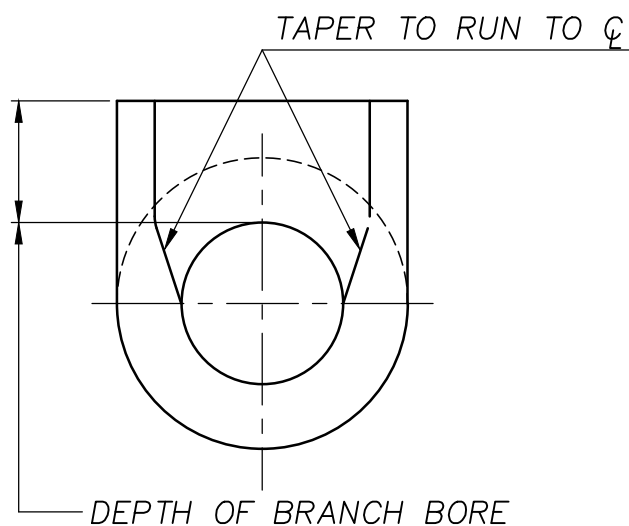
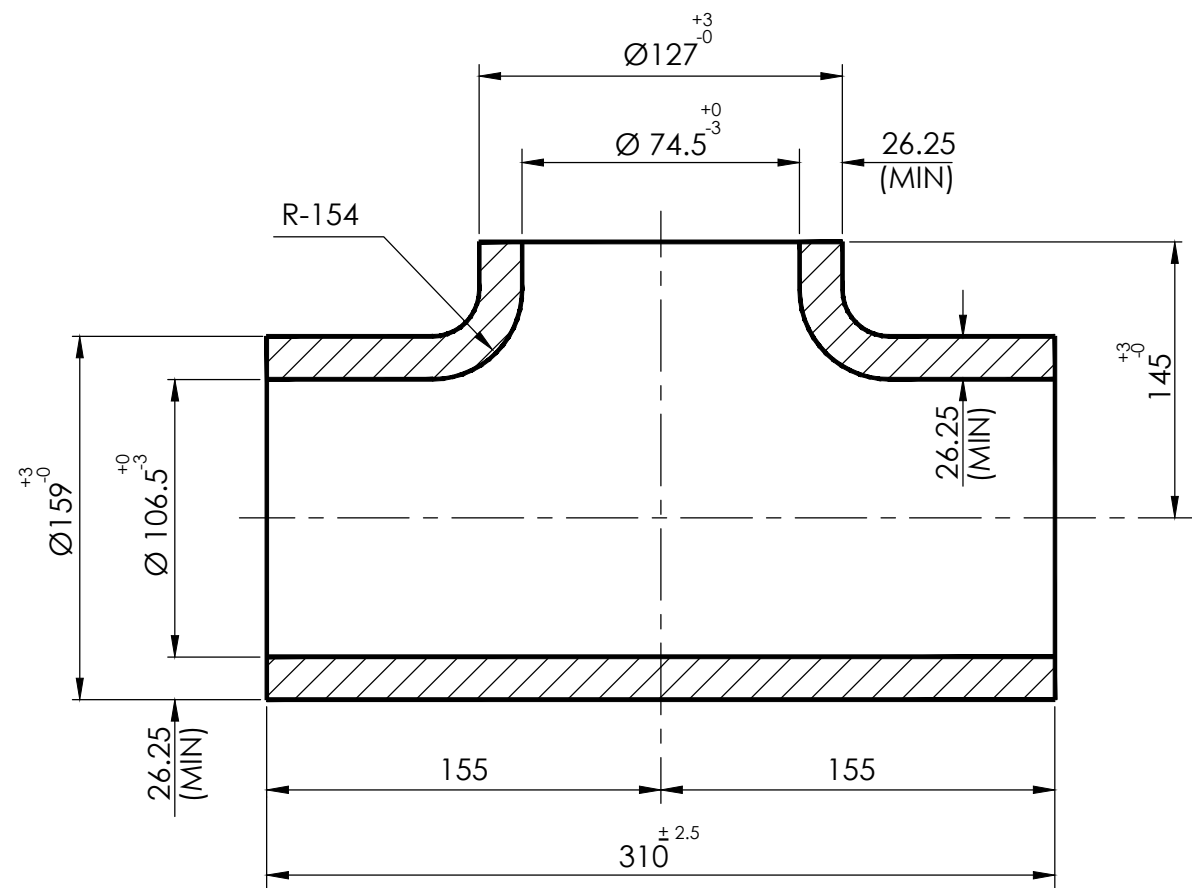


3-10-278-05435
DRAWING NO:

FOR TOLERANCES OF UNTOLERANCED
DIMENSIONS DURING MANUFACTURE
REFER PLANT STD.NO TP 023 0299



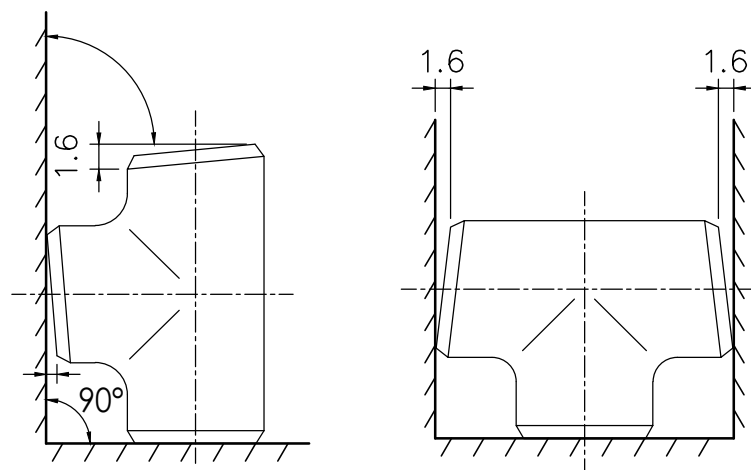
SECTION-AA

FITTING MATERIAL CODE: 92 105 005 0000

REV	DATE	ALTERED :	S.SARKAR	REV	DATE	ALTERED :	S.SARKAR
02	26.09.16	CHD & APPD:	R.B	01	27.04.15	CHD & APPD:	R.B
ZONE	WEIGHT CORRECTED.			ZONE	NOTE:-03 REVISED.		

NOTES:

01. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
02. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.
03. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING AS PER TDC.
04. FITTING SPECIFICATION : SB-564 UNS6617.
05. THE FORMED TEE SHALL BE SUPPLIED WITH PLAIN ENDS.
06. MAXIMUM THICKNESS SHALL NOT EXCEED $T_{(min)}/0.875$ AT ANY POINT



OFF-SQUARE TOLERANCES

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	QTY
		UNEQUAL TEE D159X30(NOM)/127X30(NOM)				SB 564 UNS6617			35.300	
					VAR NO	MATERIAL SPECN		DI	QUANTITY	

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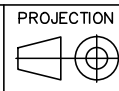
TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT



Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DEPT
PP
CODE
121

ALL
DIMENSIONS
ARE IN MM



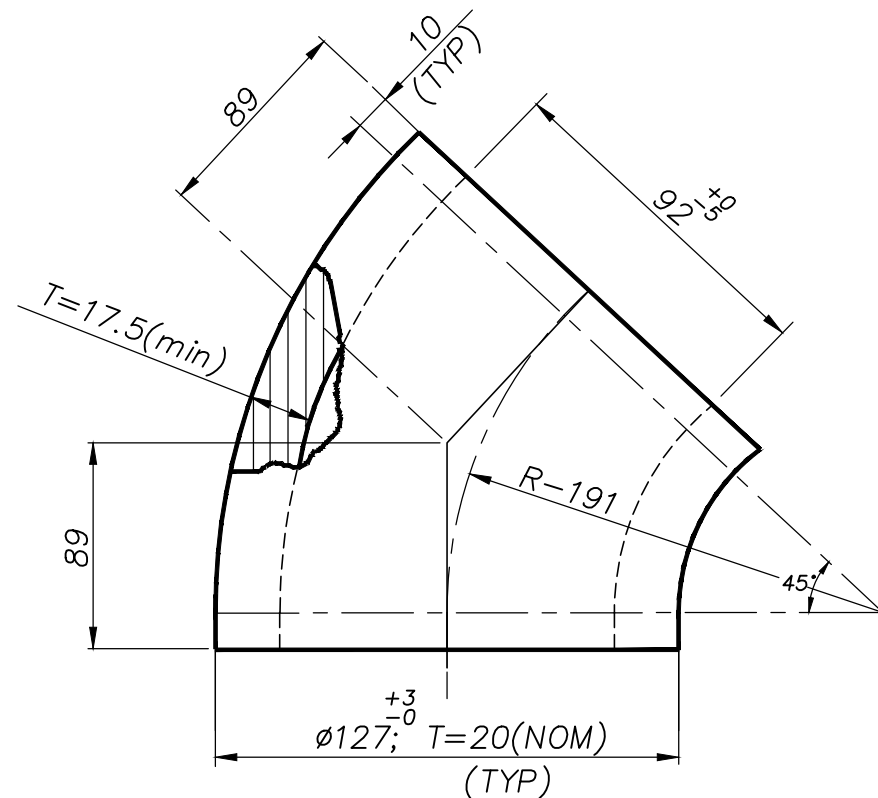
SCALE
NTS

WEIGHT (Kg)
35.300

REF TO ASSY / OLD DWG

DRAWING NO :
3-10-278-05435

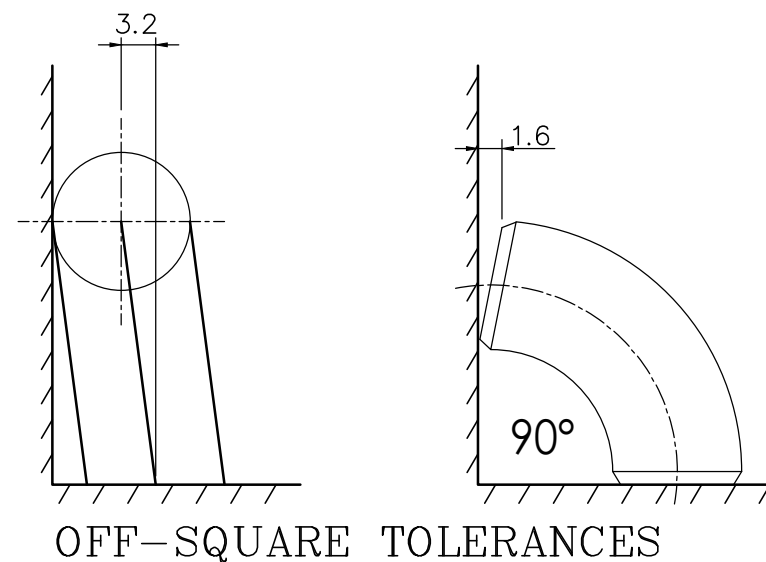
REV
02



FITTING MATERIAL CODE: 92 104 017 0000

NOTES:

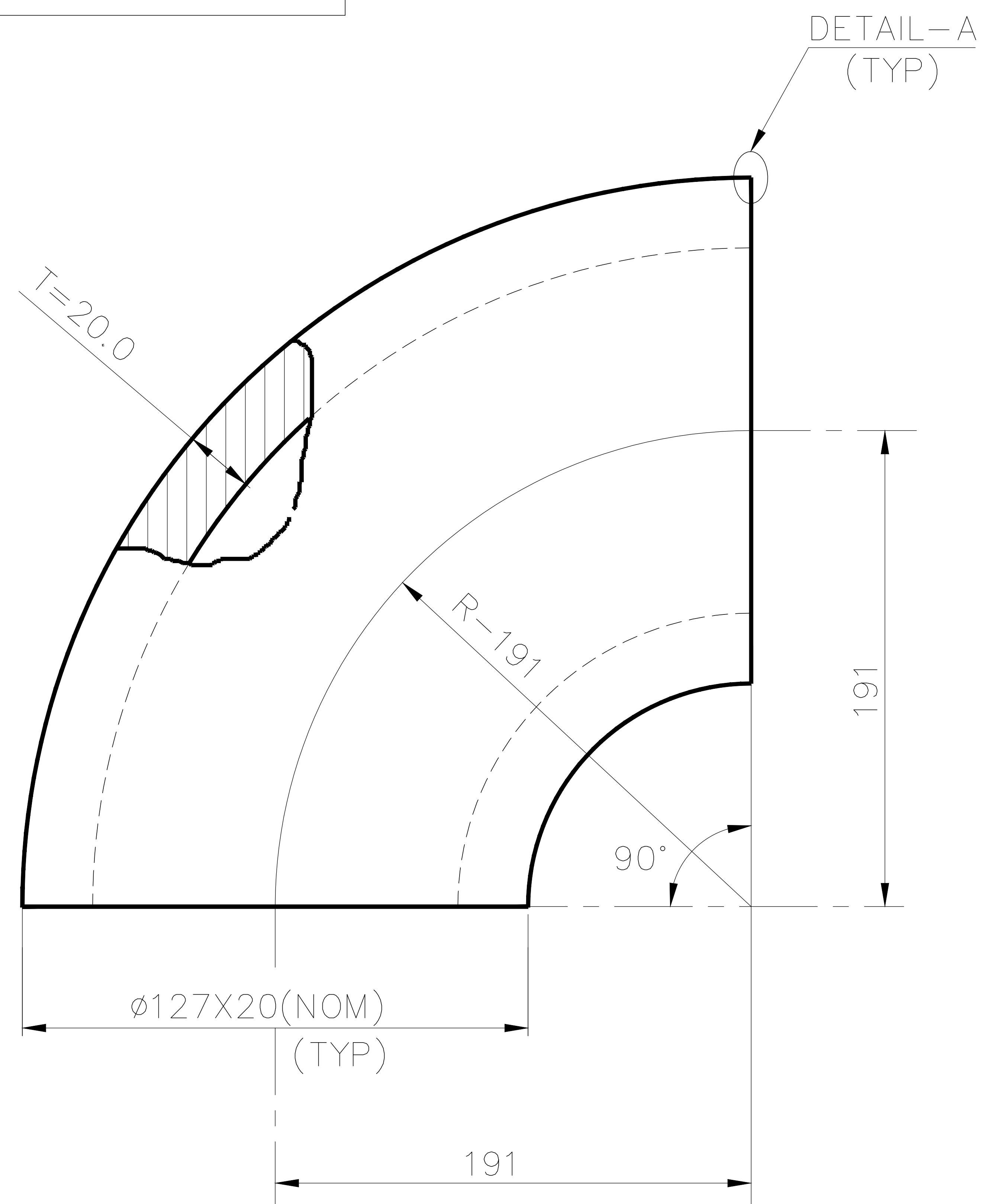
01. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
02. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS.
03. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING AS PER TDC.
04. FITTING SPECIFICATION : SB-564 UNS6617
05. THE FORMED ELBOW SHALL BE SUPPLIED WITH PLAIN ENDS.
06. MAXIMUM THICKNESS SHALL NOT EXCEED $T(\min)/0.875$ AT ANY POINT OF THE ELBOW.



		ELBOW D127X20(NOM)							8.700	
						SB 564 UNS6617				
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS
					VAR NO	MATERIAL SPECN		DI	QUANTITY	

REV	DATE	ALTERED :	S.SARKAR	REV	DATE	ALTERED :	S.SARKAR
02	26.09.16	CHD & APPD:	R.B	01	27.04.15	CHD & APPD:	R.B
ZONE	WEIGHT CORRECTED.			ZONE	NOTE: -03 REVISED.		

CAUTION: The information on this document is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.		TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT							
		 355-055		Bharat Heavy Electricals Ltd		DRN	NAME	SIGNATURE	DATE
				UNIT: HIGH PRESSURE BOILER PLANT		CHD	R.B		10.01.2013
				TIRUCHIRAPALLI - 620014		APPD	R.B		10.01.2013
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG			
CODE	121			NTS	02 8.700				
TITLE						DRAWING NO :		REV	
ELBOW 45 DEG RAW FORMING						3-12-174-10990		02	



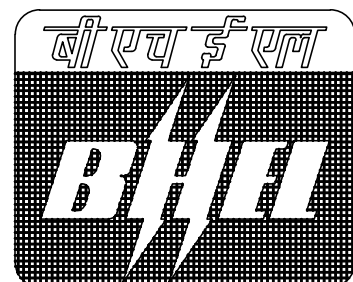
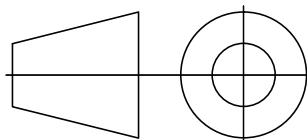
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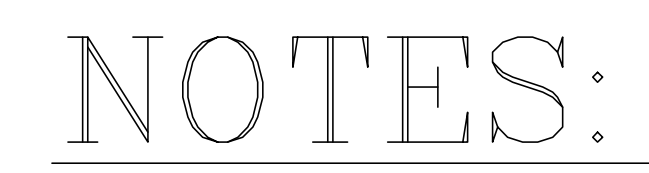
1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. NO THICKNESS GREATER THAN 152.4mm SHALL BE USED WITHOUT PRIOR BHEL APPROVAL.
6. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 17.5mm.
7. FITTING SPECIFICATION : N06617.

		90 DEL LR ELBOW D127.0X20.0			921040710000	A		16.340	
					N06617				
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT
					VAR NO	MATERIAL SPECN	DI		QUANTITY

REV 01	DATE	ALTERED :
		CHD & APPD:
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT								
 355-055		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014			DRN	NAME SUSHEEL	SIGNATURE	DATE 19.01.2015
					CHD	K. SRIDHARAN		19.01.2015
					APPD	K. PERIASAMY		19.01.2015
DEPT PP	ALL DIMENSIONS ARE IN MM		SCALE NTS	WEIGHT (Kg) 16.340	REF TO ASSY / OLD DWG			
CODE 121								
TITLE ELBOW-RAW FORMING					DRAWING NO : 3-24-800-03897			REV 00

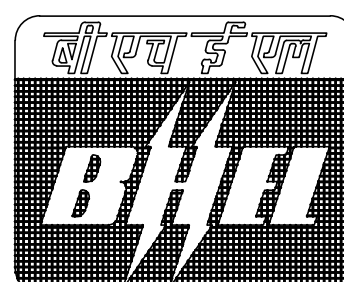
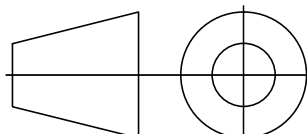


1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. NO THICKNESS GREATER THAN 152.4mm SHALL BE USED WITHOUT PRIOR BHEL APPROVAL.
6. THE THICKNESS OF THE TEE AT ANY POINT SHALL NOT BE LESS THAN 17.5mm.
7. FITTING SPECIFICATION : N06617.

		BW EQUAL TEE D127.0X20.0			921050090000	A		20.000		
					N06617					
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS
					VAR NO	MATERIAL SPECN		DI	QUANTITY	

REV 01	DATE	ALTERED :
		CHD & APPD:
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT							
 355-055		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI – 620014		DRN	NAME SUSHEEL	SIGNATURE	DATE 19.01.2015
				CHD	K. SRIDHARAN		19.01.2015
				APPD	K. PERIASAMY		19.01.2015
DEPT PP	ALL DIMENSIONS ARE IN MM		SCALE NTS	WEIGHT (Kg) 20.000	REF TO ASSY / OLD DWG		
CODE 121							
TITLE EQUAL TEE –RAW FORMING					DRAWING NO : 3-24-800-03898		REV 00

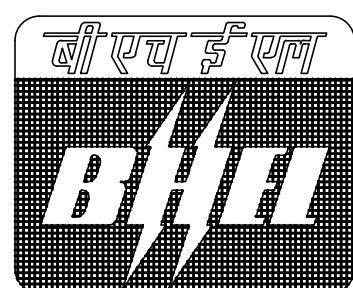
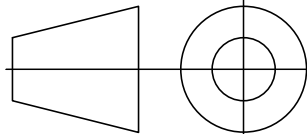


1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. NO THICKNESS GREATER THAN 152.4mm SHALL BE USED WITHOUT PRIOR BHEL APPROVAL.
6. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 17.5mm.
7. FITTING SPECIFICATION : N06617.

		90 DEL LR ELBOW D168.3X20.0			921040720000	A		27.150	
					N06617				
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT
					VAR NO	MATERIAL SPECN	DI	QUANTITY	CS

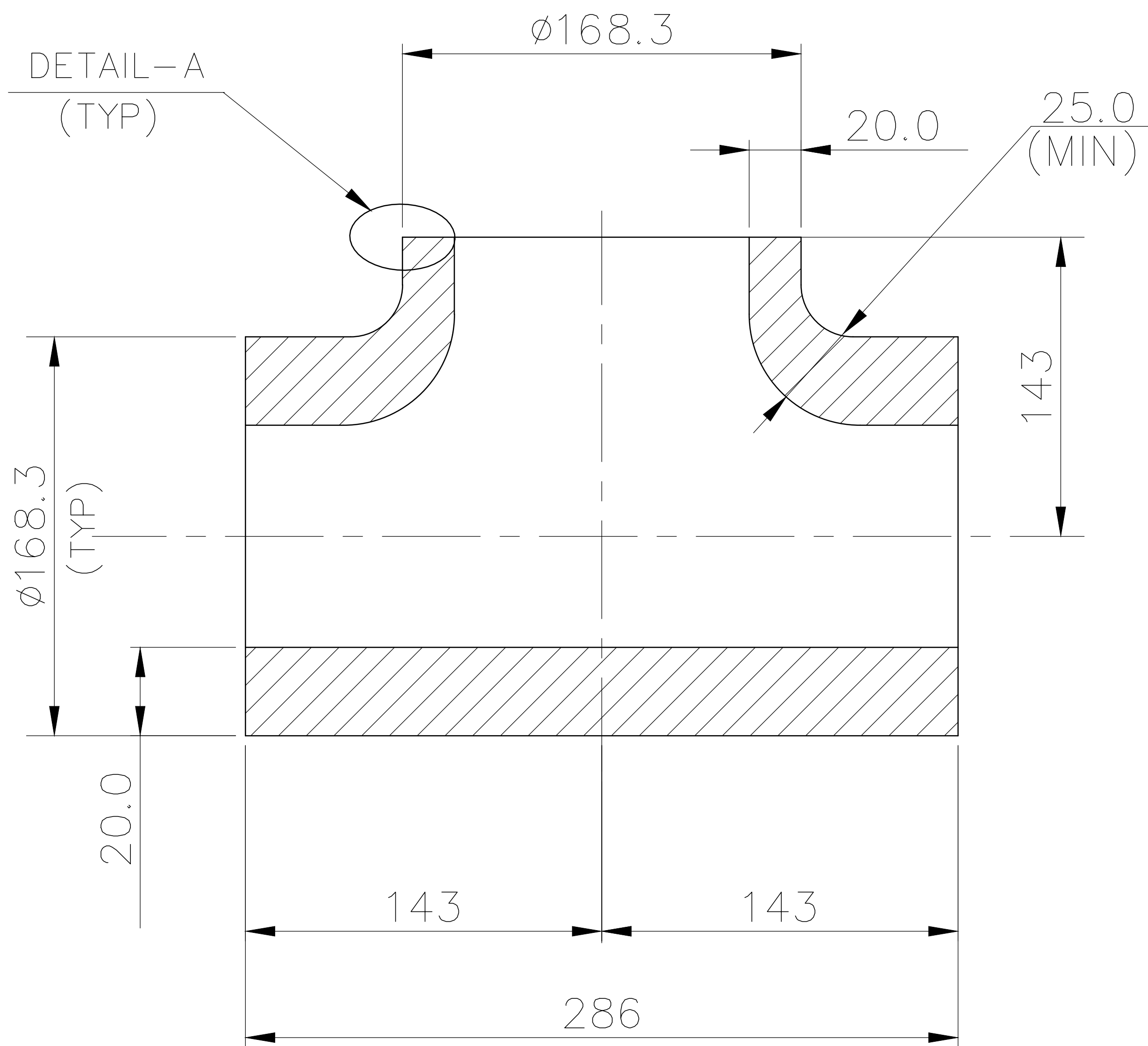
REV 01	DATE	ALTERED :
		CHD & APPD:
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT							
 355-055		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI – 620014		DRN CHD APPD	NAME SUSHEEL K. SRIDHARAN K. PERIASAMY	SIGNATURE	DATE 27.01.2015 27.01.2015 27.01.2015
DEPT PP	ALL DIMENSIONS ARE IN MM		SCALE NTS	WEIGHT (Kg) 27.150	REF TO ASSY / OLD DWG		
CODE 121							
TITLE ELBOW—RAW FORMING					DRAWING NO : 3-24-800-03899		REV 00

00680-008-42-3

DRAWING NO.:



NOTES:

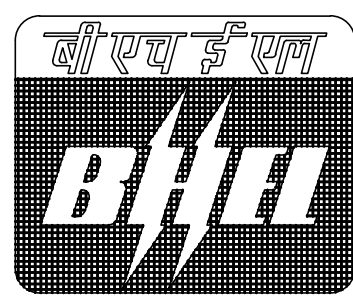
1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. NO THICKNESS GREATER THAN 152.4mm SHALL BE USED WITHOUT PRIOR BHEL APPROVAL.
6. THE THICKNESS OF THE TEE AT ANY POINT SHALL NOT BE LESS THAN 17.5mm.
7. FITTING SPECIFICATION : N06617.

		BW EQUAL TEE D168.3X20.0				921050100000	A		26.000	
						N06617				
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS
					VAR NO	MATERIAL SPECN		DI	QUANTITY	

REV	DATE	ALTERED :
01		CHD & APPD:
ZONE		

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TYPE OF PRODUCT
OR NAME OF
CUSTOMER/PROJECT

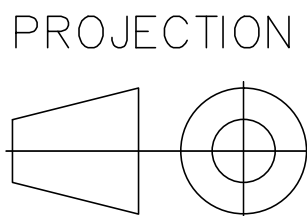


355-055

Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DEPT
PP
CODE
121

ALL
DIMENSIONS
ARE IN MM



PROJECTION

NTS

SCALE

WEIGHT (Kg)
26.000

DRN	NAME SUSHEEL	SIGNATURE	DATE 19.01.2015
CHD	K. SRIDHARAN		19.01.2015
APPD	K.PERIASAMY		19.01.2015

REF TO ASSY / OLD DWG

TITLE
EQUAL TEE -RAW FORMING

DRAWING NO :
3-24-800-0390000
REV

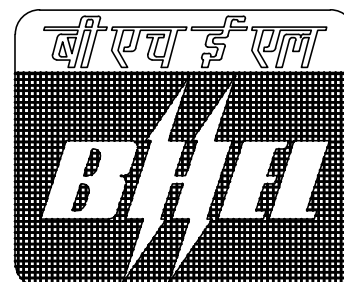
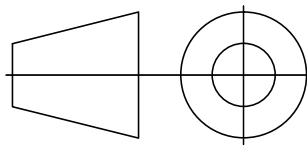


1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. FOR TOLERANCES REFER DRAWING NO. 4-03-000-00053.
3. SOLUTION ANNEALING IS TO BE DONE AFTER HOT FORMING. ALSO REFER TDC.
4. ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS IN MM.
5. NO THICKNESS GREATER THAN 152.4mm SHALL BE USED WITHOUT PRIOR BHEL APPROVAL.
6. THE THICKNESS OF THE ELBOW AT ANY POINT SHALL NOT BE LESS THAN 7.0mm.
7. FITTING SPECIFICATION : N06617.

		90 DEL LR ELBOW D127.0X8.0			921040730000	A		7.270		
					N06617					
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS
					VAR NO	MATERIAL SPECN		DI	QUANTITY	

REV 01	DATE	ALTERED :
		CHD & APPD:
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT							
 355-055		Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI – 620014		DRN CHD APPD	NAME SUSHEEL K.SRIDHARAN K. PERIASAMY	SIGNATURE 	DATE 27.01.2015 27.01.2015 27.01.2015
DEPT PP CODE 121	ALL DIMENSIONS ARE IN MM	PROJECTION 	SCALE NTS	WEIGHT (Kg) 7.270	REF TO ASSY / OLD DWG		
TITLE ELBOW—RAW FORMING					DRAWING NO : 3-24-800-03901		REV 00

REV