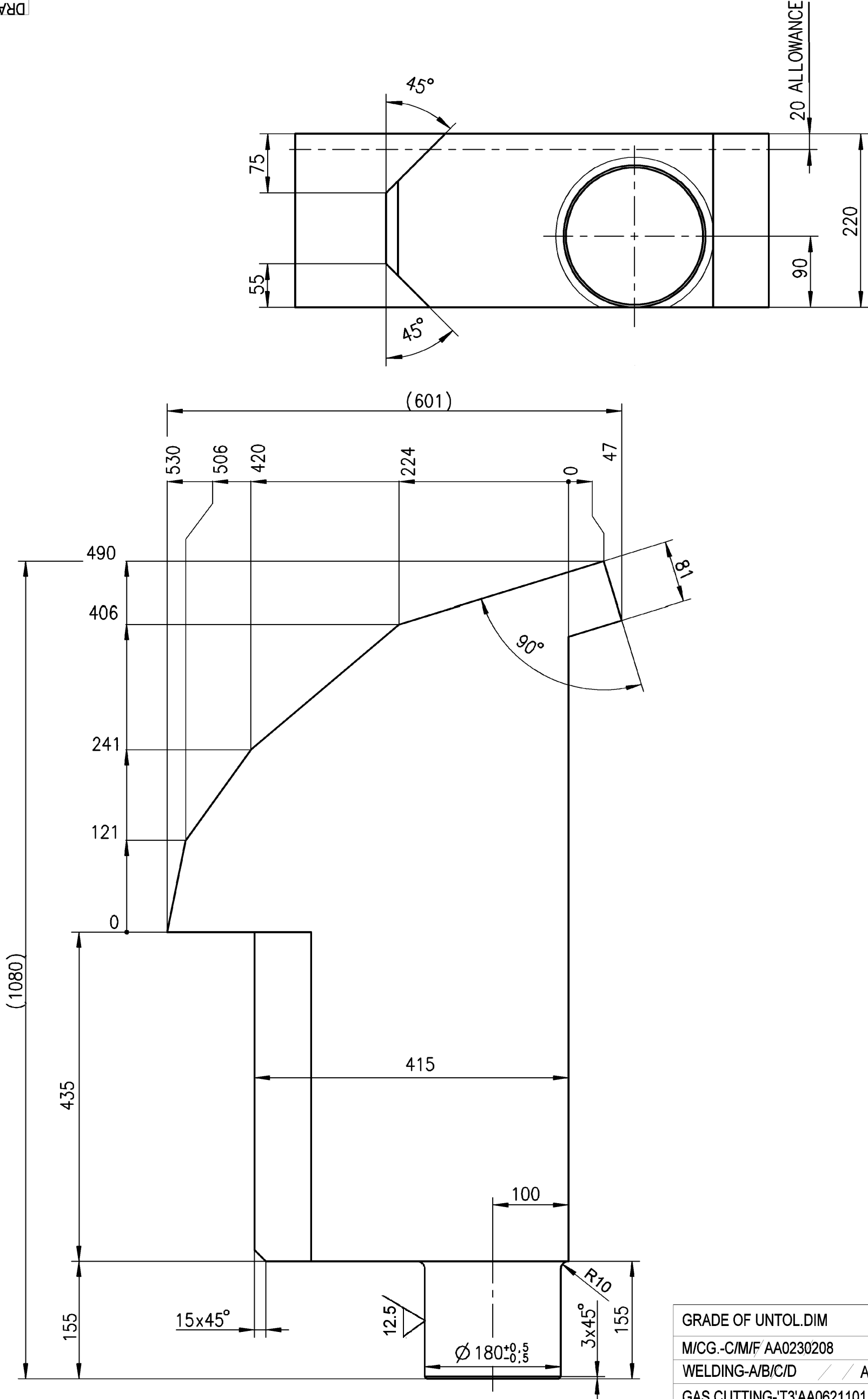
(ALL DIMENSIONS ARE IN mm)

FORM DG 44(B)

2-10762-58222

DRAWING No.

✓ GAS CUT ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

- 1) FORGING DRG NO.21076258998. VAR.02 .MTL.SPEC-AA19341. MAT. CODE-W95310762094
- 2) IDENTIFICATION ACCORDING TO HW0400397

GRADE OF UNTOL.DIM			
M/CG.-C/M/F AA0230208			
WELDING-A/B/C/D // AA0621104			
GAS CUTTING-T3'AA0621101			
REV	DATE	ALTERED	SD/-
02	25.1.17	CHECKED	MANOJ SD/- DINESH
MACHINING SYMBOL ADDED.			
AS PER C/A NO. STE-17-F0004			

GMS No./ CBOM No. 0-10762-58000			
AGREED	DEPT	NAME	SIGN
WT	V.KUMAR	SD/-	10.12.11
REV	DATE	ALTERED	MONIKA
01	05.08.13	CHECKED	DINESH
MACHINING SYMBOL TO BE REMOVED.			
AS PER C/A NO. STE-13-F0276.			

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
STEAM TURBINE			
BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR			
DEPT	STE	SCALE	WEIGHT (KG)
CODE	4011	1:5	646
TITLE :		CARD CODE	DRAWING NO.
PLATE		7	2-10762-58222
SHEET No.-1		No. OF SHEETS -1	
		22 23 24	

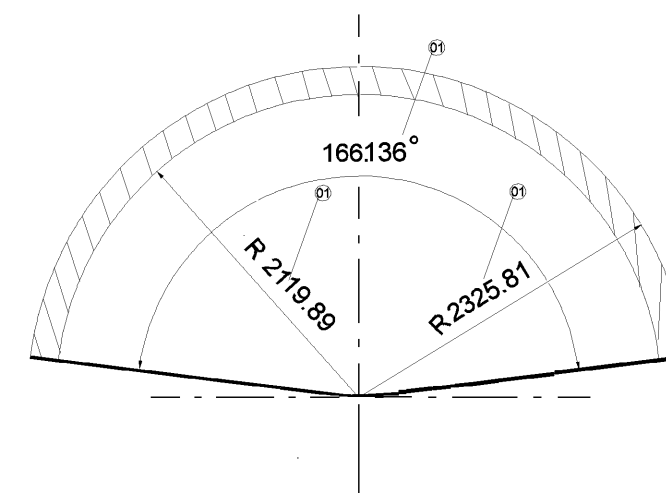
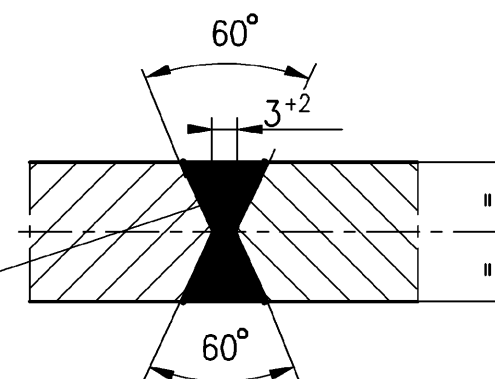
SIZE A2

* IF REQUIRED PLATE DIVIDED IN PARTS AT MARKED PLACE.
THE WELD SEAMS SHALL BE MADE AS FULL-PENETRATION WELDS (SEE SKETCH). PERFORMANCE OF WELD SEAMS DEPENDING ON WELD PROCEDURE IN ACC. TO MAIN DRAWING OF DESIGN GROUP
OVERLAPPIINGS AND INTERSECTIONS OF WELD SEAMS SHALL BE AVOIDED.

DEFINITION: FULL-PENETRATION WELD

NOT TO SCALE

ALTERNATIVE VALUES IN ACC. TO:
ISO9692-1/9692-2.
MODIFIED VALUES SHALL BE DOCUMENTED!



DEVELOPMENT OF TAPER

TECHNICAL REQUIREMENTS:-

- 1) WELD CLASSIFICATION GROUP ACCORDING TO HW0620099 :BS/BK
- 2) WELDING TEST SCOPE ACCORDING TO HW0850199: CSR-1
- 3) IDENTIFICATION ACCORDING TO HW0400397

GRADE OF UNTOL.DIM
M/CG.-C/M/F AA0230208
WELDING-A/B/C/D / / AA0621104
GAS CUTTING-T3'AA0621101

GMS No./CBOM No. 0-10762-58000			STATUS OF DRO
AGREED DEPT	NAME	SIGN	DATE
WT	V.KUMAR	SD/-	10.12.11

	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	DATE
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STEAM TURBINE

 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR				DRN	NAME	SIGN	DATE	NO. OF VAR
				CHD	POONAM	SD/-	30.10.2011	
					DINESH	SD/-	03.11.2011	
				APPD	A.SHAH	SD/-	31.12.2011	
DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS	
CODE	4011		1:15	566	0-10762-58000	235	75 77	
TITLE : TAPER				CARD CODE	DRAWING NO.		22 23 24	
					6-2-10762-58235			
					7			
					SHEET No.-1		No. OF SHEETS-1	

SIZE A2

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Ref. Drawing No> DSPPG-0101616	TIN NO. PSK040U529
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Sign & Date

Inventory No.

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Inventory No.	Sign & Date	Ref.Drawing No> DSPPG-0102215	TIN NO. PSK041K767

Inventory No.	Sign & Date	Ref.Drawing No> DSPPG-0102215	TIN NO. PSK041K767	GMS No./ C B O M 0-10741-58000		STATUS OF DRG U	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT										
				AGREED DEPT			NAME	SIGN	DATE	STEAM TURBINE							
				GRADE OF UNTOL.DIM		WT	H.VERMA	SD/-	04.08.12	NAME OF CUSTOMER/PROJECT							
				M/CG.-C/M/7 AA0230208						BHARAT HEAVY ELECTRICALS LTD.							
WELDING-A/B/C/D / / AA0621104						RANIPUR, HARDWAR											
GAS CUTTING-T3'AA0621101						BHARAT HEAVY ELECTRICALS LTD.											
REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	SD/- MANOJ SD/- DINESH	DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM No.	NO. OF ITEMS
														0-10741-58000			
DIM 65 CHANGED TO DIM 75MM.										TITLE :			CARD CODE	DRAWING NO.		22 23 24	
AS PER C/A NO. STE-16-F0412										PLATE				3-10741-58104			
													SHEET No. 1		No. OF SHEETS 1		

SIZE A3

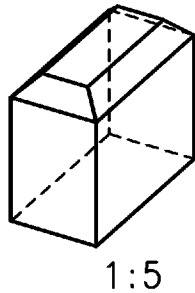
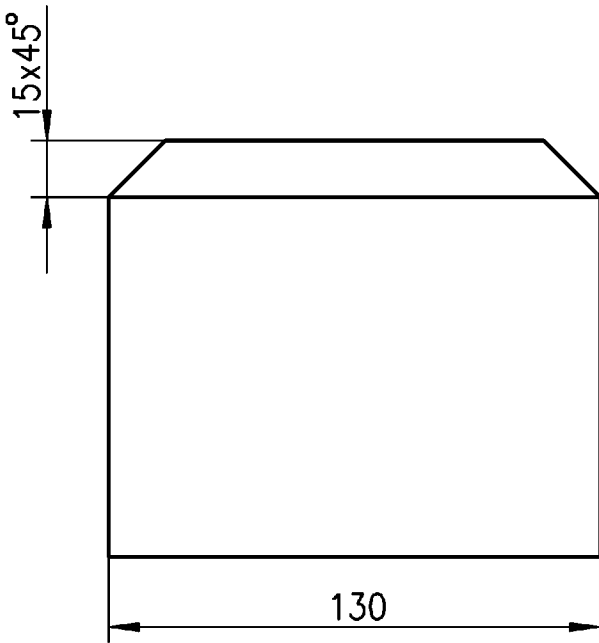
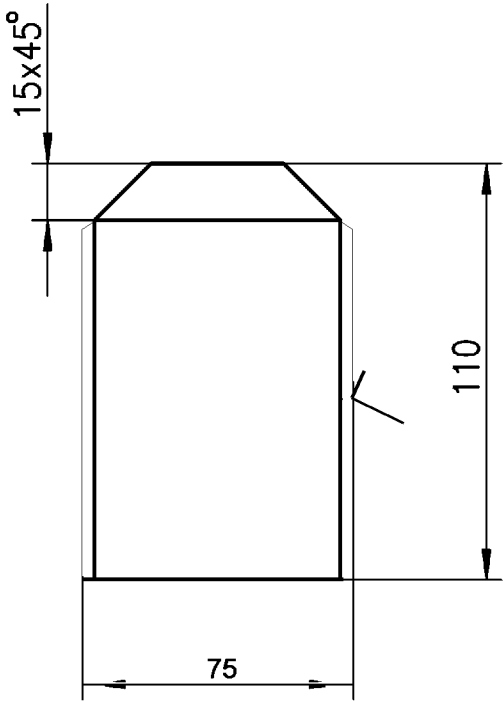
DRAWING No. 3-10741-58104

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

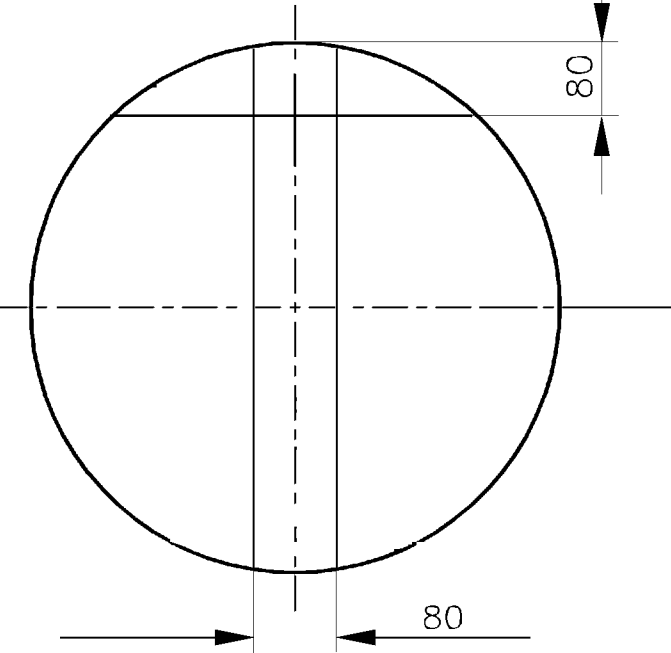
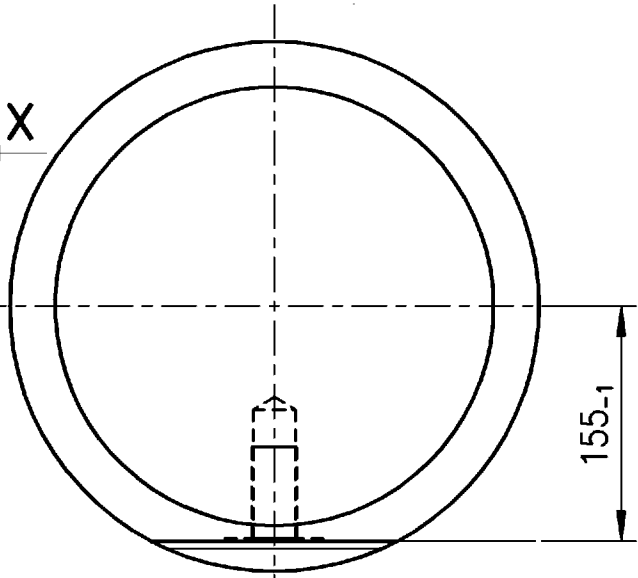
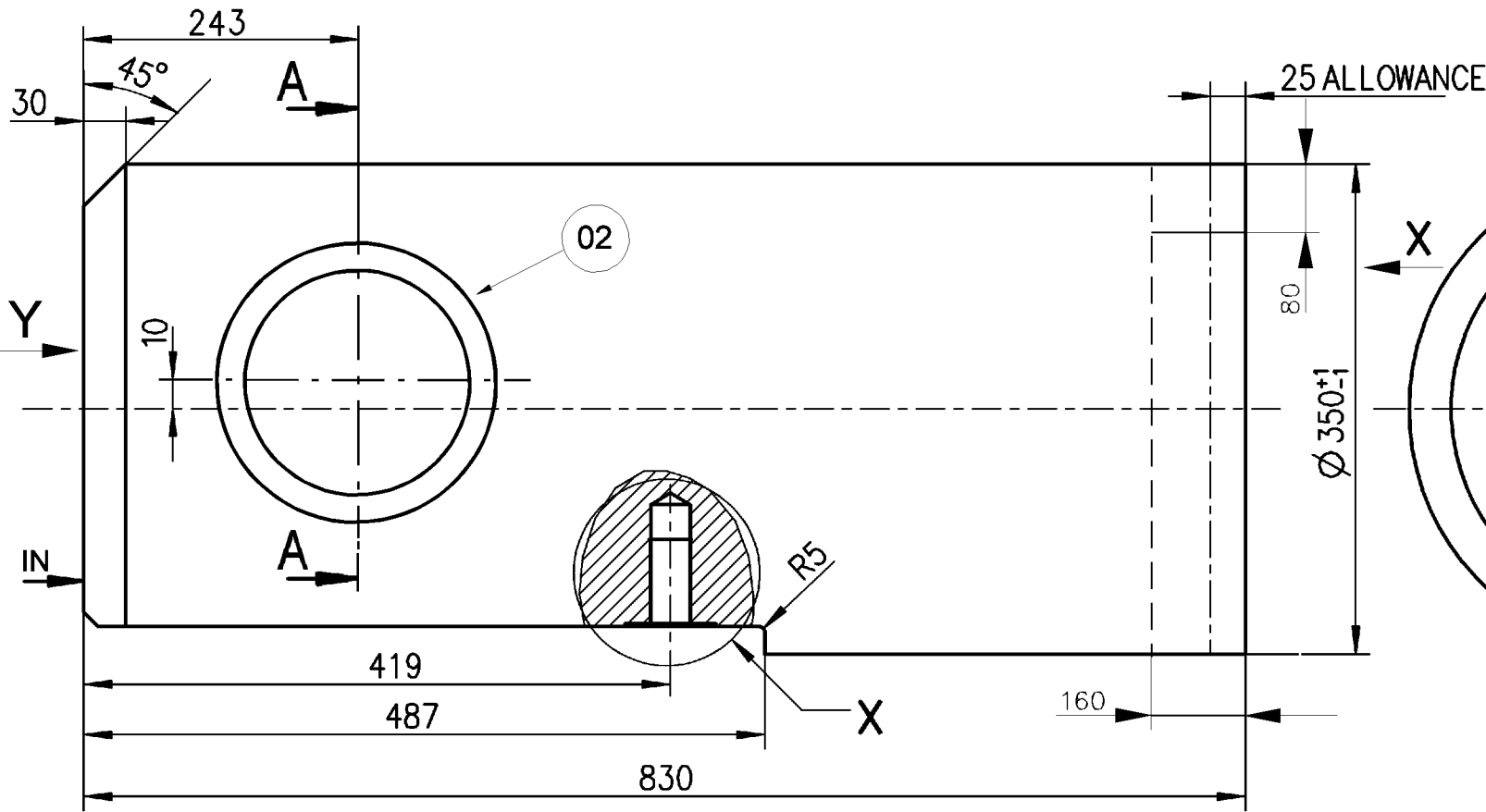
FORM DG 38(B)

50/ ALL OVER EXCEPT
OTHERWISE STATED



80Z89-1/01-3
DRAWING No. 3-10741-58208

12.5/
ALL OVER EXCEPT
OTHERWISE STATED

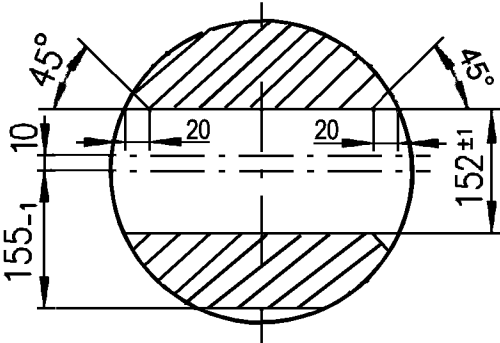
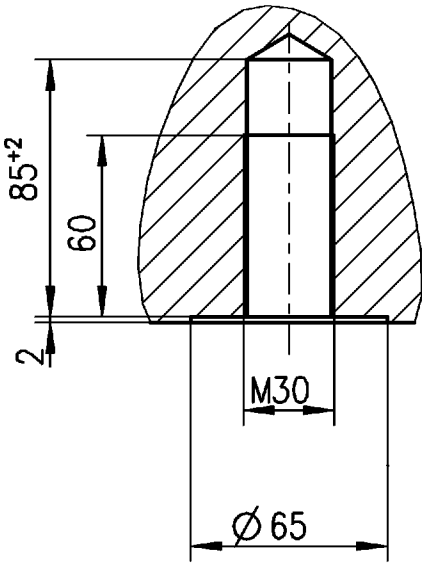


VIEW-Y

VIEW-X

X
2:5

SECTION AA



TECHNICAL REQUIREMENT:-

- (1) IDENTIFICATION ACCORDING TO HW0400397 AT THE PLACE MARKED WITH IN
(2) FORGING DRAWING NO. 3-10741-58999 MATERIAL CODE-W95310741020 .

GMS No./ C-BOM 0-10741-58000			STATUS OF DRG
AGREED DEPT	NAME	SIGN	DATE
TTX	SANTOSH	SD/-	04.08.12

TYPE OF PRODUCT **STEAM TURBINE**
OR
NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR — 73 74
DRN	ANOOP	SD/-	11.06.12	
CHD	DINESH	SD/-	11.06.12	
APPD	D.K. RAY	SD/-	04.08.12	

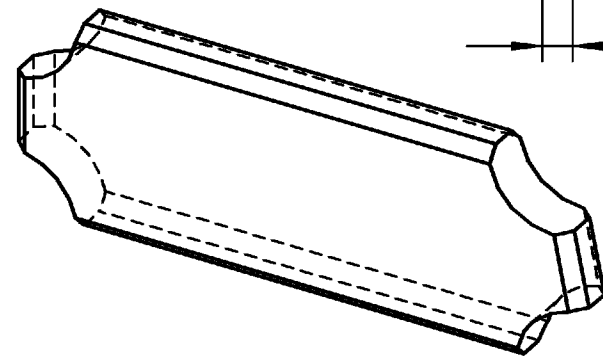
REV	DATE	ALTERED	Manoj Kumar	REV	DATE	ALTERED	ANOOP
02	27.07.17	CHECKED	Dinesh Gond	01	29.05.14	CHECKED	DINESH

DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM	NO. OF
CODE	4011	1:5	615	0-10741-58000	No.	ITEMS
					208	75 77

MAIN VIEW UPDATED . SECTION AA ADDED.				VIEW- X TO BE ADDED & VIEW-Y SHOW AND MARKED.			
AS PER C/A NO. STE-17-F0199.				ASA PER C/A NO. STE-14-F0144.			

TITLE : CENTER GUIDE			CARD CODE	DRAWING NO. 3-10741-58208	22 23 24
SHEET No. 1		No. OF SHEETS 1			

50/ ALL OVER EXCEPT
OTHERWISE STATED



(1) IDENTIFICATION ACCORDING TO HW0400397

SIZE A3

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Inventory No.

Sign & Date

Ref.Drawing No>
DSPPG-0127025

TIN NO.
PSK046L655

3-10742-58109

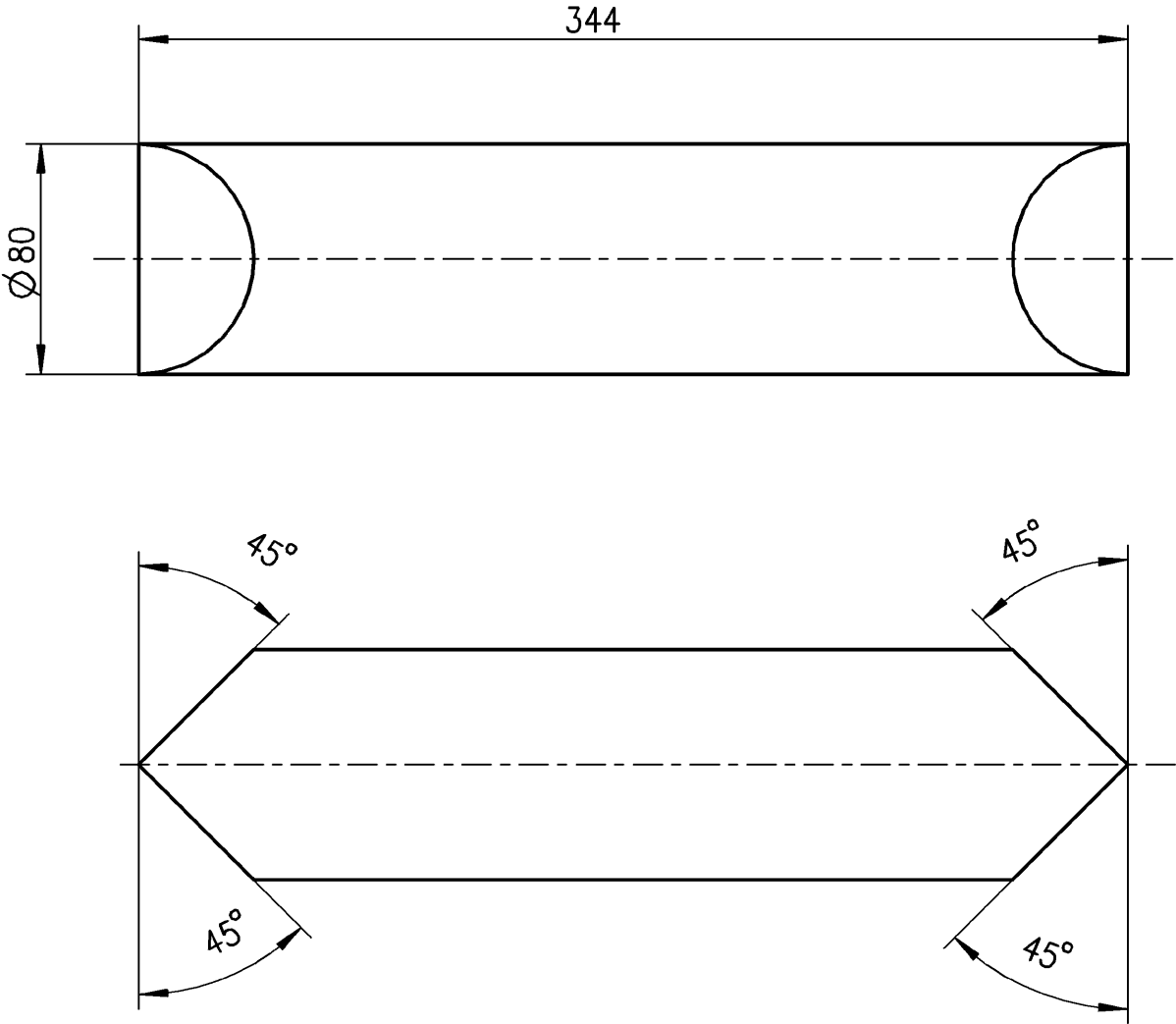
DRAWING No.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 38(B)

50 / ALL OVER EXCEPT OTHERWISE STATED



TECH.REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400397.

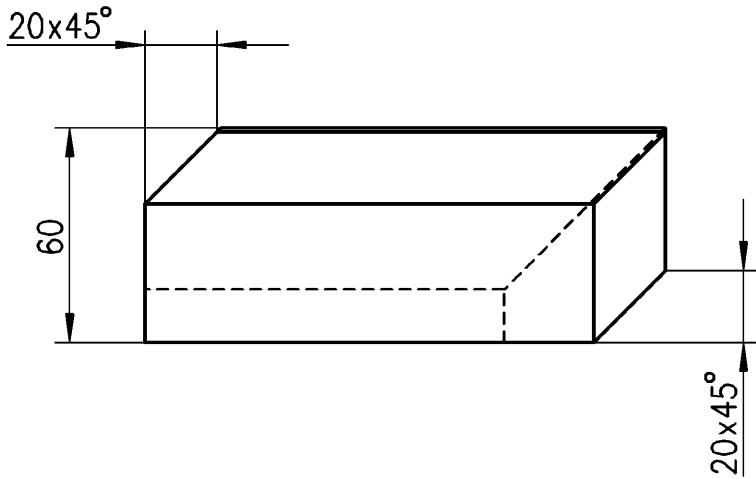
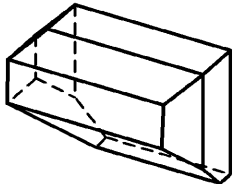
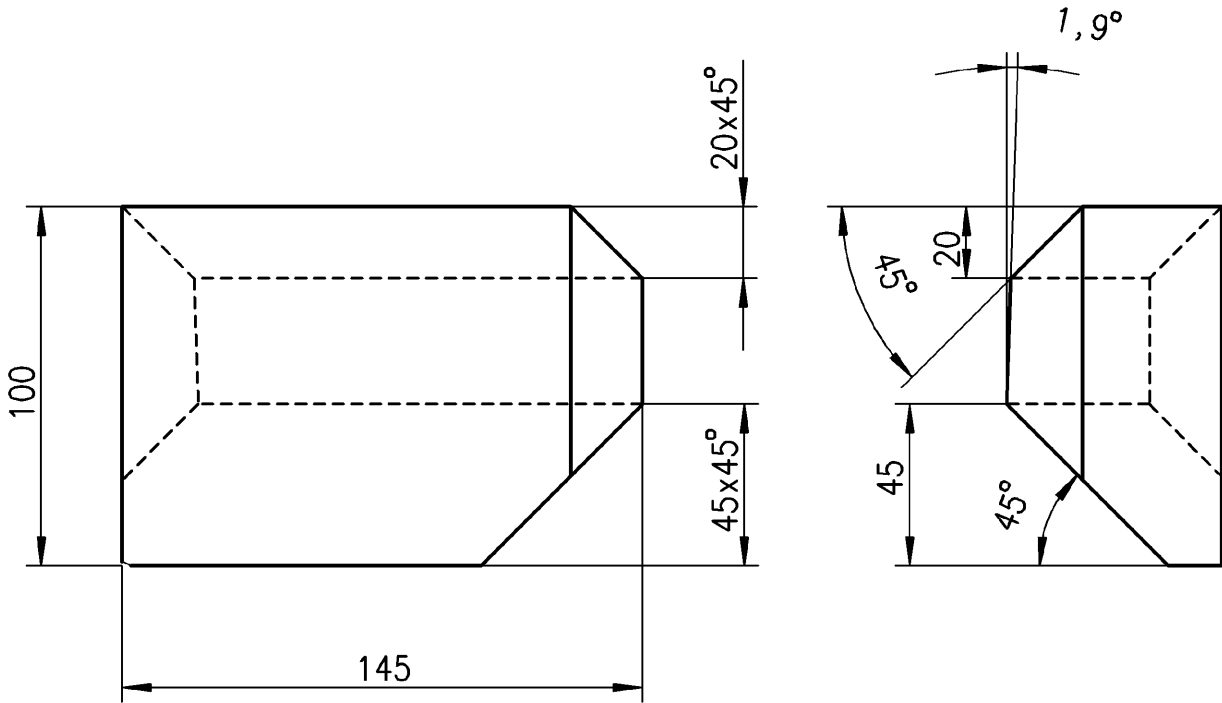
GMS No./ C B O M 9-10742-58000			STATUS OF DRG U		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT																						
AGREED DEPT WT			NAME H. VERMA		SIGN SD/-		DATE 28.07.12		बी एच ई एल भारत भारी बिजली BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR <table><tr><td>NAME</td><td>SIGN</td><td>DATE</td><td rowspan="3">NO. OF VAR 73 74</td></tr><tr><td>DRN POONAM</td><td>SD/-</td><td>28.11.2011</td></tr><tr><td>CHD DINESH</td><td>SD/-</td><td>01.12.2011</td></tr><tr><td>APPD D.K.RAY</td><td>SD/-</td><td></td><td></td></tr></table>					NAME	SIGN	DATE	NO. OF VAR 73 74	DRN POONAM	SD/-	28.11.2011	CHD DINESH	SD/-	01.12.2011	APPD D.K.RAY	SD/-		
NAME	SIGN	DATE	NO. OF VAR 73 74																								
DRN POONAM	SD/-	28.11.2011																									
CHD DINESH	SD/-	01.12.2011																									
APPD D.K.RAY	SD/-																										
GRADE OF UNTOL.DIM																											
M/CG.-C/M/F AA0230208																											
WELDING-A/B/C/D / / AA0621104																											
GAS CUTTING-'T3'AA0621101																											
REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS												
										4011	2:5	12.2	9-10742-58000	109,209	75 77												
TITLE :									ANCHOR			CARD CODE	DRAWING NO. 3-10742-58109														
												7	22 23 24														
												SHEET No. 01		No. OF SHEETS 01													

SIZE A3

3-10742-58110

DRAWING No.

50 / ALL OVER EXCEPT OTHERWISE STATED



TECH.REQUIREMENT

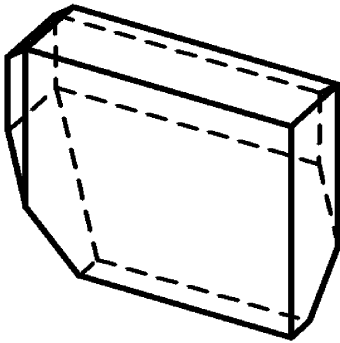
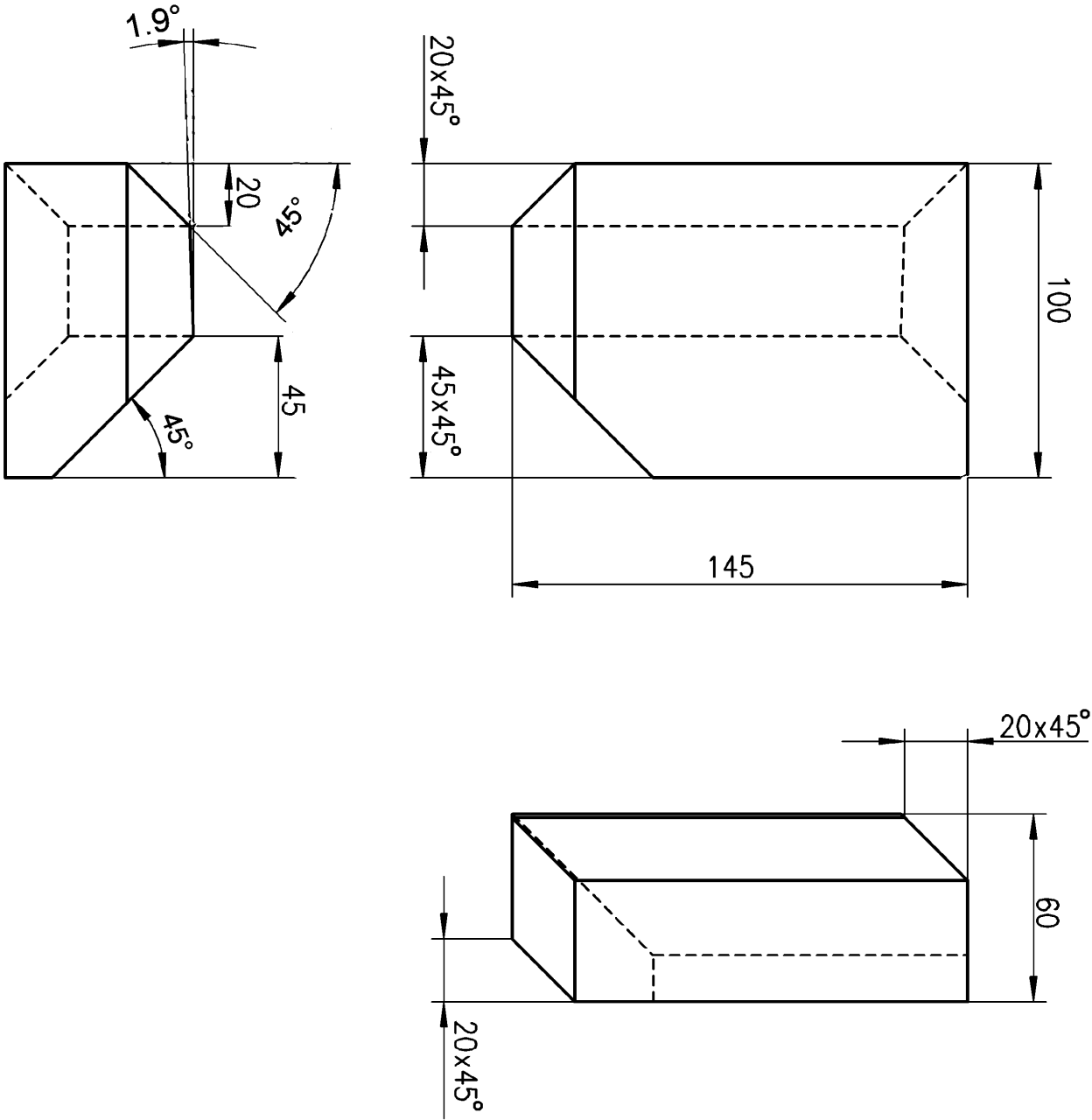
1. IDENTIFICATION ACCORDING TO HW 0400397.

TIN NO. PSK046L666	Ref Drawing No> DSPPG-0127027	Sign & Date	Inventory No.	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	MANOJ DINESH	GMS No./ C B O M 9-10742-58000	STATUS OF DRG U	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT	Bharat Heavy Electricals Ltd. RANIPUR, HARDWAR	DRN CHD APPD	NAME POONAM DINESH D.K.RAY	SIGN SD/- SD/- SD/-	DATE 28.11.2011 01.12.2011 29.07.2012	NO. OF VAR 73 74	ITEM No. 110	NO. OF ITEMS 75 77			
GRADE OF UNTOL.DIM M/CG.-C/M/F AA0230208 WELDING-A/B/C/D / / AA0621104 GAS CUTTING-'T3'AA0621101																											
WEIGHT 4.9 CHANGED TO 5.2 KG																											
C/A NO.STE-15-F0245.																											
DEPT STE																											
COBE 4011																											
TITLE : PLATE																											
SCALE 1:5																											
WEIGHT (KG) 5.2																											
REF. TO ASSY. DRG. 9-10742-58000																											
DRAWING NO. 3-10742-58110																											
SHEET No. 01														No. OF SHEETS 01													

3-10742-58111

DRAWING No.

50 / ALL OVER EXCEPT OTHERWISE STATED



TECH.REQUIREMENT

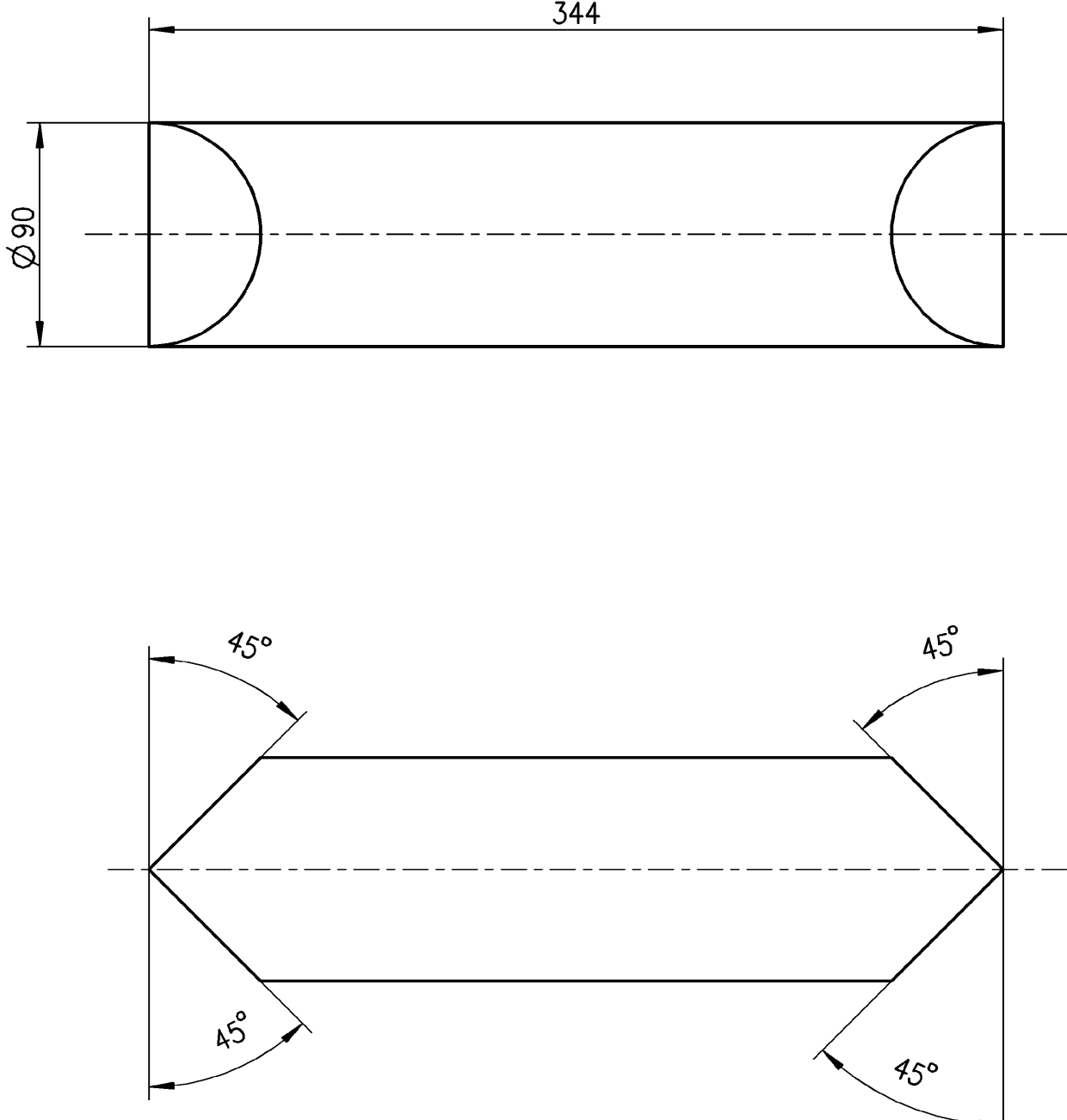
1. IDENTIFICATION ACCORDING TO HW 0400397.

TIN NO. PSK046L657	Ref Drawing No> DSPPG-0127027	Sign & Date	Inventory No.	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	REV	DATE	ALTERED CHECKED	GMS No./ C B O M 9-10742-58000				STATUS OF DRG U	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
													AGREED DEPT	NAME	SIGN	DATE		STEAM TURBINE					
GRADE OF UNTOL.DIM													WT	H. VERMA	SD/-	28.07.12	BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR						
M/CG.-C/M/F AA0230208																	DRN POONAM SD/- 28.11.2011 NO. OF VAR						
WELDING-A/B/C/D / / AA0621104																	CHD DINESH SD/- 01.12.2011						
GAS CUTTING-'T3'AA0621101																	APPD D.K.RAY SD/- 73 74						
REV DATE ALTERED CHECKED													REV DATE ALTERED CHECKED	REV DATE ALTERED CHECKED	DEPT STE			SCALE 1:5	WEIGHT (KG) 4.9	REF. TO ASSY. DRG. 9-10742-58000		ITEM No. 111	NO. OF ITEMS 75 77
TITLE : PLATE													CARD CODE		DRAWING NO. 3-10742-58111			7 22 23 24					
SHEET No.01													No. OF SHEETS 01										

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Sign & Date	Ref Drawing No>	TIN NO.
	DSPPG-0127061	PSK046L688
Inventory No.		

FIRST ANGLE PROJECTION										(ALL DIMENSIONS ARE IN mm)										FORM DG 38(B)																																																																																																																											
DRAWING No. 3-10742-58156										50 ALL OVER EXCEPT OTHERWISE STATED 																																																																																																																																					
<table><tr><td colspan="3">GRADE OF UNTOL.DIM</td><td colspan="3">GMS No./ C B O M 9-10742-58000</td><td colspan="3">STATUS OF DRG</td></tr><tr><td colspan="3">M/CG.-C/M/F AA0230208</td><td colspan="3">AGREED DEPT</td><td colspan="3">NAME</td><td colspan="3">SIGN</td><td colspan="3">DATE</td></tr><tr><td colspan="3">WELDING-A/B/C/D / / AA0621104</td><td colspan="3">WT</td><td colspan="3">H. VERMA</td><td colspan="3">SD/-</td><td colspan="3">28.07.12</td></tr><tr><td colspan="3">GAS CUTTING-'T3'AA0621101</td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td><td colspan="3"></td></tr></table>										GRADE OF UNTOL.DIM			GMS No./ C B O M 9-10742-58000			STATUS OF DRG			M/CG.-C/M/F AA0230208			AGREED DEPT			NAME			SIGN			DATE			WELDING-A/B/C/D / / AA0621104			WT			H. VERMA			SD/-			28.07.12			GAS CUTTING-'T3'AA0621101															TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT STEAM TURBINE <table><tr><td colspan="2">DEPT</td><td colspan="2">STE</td><td colspan="2">SCALE</td><td colspan="2">WEIGHT (KG)</td><td colspan="4">REF. TO ASSY. DRG.</td><td colspan="2">ITEM No.</td><td colspan="2">NO. OF ITEMS</td></tr><tr><td colspan="2">CODE</td><td colspan="2">4011</td><td colspan="2">2:5</td><td colspan="2">15.3</td><td colspan="4">9-10742-58000</td><td colspan="2">156 256</td><td colspan="2">75 77</td></tr></table> TITLE : ANCHOR <table><tr><td colspan="2">CARD CODE</td><td colspan="2">DRAWING NO.</td><td colspan="2">22 23 24</td></tr><tr><td colspan="2">7</td><td colspan="2">3-10742-58156</td><td colspan="2"></td></tr><tr><td colspan="2">SHEET No. 01</td><td colspan="2">No. OF SHEETS 01</td><td colspan="2"></td></tr></table>																														DEPT		STE		SCALE		WEIGHT (KG)		REF. TO ASSY. DRG.				ITEM No.		NO. OF ITEMS		CODE		4011		2:5		15.3		9-10742-58000				156 256		75 77		CARD CODE		DRAWING NO.		22 23 24		7		3-10742-58156				SHEET No. 01		No. OF SHEETS 01			
GRADE OF UNTOL.DIM			GMS No./ C B O M 9-10742-58000			STATUS OF DRG																																																																																																																																									
M/CG.-C/M/F AA0230208			AGREED DEPT			NAME			SIGN			DATE																																																																																																																																			
WELDING-A/B/C/D / / AA0621104			WT			H. VERMA			SD/-			28.07.12																																																																																																																																			
GAS CUTTING-'T3'AA0621101																																																																																																																																															
DEPT		STE		SCALE		WEIGHT (KG)		REF. TO ASSY. DRG.				ITEM No.		NO. OF ITEMS																																																																																																																																	
CODE		4011		2:5		15.3		9-10742-58000				156 256		75 77																																																																																																																																	
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SHEET No. 01		No. OF SHEETS 01																																																																																																																																													
<table><tr><td>REV</td><td>DATE</td><td>ALTERED</td><td>REV</td><td>DATE</td><td>ALTERED</td><td>REV</td><td>DATE</td><td>ALTERED</td></tr><tr><td></td><td></td><td>CHECKED</td><td></td><td></td><td>CHECKED</td><td></td><td></td><td>CHECKED</td></tr></table>										REV	DATE	ALTERED	REV	DATE	ALTERED	REV	DATE	ALTERED			CHECKED			CHECKED			CHECKED																																																																																																																				
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		CHECKED			CHECKED			CHECKED																																																																																																																																							
										SIZE A3																																																																																																																																					

TECH.REQUIREMENT:-
1. IDENTIFICATION ACCORDING TO HW 0400397.



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

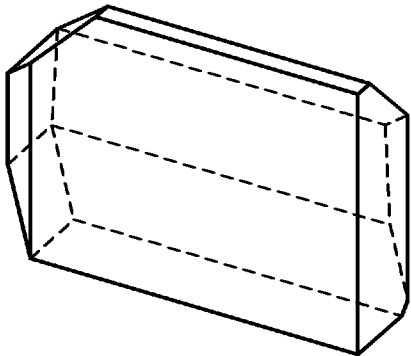
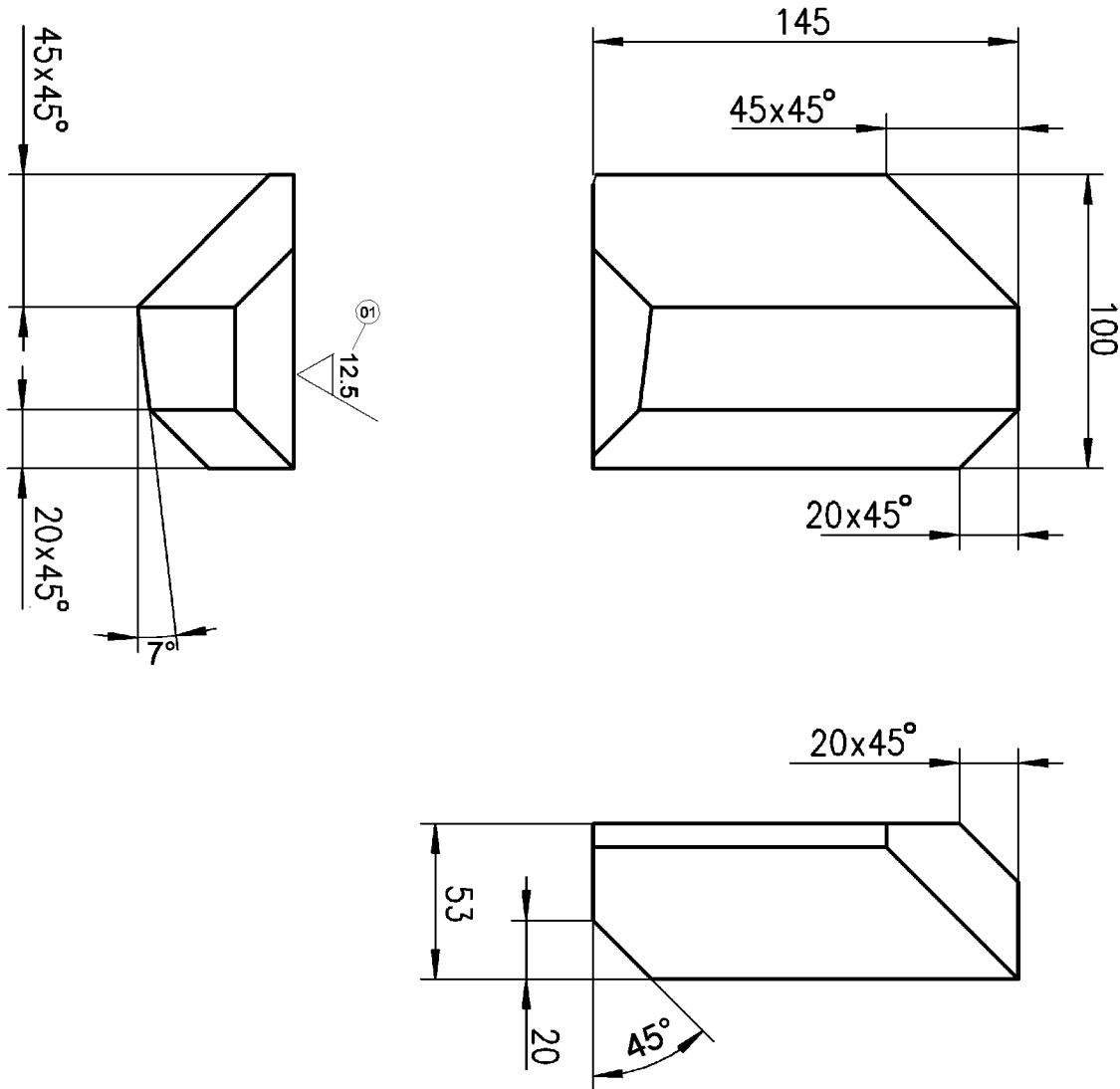
	NAME	SIGN	DATE	NO. OF VAR
DRN	POONAM	SD/-	28.11.2011	
CHD	DINESH	SD/-	01.12.2011	
APPD	D.K.RAY	SD/-		73 74

DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011	2:5	15.3	9-10742-58000	156 256	75 77
TITLE :			CARD CODE	DRAWING NO.		
ANCHOR			7	3-10742-58156		
			SHEET No. 01		No. OF SHEETS 01	

3-10742-58218

DRAWING No.

50/ ALL OVER EXCEPT OTHERWISE STATED



TECH.REQUIREMENT:-

1. IDENTIFICATION ACCORDING TO HW 0400397.

GRADE OF UNTOL.DIM	
M/CG.-C/M/F AA0230208	
WELDING-A/B/C/D / / AA0621104	
GAS CUTTING-'T3'AA0621101	

REV	DATE	ALTERED	MANOJ
02	23.7.15	CHECKED	DINESH

WEIGHT 4.1 CHANGED TO 4.8 KG

C/A NO.STE-15-F0245.

GMS No./ C B O M 9-10742-58000			STATUS OF DRG
AGREED DEPT	NAME	SIGN	DATE
WT	H. VERMA	SD/-	28.07.12
REV	DATE	ALTERED	MONIKA
01	16.01.13	CHECKED	DINESH

AS PER
C/A NO. STE-13-F0028

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

STEAM TURBINE



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

DEPT STE
CODE 4011



SCALE
1:2.5

WEIGHT (KG)
4.8

REF. TO ASSY. DRG.
9-10742-58000

ITEM
No.
218

NO. OF
ITEMS
75 77

TITLE :
PLATE

CARD
CODE

DRAWING NO.
3-10742-58218

7

SHEET No. 01

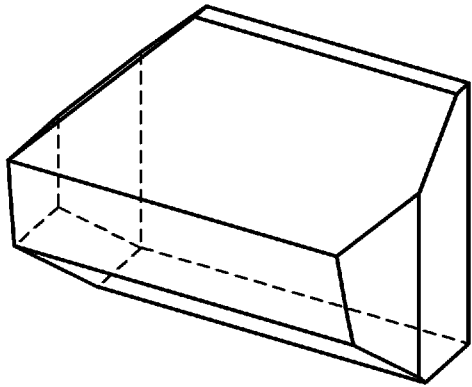
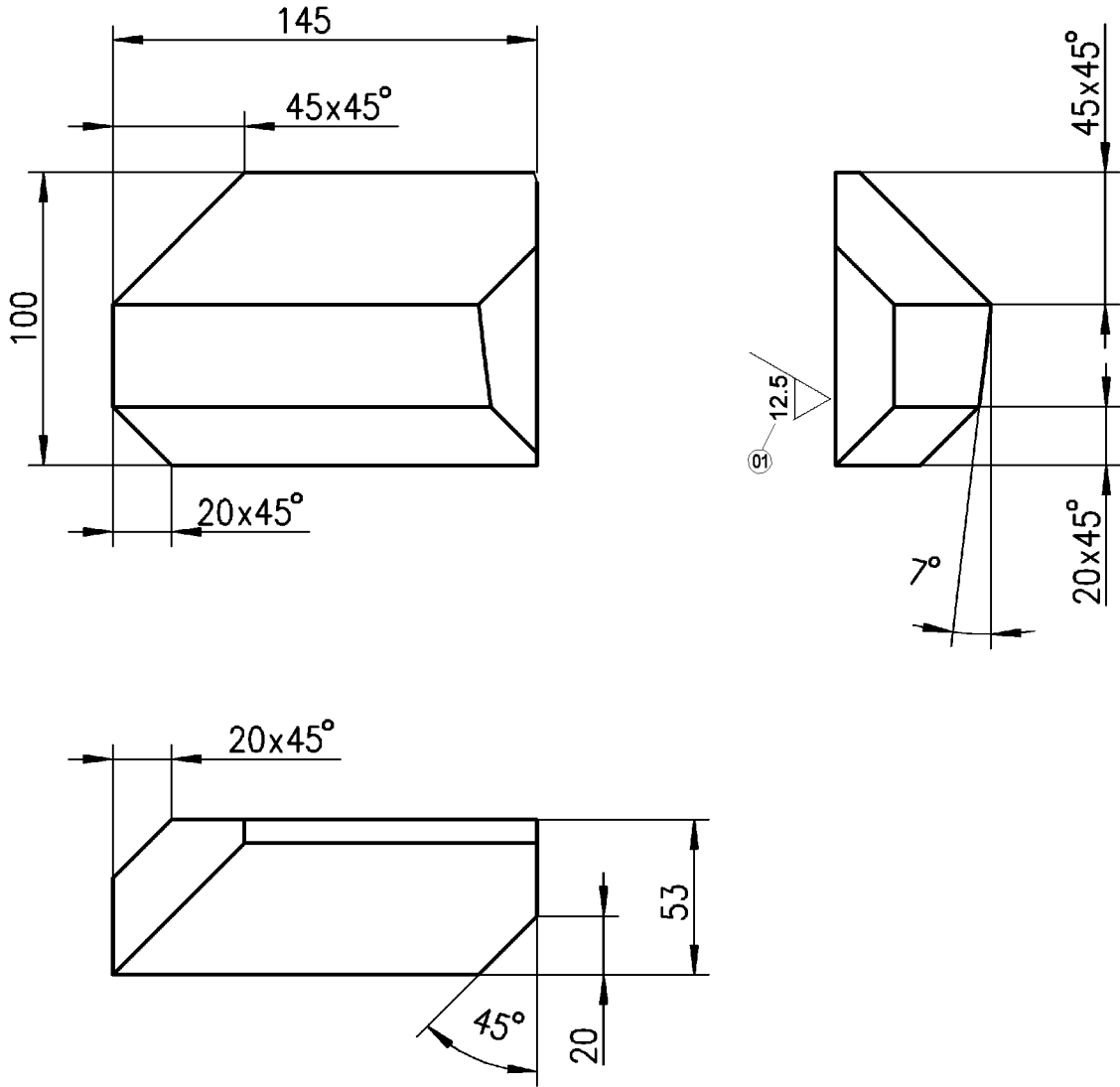
No. OF SHEETS 01

22 23 24

3-10742-58219

DRAWING No.

50/ ALL OVER EXCEPT OTHERWISE STATED



TECH.REQUIREMENT:-

1. IDENTIFICATION ACCORDING TO HW 0400397.

GRADE OF UNTOL.DIM		
M/CG.-C/M/F AA0230208		
WELDING-A/B/C/D / / AA0621104		
GAS CUTTING-'T3'AA0621101		

—GMS No./— C B O M			STATUS OF DRG U
9-10742-58000			
AGREED DEPT	NAME	SIGN	DATE
WT	H. VERMA	SD/-	28.07.12
REV	DATE	ALTERED	MONIKA
01	16.01.13	CHECKED	DINESH

TYPE OF PRODUCT
OR
NAME OF CUSTOMER/PROJECT

STEAM TURBINE



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR 73 74
DRN	POONAM	-SD/-	1-12-2011	
CHD	DINESH	-SD/-	2-12-2011	
APPD	D.K.RAY	-SD/-		

DEPT STE
CODE 4011



SCALE
1:2.5

WEIGHT (KG)
4.1

REF. TO ASSY. DRG.
9-10742-58000

ITEM No.
219
NO. OF ITEMS
75 77

TITLE :

PLATE

CARD CODE

DRAWING NO.
3-10742-58219

7
SHEET No. 01
No. OF SHEETS 01
22 23 24

AS PER
CVA NO. STE-13-F0028

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TIN NO.
PSK046L680

Ref.Drawing No>
DSPPG-0127036

Sign & Date

Inventory No.

FIRST ANGLE PROJECTION

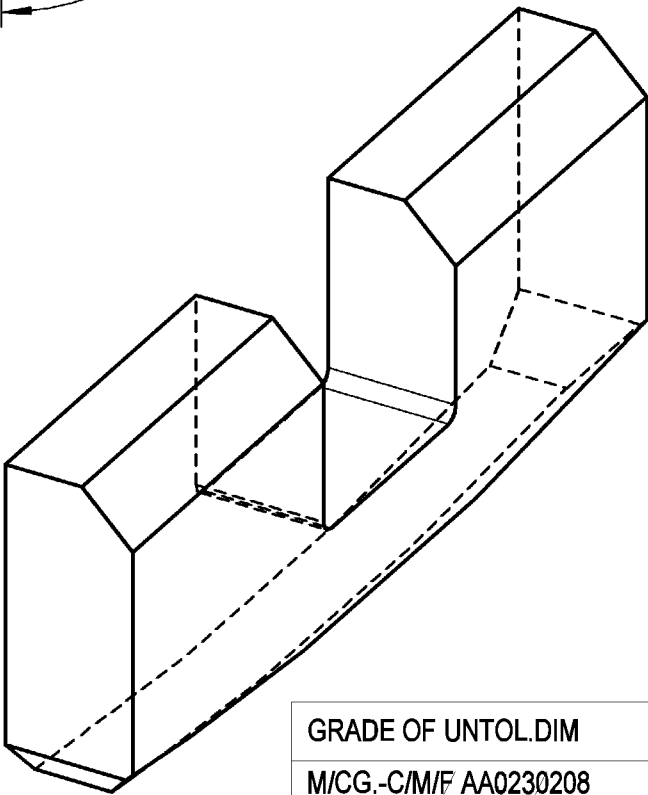
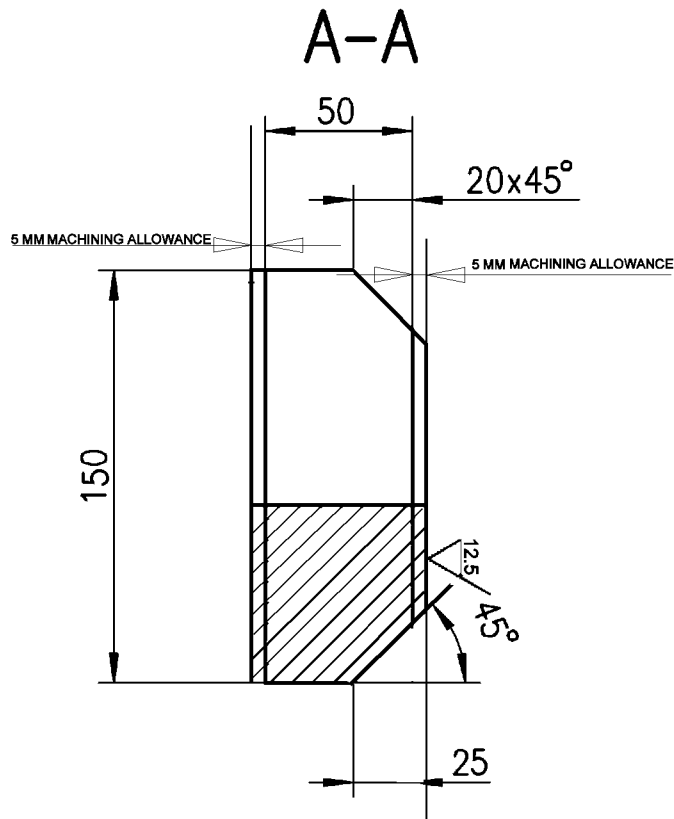
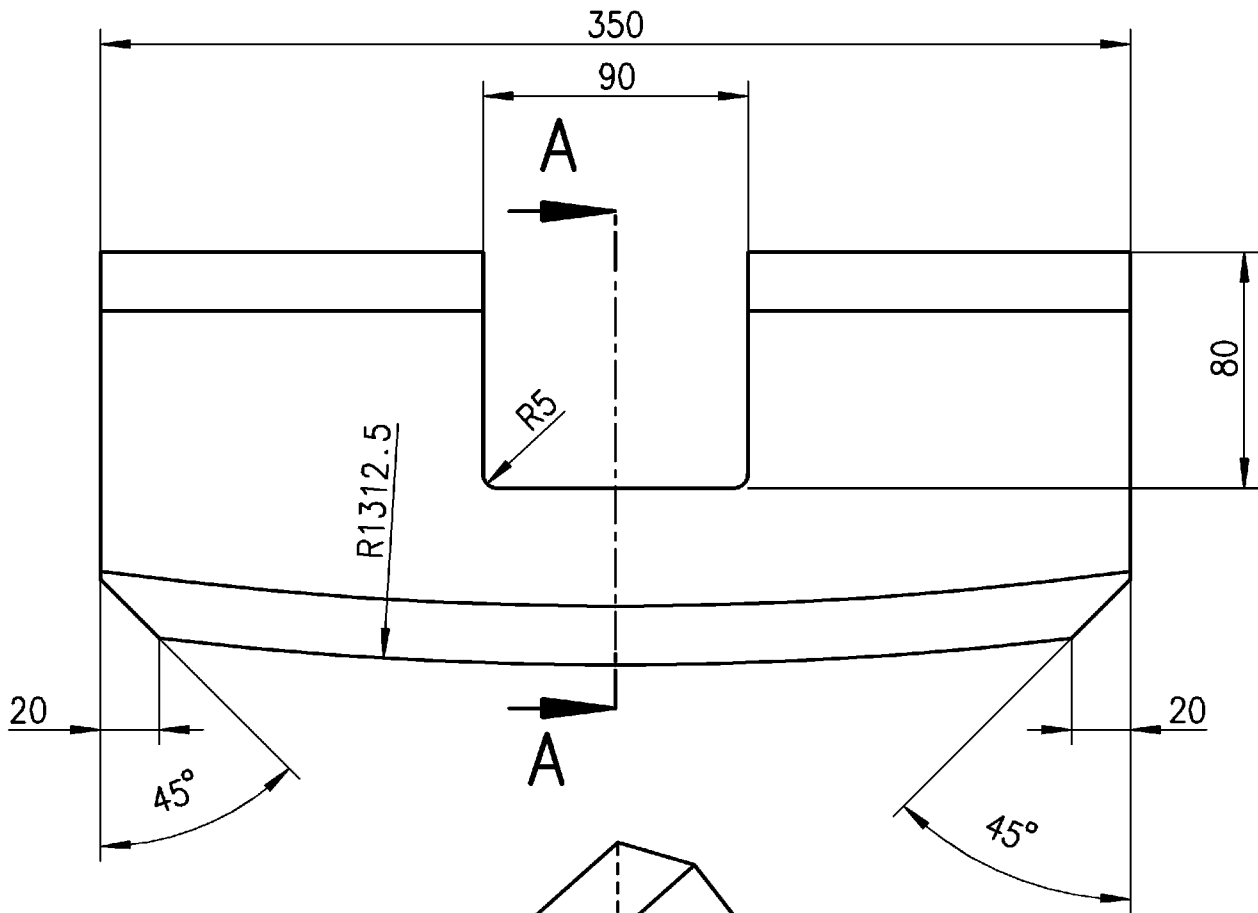
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FORM DG 38(B)

3-10742-58220

DRAWING No.

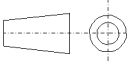
50/ ALL OVER EXCEPT OTHERWISE STATED



TECH.REQUIREMENT:-

1. IDENTIFICATION ACCORDING TO HW 0400397.

GMS No./ C B O M 9-10742-58000			STATUS OF DRG U
AGREED DEPT	NAME	SIGN	DATE
WT	H. VERMA	SD/-	28.07.12
REV	DATE	ALTERED	MANOJ
01	23.7.15	CHECKED	DINESH
WEIGHT 14.8 CHANGED TO 21.4 KG			
C/A NO.STE-15-F0245.			

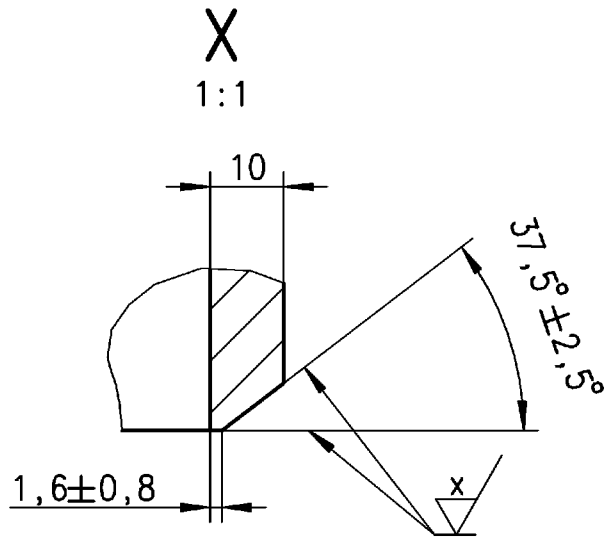
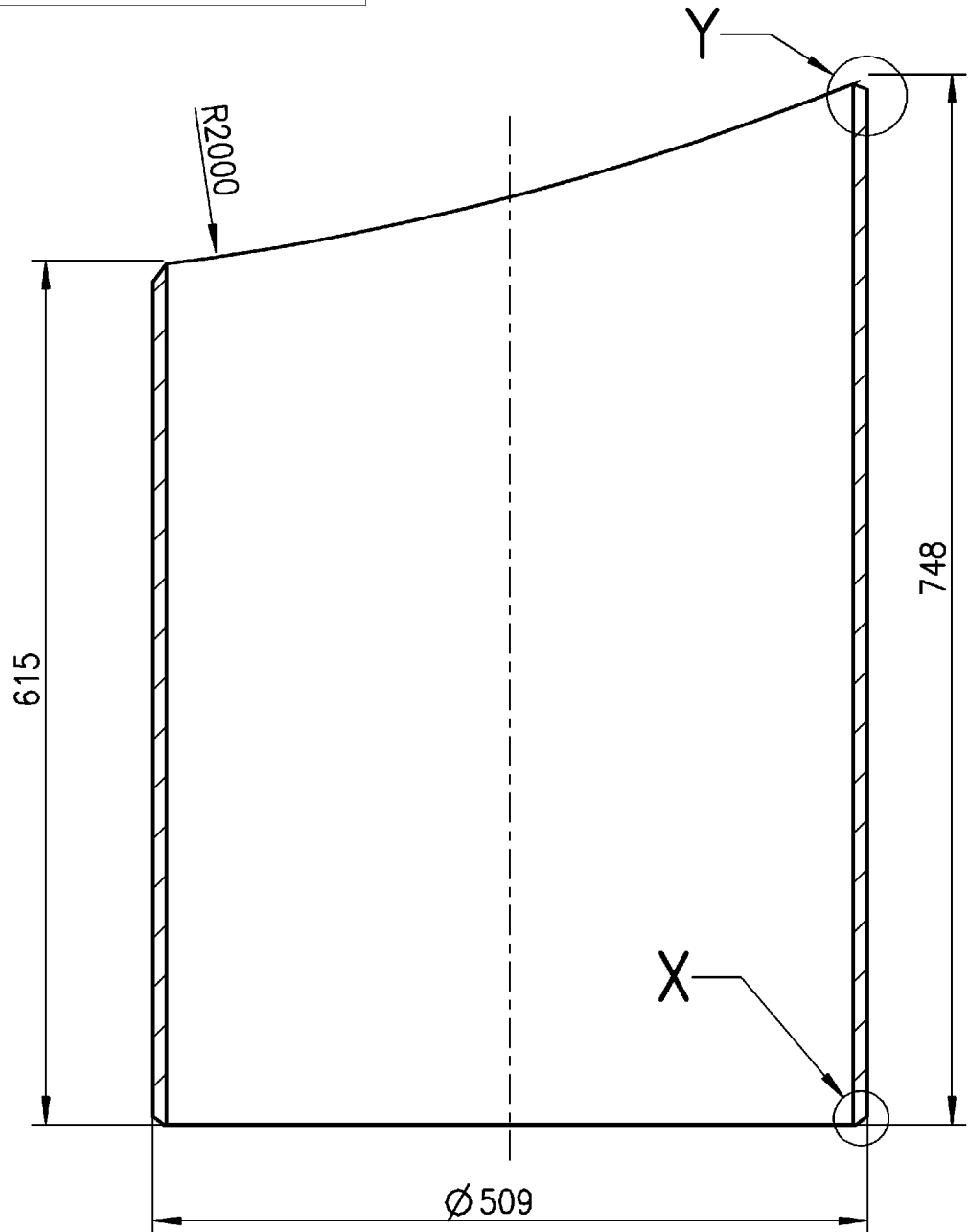
TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT				STEAM TURBINE					
 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR					NAME	SIGN	DATE	NO. OF VAR —	
				DRN	POONAM	-SD/-	1-12-2011		
				CHD	DINESH	-SD/-	2-12-2011	29.07.2012	73 74
				APPD	D.K.RAY	-SD/-			
DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.		ITEM	NO. OF	
CODE	4011		1:2.5	21.4	9-10742-58000		No.	ITEMS	
				01			220	75 77	
TITLE :				CARD CODE	DRAWING NO.			—	
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					7 22 23 24				
				SHEET No. 01		No. OF SHEETS 01			

SIZE A3

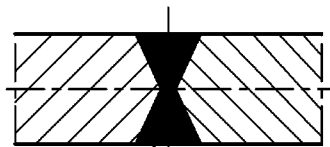
3-10742-58231

DRAWING No.

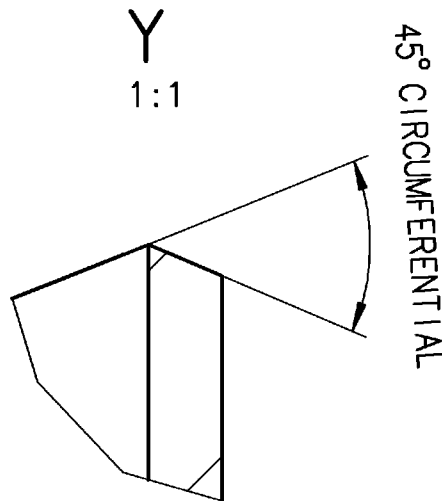
50 / ALL OVER EXCEPT OTHERWISE STATED



DEFINITION : FULL PENETRATION WELD



WELD EDGE PREPARATION
ACC.TO ISO 9692-1/ISO 9692-2



$\frac{x}{\sqrt{}} = \frac{12.5}{\sqrt{}}$

DIVIDED IN PARTS IF REQUIRED.
ADDITIONAL LONGITUDINAL WELD SEAMS SHALL BE MADE AS FULL PENETRATION WELD.
PERFORMANCE DEPENDING ON WELD PROCEDURE OF SUPPLIER /SHOP.

TECHNICAL REQUIREMENT:-

- WELD CLASSIFICATION GROUP ACC. TO HW0620099:BS/BK
- WELDING TEST SCOPE ACC.TO HW0850199. CSR-1.
- IDENTIFICATION ACCORDING TO HW 0400397.

GMS No./- C B O M 9-10742-58000				STATUS OF DRG U
AGREED DEPT	NAME	SIGN	DATE	
WT	H. VERMA	SD/-	28.07.12	

TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT
STEAM TURBINE



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR —
DRN	POONAM	-SD/-	1-12-2011	
CHD	DINESH	-SD/-	2-12-2011	
APPD	D.K.RAY	-SD/-		73 74

REV	DATE	ALTERED
		CHECKED

GRADE OF UNTOL.DIM
M/CG.-C/M/F AA0230208
WELDING-A/B/C/D / / AA0621104
GAS CUTTING-T3'AA0621101

REV	DATE	ALTERED
01	18.05.13	CHECKED

MONIKA
DINESH
SH2 SUPERSEDED THE OLD DRG.
UNDER THE SAME NO.
AS PER C/A NO. STE-13-F0201.

DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011	1:5	81.4	9-10742-58000	231	75 77
TITLE : PIPE			CARD CODE	DRAWING NO. 3-10742-58231		
				SHEET No. 1.	No. OF SHEETS 2	

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Ref.Drawing No> DSPPG-0127046
TIN NO. PSK046L691

Sign & Date
Inventory No.

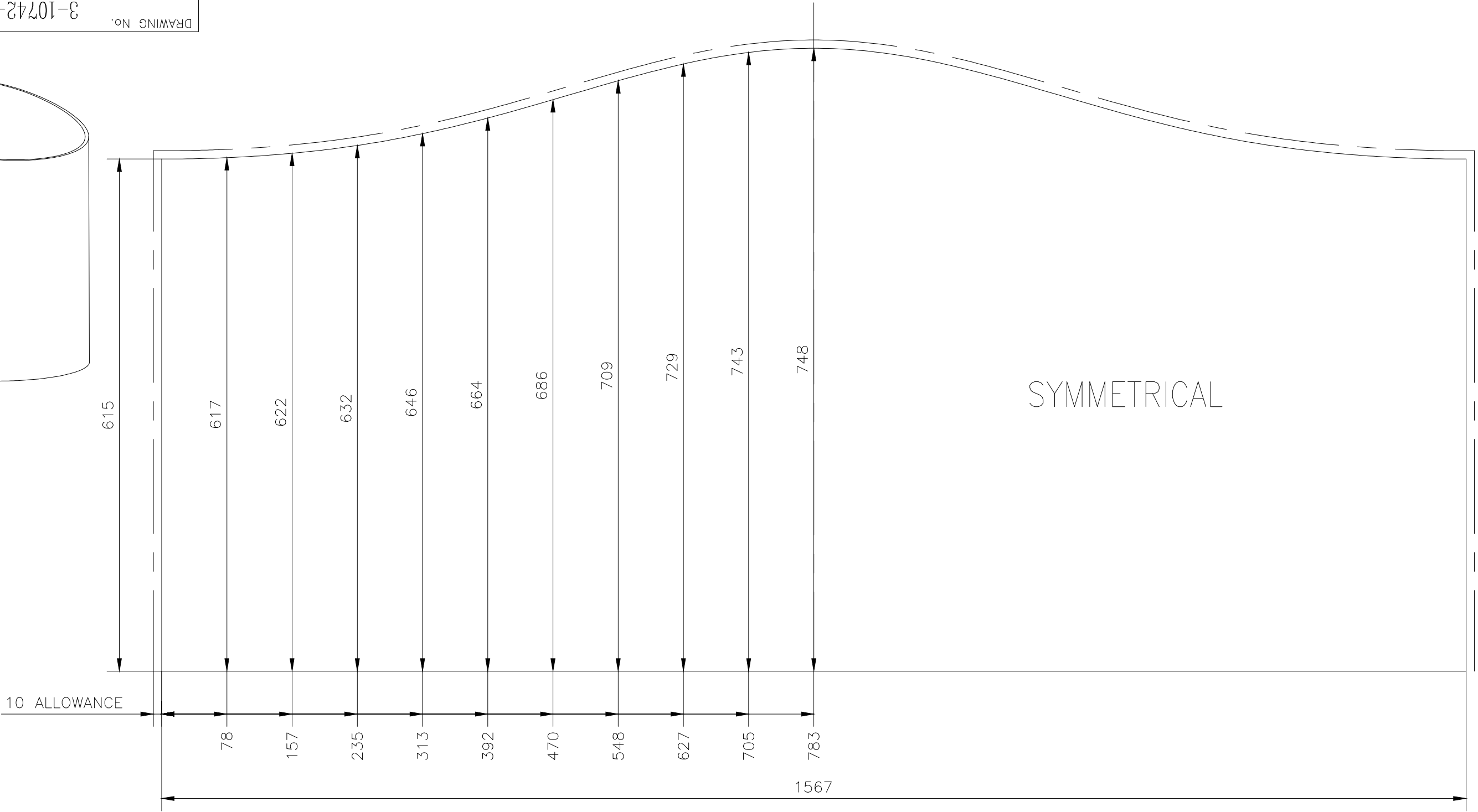
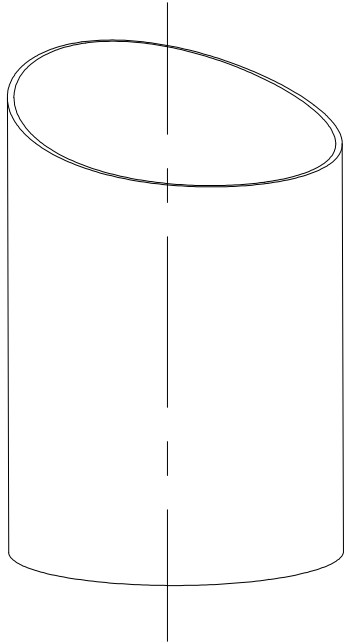
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

FORM DG 38(B)

3-10742-58231

DRAWING No.



DEVELOPMENT OF PIPE

GRADE OF UNTOL.DIM
M/CG.-Ø/M/Ø AA0230208
WELDING-Ø/B/Ø/Ø AA0621104
GAS CUTTING-'T3'AA0621101

GMS No. / C B O M		STATUS OF DRG	
9-10742-58000		U	
AGREED DEPT	NAME	SIGN	DATE
WT	H.VERMA	-SD/-	28.07.12
REV 01	DATE 18.05.13	ALTERED CHECKED	MONIKA DINESH

TYPE OF PRODUCT STEAM TURBINE
OR
NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR 73 74
DRN	AFZAL KHAN	-SD/-	18.07.2012	
CHD	DINESH	-SD/-	19.07.2012	
APPD	D.K.RAY	-SD/-	28.07.2012	

DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011		1: 5	81.4	9-10742-58000	231	75 77
TITLE : PIPE				CARD CODE	DRAWING NO.		
					3-10742-58231		
					SHEET No. 02		No. OF SHEETS 02

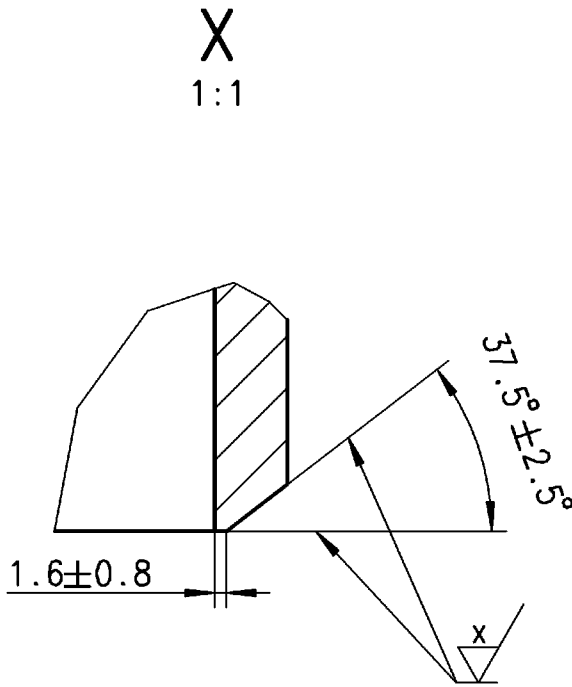
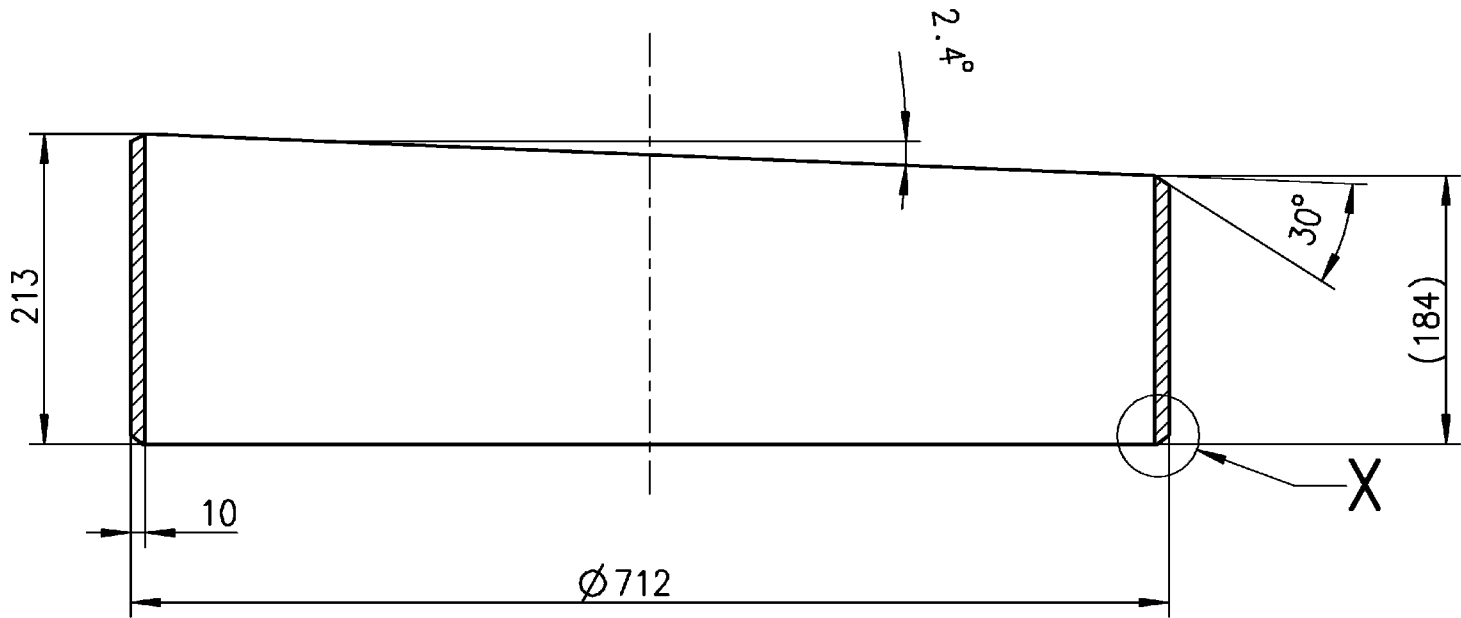
DATE UPDATED.
THIS DRG. SUPERSEDED THE OLD DRG. UNDER THE SAME NO.
AS PER C\A NO. STE-13-F0201.

SIZE A3

3-10742-58238

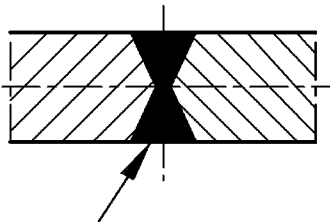
DRAWING No.

50/ ALL OVER EXCEPT OTHERWISE STATED



DIVIDED IN PARTS IF REQUIRED, ADDITIONAL LONGITUDINAL WELD SEAMS SHALL BE MADE AS FULL PENETRATION WELDS, PERFORMANCE DEPENDING ON WELD PROCEDURE OF SUPPLIER / SHOP.

DEFINITION : FULL PENETRATION WELD



WELD EDGE PREPARATION
ACC. TO ISO 9692-1/ISO 9692-2

$\frac{X}{1:1} = \frac{12.5}{1:1}$

TECHNICAL REQUIREMENT:-

1. WELD CLASSIFICATION GROUP ACC. TO HW0620099:BS/BK
2. WELDING TEST SCOPE ACC. TO HW0850199. CSR-1.
3. IDENTIFICATION ACCORDING TO HW 0400397.

GRADE OF UNTOL.DIM		
M/CG.-C/M/F AA0230208		
WELDING-A/B/C/D / / AA0621104		
GAS CUTTING-'T3'AA0621101		

GMS No./ C B O M 9-10742-58000				STATUS OF DRG 0
AGREED DEPT	NAME	SIGN	DATE	
WT	H. VERMA	SD/-	28.07.12	
REV	DATE	ALTERED	MANOJ	
01	06.04.13	CHECKED	DINESH	

TYPE OF PRODUCT OR
NAME OF CUSTOMER/PROJECT



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR 73 74
DRN	POONAM	-SD/-	1-12-2011	
CHD	DINESH	-SD/-	2-12-2011	
APPD	D.K.RAY	-SD/-	3-12-2011	

DEPT	STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS 75 77
CODE	4011	1:5	33.4	9-10742-58000	238	
TITLE :				CARD CODE	DRAWING NO.	
PIPE					3-10742-58238	
				7		22 23 24
				SHEET No.	1	No. OF SHEETS : 2

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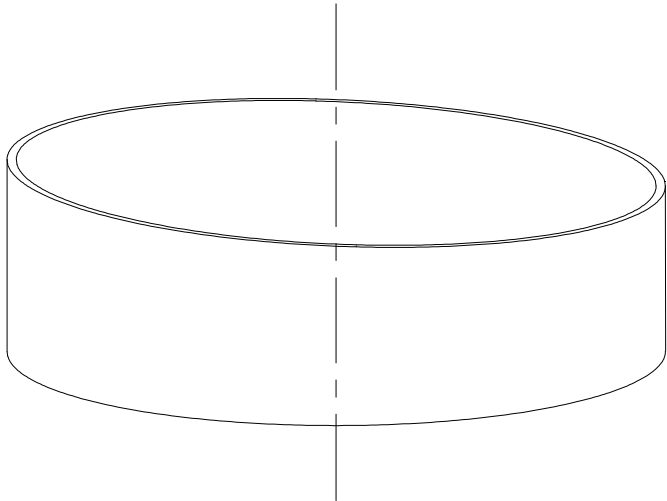
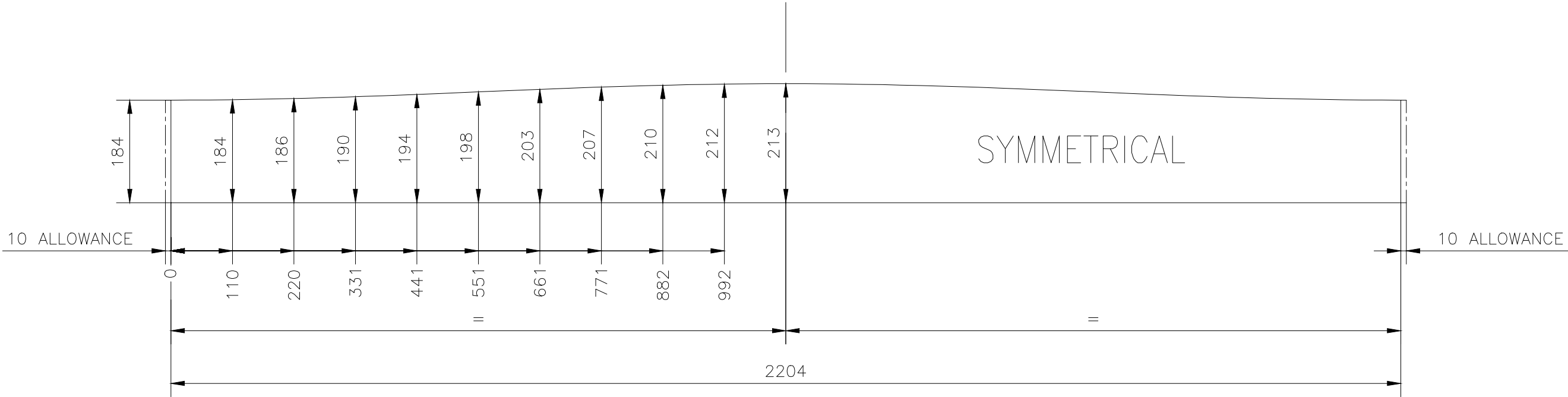
Inventory No	Ref.Drawing No> DSPPG-0127048	TIN NO. PSK046L694

3-10742-58238
DRAWING No.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

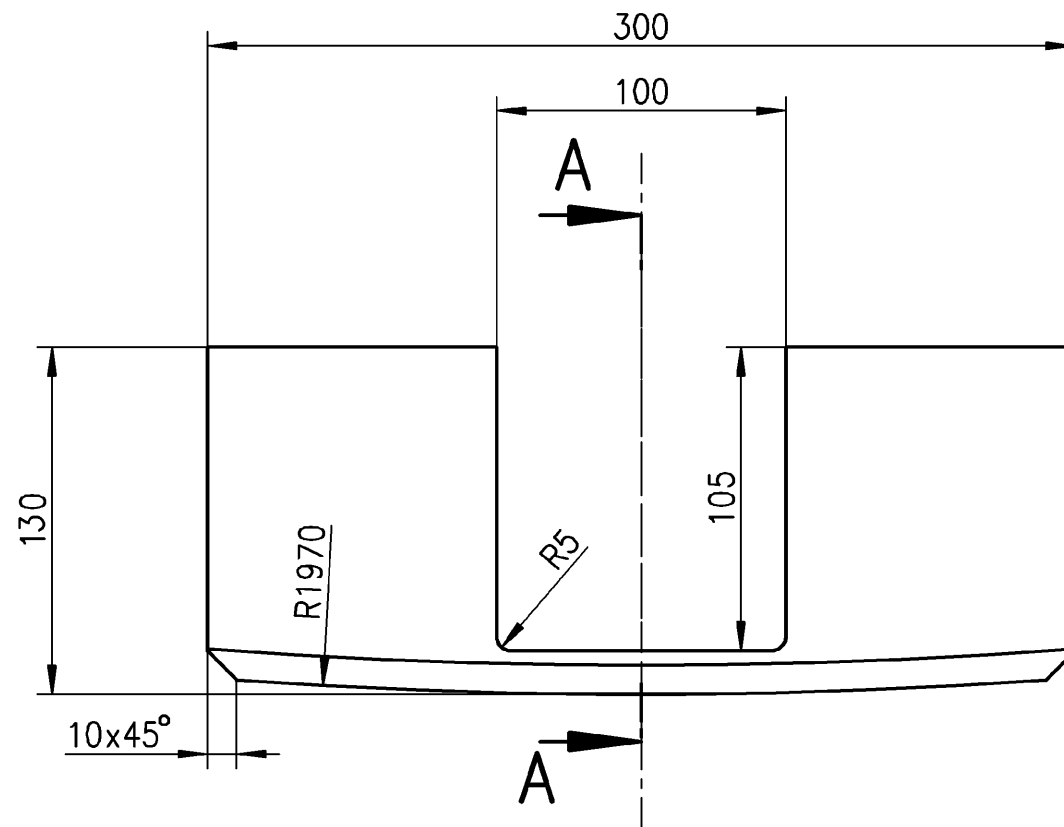
FORM DG 38(B)



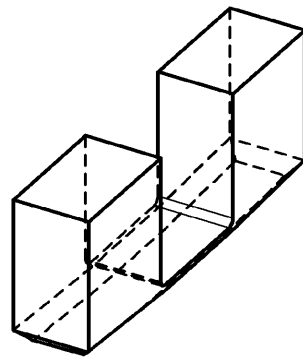
DEVELOPMENT OF PIPE

				-GMS No. / C B O M 9-10742-58000				STATUS OF DRG		TYPE OF PRODUCT STEAM TURBINE OR NAME OF CUSTOMER/PROJECT																					
GRADE OF UNTOL.DIM M/CG.-Ø/M/Ø AA0230208 WELDING-Ø/B/Ø/Ø AA0621104 GAS CUTTING-'T3'AA0621101				AGREED DEPT		NAME		SIGN		DATE		बी एच ई एल BHEL BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR								DRN		NAME		SIGN		DATE		NO. OF VAR — 73 74			
				WT		H.VERMA		-SD/-		28.07.12										AFZAL KHAN		-SD/-		18.07.2012							
																				CHD		DINESH		-SD/-		19.07.2012					
																				APPD		D.K.RAY		-SD/-		28.07.2012					
REV 02		DATE 18.05.13		ALTERED MONIKA		CHECKED DINESH		REV 01		DATE 05.4.13		ALTERED MANOJ		CHECKED DINESH		DEPT STE				SCALE 1: 8		WEIGHT (KG) 33.4		REF. TO ASSY. DRG. 9-10742-58000				ITEM No. 238		NO. OF ITEMS 75 77	
DATE UPDATED. THIS DRG. SUPERSEDED THE OLD DRG. UNDER THE SAME NO. AS PER C\A NO. STE-13-F0201.				CHANGES MADE AS PER CHANGE ADVICE. C/A NO. STE-12-F0504				TITLE : PIPE						CARD CODE 7		DRAWING NO. 3-10742-58238						22		23		24					
																SHEET No. 02				No. OF SHEETS 02											

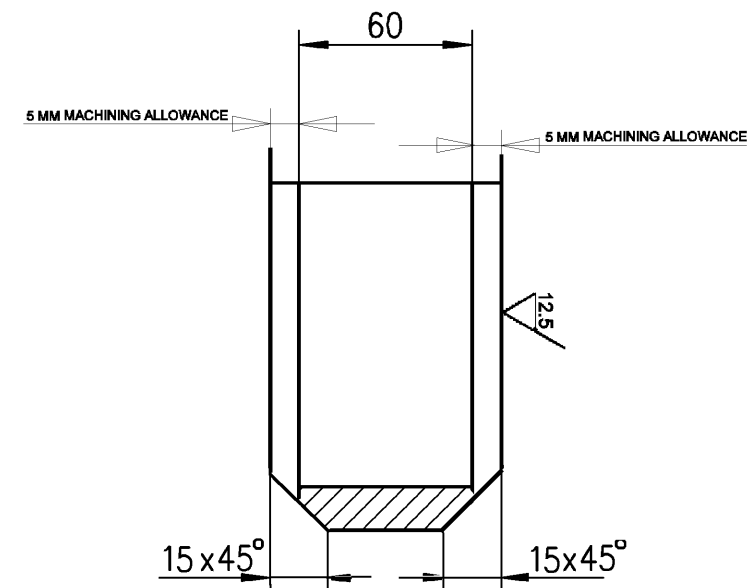
DRAWING NO.



1:5



A-A



50/ ✓ ALL OVER EXCEPT
OTHERWISE STATED

TECH.REQUIREMENT:-

1.IDENTIFICATION ACCORDING TO HW 0400397.

[illegible]

SIZE A3

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

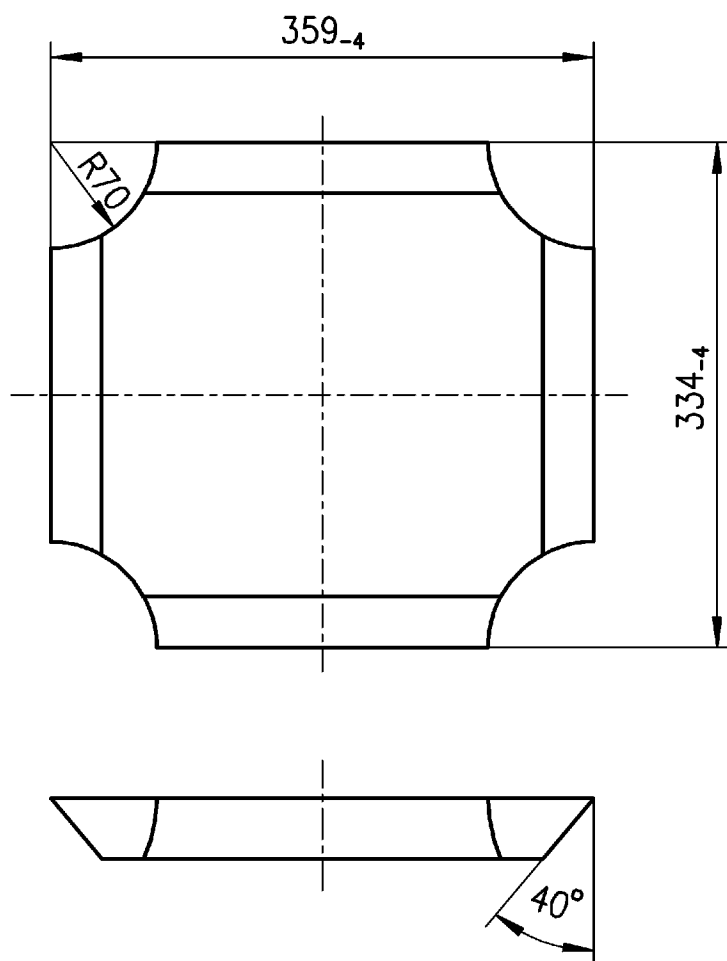
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REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./ C.B.D.M.- NO.		STATUS OF DRG U
		CHECKED			CHECKED	0-10741-58000		
ZONE			ZONE			AGREED DEPT	NAME	SIGN
						WT	H.VERMA	SD/-
								DATE
								04.08.12

GRADE OF UNTOL.DIM M/CG. & M/R -AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

50/ ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENT
(1) IDENTIFICATION ACCORDING TO HW0400397



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

DRN	NAME	SIGN	DATE	NO. OF VAR
CHD	ANOOP	SD/-	11.06.12	
APPD	DINESH	SD/-	11.06.12	
	D.K.RAY	SD/-	04.08.12	

DEPT STE	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE 4011	1:5	28.4	0-10741-58000	213	
TITLE :	CARD CODE	DRAWING NO.	4-10741-58213	22	23
PLATE					
		SHEET No. 01	No. OF SHEETS 01		

A4 SIZE

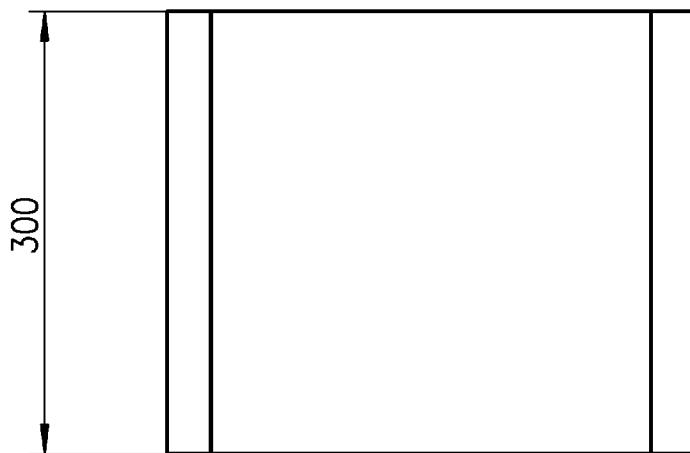
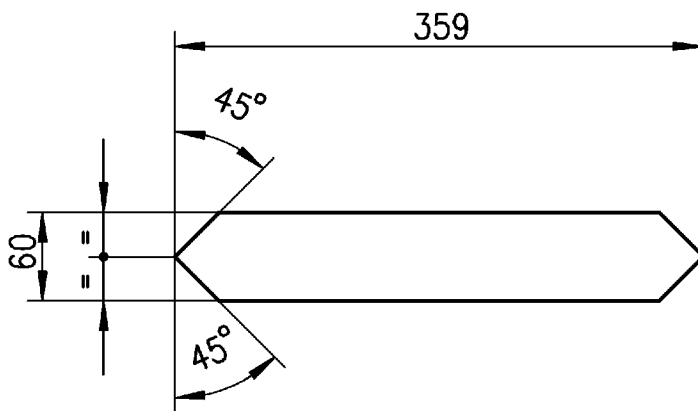
FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./C.B.O.M.- NO. 0-10741-58000	STATUS OF DRG U
		CHECKED			CHECKED		
ZONE			ZONE			AGREED DEPT	NAME
						WT	H.VERMA
						SD/-	DATE
							04.08.12

GRADE OF UNTOL.DIM M/CG. C/M/F -AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

50/ ALL OVER EXCEPT
OTHERWISE STATED



TECHNICAL REQUIREMENT

(1) IDENT(1)IFICATION ACCORDING TO HW0400397



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	ANOOP	SD/-	11.06.12	
CHD	DINESH	SD/-	11.06.12	
APPD	D.K.RAY	SD/-	04.08.12	

Inventory No.	DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS	
	CODE	4011		1:5	46.5	0-10741-58000	215		
	TITLE : PLATE				CARD CODE	DRAWING NO. 4-10741-58215		22 23 24	
					SHEET No.		01	No. OF SHEETS	01

A4 SIZE

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TIN NO.

Ref. Drawing No>
DSPPG-0102220

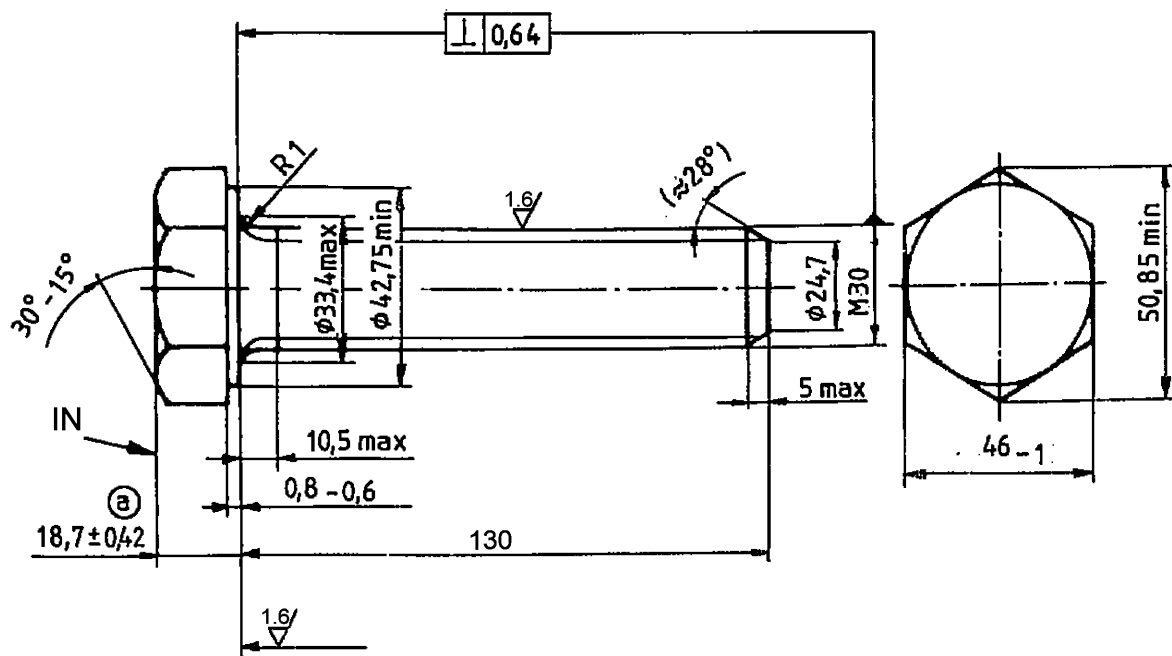
Sign & Date

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

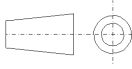
REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./ C.B.O.M. - NO. 9-10742-58000			STATUS OF DRG U		
		CHECKED			CHECKED						
ZONE				ZONE				AGREED DEPT	NAME	SIGN	DATE
								WT	H. VERMA	sd/-	28.07.12
GRADE OF UNTOL.DIM		M/CG. - AA0230208 m			WELDING-CLASS 'B' OF AA0621104			GAS CUTTING-TABLE 3 OF AA0621101			

12.5/ ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENT

1. IDENTIFICATION ACCORDING TO HW 0400397

TIN NO. PMOA58F89C76	Ref. Drawing No. A0152A9314	Sign & Date	 BHARAT HEAVY ELECTRICALS LTD. RANIPUR, HARDWAR	NAME	SIGN	DATE	NO. OF VAR
				DRN CHD APPD	POONAM DINESH D.K.RAY	sd/- sd/- sd/-	
Inventory No.	DEPT STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
	CODE4011		1:5	0.92	9-10742-58000	152	
TITLE : HEXAGON HEAD SCREW (M30X130)				CARD CODE	DRAWING NO. 4-10742-58152		
					SHEET No. 01		No. OF SHEETS 01

A4 SIZE

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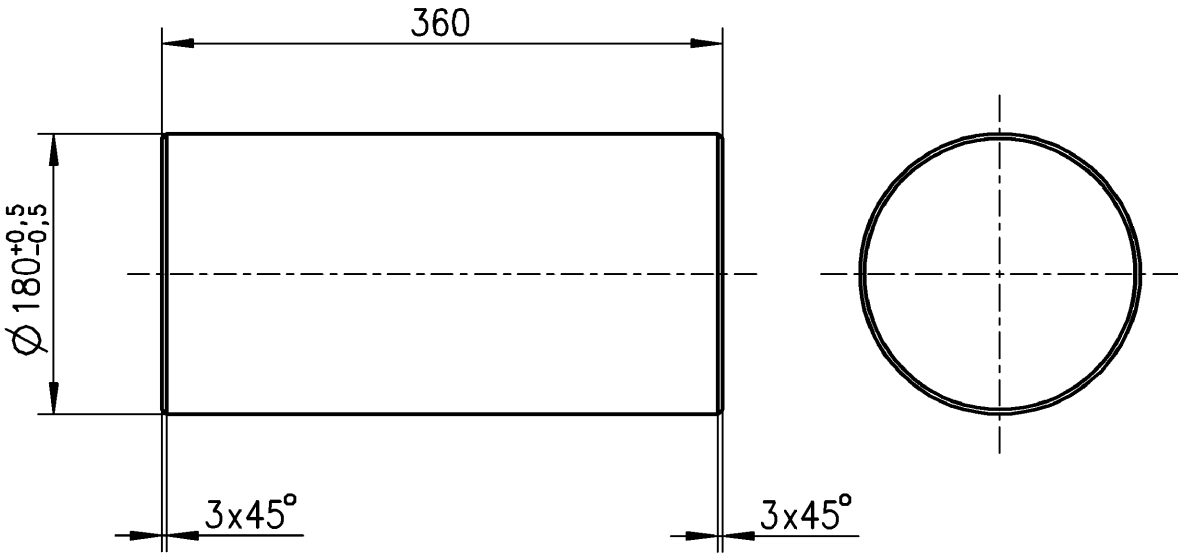
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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	GMS No./ C.B.O.M.- NO. 0-10762-58000			STATUS OF DRG U			
		CHECKED			CHECKED							
ZONE				ZONE					AGREED DEPT	NAME	SIGN	DATE
									WT	V.KUMAR	SD/-	10.12.11
GRADE OF UNTOL.DIM M/CG. C/M/F -AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101												

12.5/ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

1) IDENTIFICATION ACCORDING TO HW0400397



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	POONAM	SD/-	30.10.2011	
CHD	DINESH	SD/-	03.11.2011	
APPD	A.SHAH	SD/-	31.12.2011	

DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011		1:5	71.9	0-10762-58000	111	_____
TITLE :				CARD CODE	DRAWING NO.		22 23 24
ROUND					4-10762-58111		
					SHEET No.	01	No. OF SHEETS 01

A4 SIZE

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TIN NO.
PSK040U519

Ref.Drawing No>
DSPPG-0101601

Sign & Date

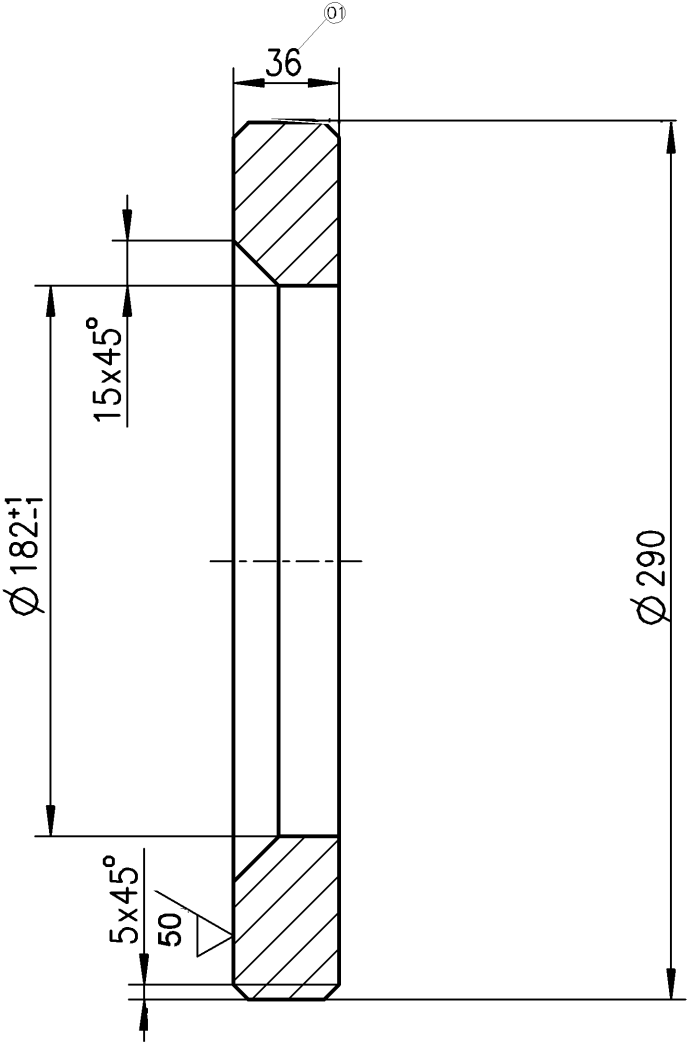
Inventory No.

FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm) FORM DG 39(B)

REV	DATE	ALTERED	REV	DATE	ALTERED	ANOOP	GMS No./C.B.O.M.- NO. 0-10762-58000			STATUS OF DRG U
		CHECKED			CHECKED					
ZONE			ZONE	IN MAIN VIEW MODIFIED . AS PER C/A NO. STE-13-F0019 .			AGREED DEPT	NAME	SIGN	DATE
							WT	V.KUMAR	SD/-	10.12.11
GRADE OF UNTOL.DIM M/CG. C/M/F-AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101										

50/ ALL OVER EXCEPT OTHERWISE STATED



TECHNICAL REQUIREMENTS:-

1) IDENTIFICATION ACCORDING TO HW0400397



BHARAT HEAVY ELECTRICALS LTD.
RANIPUR, HARDWAR

	NAME	SIGN	DATE	NO. OF VAR
DRN	POONAM	SD/-	30.10.2011	
CHD	DINESH	SD/-	03.11.2011	
APPD	A.SHAH	SD/-	31.12.2011	

DEPT	STE		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM No.	NO. OF ITEMS
CODE	4011		1:2.5	10.3	0-10762-58000	114,214	
TITLE :				CARD CODE	DRAWING NO.		
RING				7	4-10762-58114	22 23 24	
				SHEET No.	01	No. OF SHEETS	01

A4 SIZE

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TIN NO.

PSK040U521

Ref.Drawing No>

DSPPG-0101603

Sign & Date

Inventory No.