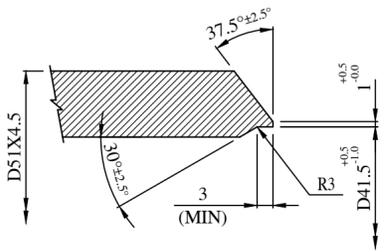


2-11-278-U8047
DRAWING NO.



DETAIL-A
FIG.4 OF IBR REG.125

NOTES:-

1. DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
2. DESIGN PRESSURE : 80 kg/cm²(g).
3. DESIGN TEMPERATURE : D51x4.5 - SA213TP347H - 465°C.
: D51x4.5 - SA 213 T22 - 435°C.
4. TO BE PRODUCED : 16 NOS. / BOILER.
5. RADIUS OF BENDS. C1=90 AND C2=30.
6. BOM IS PROVIDED FOR 1 QUANTITY.
7. FABRICATION TOLERANCE ARE DRG. NO. 2-03-000-U6012.
8. WELDING PROCEDURE ACC TO PROCESS SHEET.
9. HEAT TREATMENT AS PER IBR.
10. MATERIALS OF EQUIVALENT/SUPERIOR SPECIFICATION & HIGHER THICKNESS ARE ACCEPTABLE FOR ALL ITEMS.
11. WELDING OF FLEXIBLE CONNECTORS AS PER 3-03-000-U6013.
12. WELDING OF TIE LUGS AS PER D-1 OF DRG. NO. 0-03-000-U6005.
13. WELDING OF LIFTING LUGS AS PER DRG. NO. 6112-4020.
14. END CAPS SHALL BE PROVIDED TO THE ENDS OF COIL ASSY. BEFORE DISPATCH.
15. MIN. THICKNESS OF BENT TUBE AT ANY CROSS SECTION FOR SIZE OD 51x4.5 mm - SA213TP347H IS 3.0 mm & FOR BENT TUBE AT ANY CROSS SECTION FOR SIZE OD 51x4.5 mm - SA213 T22 IS 3.0 mm



PROJECT: M/S. NSPCL , BHILAI
 BOILER RATING: 2735 m²
 OPERATING CONDITIONS: 65 kg/cm²(g)&520°C
 LOCATION : BHILAI, M.P.
 OEM : BHEL, TRICHY
 OEM CUSTOMER NO: 0529, 0530 & 0531
 OEM REF. DRAWING NO: 1-11-278-00262
 IBR REGISTRATION NO: MP/3519, MP/3520 & MP/3521

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
					VAR NO	MATERIAL SPECN					
07	LIFTING LUG PL. 6X76X153	6112-4020-04			02	150422660000	C		0.55		
						SA387 GR22CL.2		02			
06	TIE LUG PL. 10X12X50	6112-0030-05			01	150422680000	C		0.05		
						SA387 GR22CL.2		30			
05	SUPPORT LUG 10X54X70	6112-1030/03			02	150119330000	C		0.19		
						SA240TY310S		01			
04	FLEXIBLE FEMALE CONNECTOR	6112-0032/02				92 005 431	C		0.04		
						SA 351GRCH20		76			
03	FLEXIBLE MALE CONNECTOR	6112-0032/02				92 005 432	C		0.04		
						SA 351GRCH20		38			
02	SH. VERTICAL PLATEN COIL ASSY. CIRCUIT-02	2-11-278-U8049				151890790000	A		429.860		
						SA 213 T22		01			
01	SH. VERTICAL PLATEN COIL ASSY. CIRCUIT-01	2-11-278-U8048				154522140001	A		443.250		
						SA213TP347H		01			

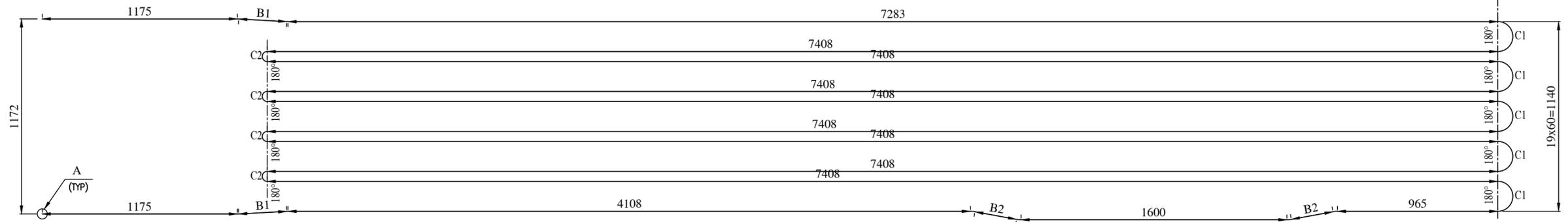
SPARE ORDER

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		PROJECT : NSPCL - BHILAI BOILER SPARES MAKER NO. : NSPCL Drg No: 1120-026-PVM-C-040				
	Bharat Heavy Electricals Ltd UNIT: HEAVY PLATES & VESSELS PLANT VISAKHAPATNAM-530012		DRN	RAJU	DATE	05.07.2025	
			CHD	KRANTHI KISHORE		07.07.2025	
			APPD	K.TARAKESH		09.07.2025	
DEPT	HTE	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (kg)	REF TO ASSY/OLD DWG	
CODE	320			N.T.S	880.460	1-11-278-00262	
TITLE						DRAWING NO :	REV
SH. VERTICAL PLATEN COIL ASSY. WITH ATTACHMENTS						2-11-278-U8047	01

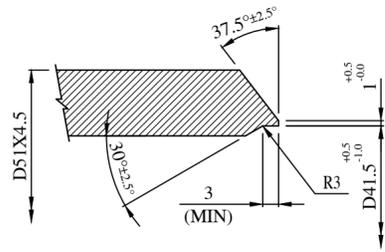
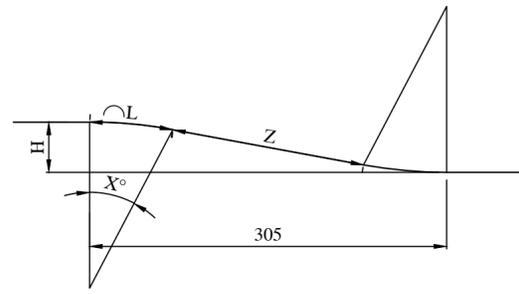
01		NOTE 15 ADDED	RAJU	K.K	K.T
REV NO.	ZONE	BRIEF RECORD OF REVISIONS	PPD.	CHD.	APPD.

FORM NO. 04E/2

DRAWING NO. 2-11-278-U8048



PROJECT: M/S. NSPCL , BHILAI
 BOILER RATING: 2735 m²
 OPERATING CONDITIONS: 65 kg/cm²(g)&520°C
 LOCATION : BHILAI, M.P.
 OEM : BHEL, TRICHY
 OEM CUSTOMER NO: 0529, 0530 & 0531
 OEM REF. DRAWING NO: 2-11-278-00726
 IBR REGISTRATION NO: MP/3519, MP/3520 & MP/3521



DETAIL-A
 FIG.4 OF IBR REG.125

R=151		ROTARY BENDS			
	B1	B2		C1	C2
H	16	51	R	90	30
X	3'6"	10'22"	S	283	94
Z	289	255			
L	8	27.5			
TOTAL LENGTH	305	310			

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS	ZONE
VAR NO								DI	QUANTITY		
		TUBE D51X4.5; 78591 LONG.				154522140001 SA213TP347H	A		443.250		
									1		

NOTES:-

- DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
- DESIGN PRESSURE : 80 kg/cm²(g).
- DESIGN TEMPERATURE : D51X4.5 - SA213TP347H - 465°C.
: D51X4.5 - SA 213 T22 - 435°C.
- TO BE PRODUCED : 16 NOS. / BOILER.
- HEAT TREATMENT AS PER IBR.
- MATERIALS OF EQUIVALENT/SUPERIOR SPECIFICATION & HIGHER THICKNESS ARE ACCEPTABLE FOR ALL ITEMS.
- MIN. THICKNESS OF BENT TUBE AT ANY CROSS SECTION FOR SIZE OD 51x4.5 mm - SA213TP347H IS 3.0 mm & FOR BENT TUBE AT ANY CROSS SECTION FOR SIZE OD 51x4.5 mm - SA213 T22 IS 3.0 mm



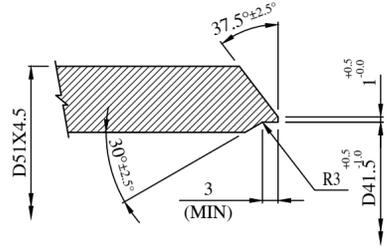
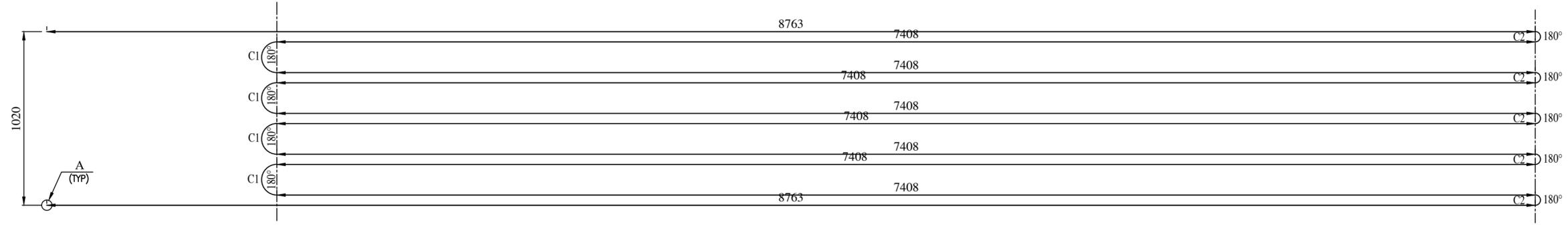
SPARE ORDER

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		PROJECT : NSPCL - BHILAI BOILER SPARES MAKER NO. :		
	Bharat Heavy Electricals Ltd UNIT: HEAVY PLATES & VESSELS PLANT VISAKHAPATNAM-530012		NAME	DATE	
			DRN	RAJU	05.07.2025
	DEPT	HTE	PROJECTION	SCALE	WEIGHT (Kg)
CODE	320	ALL DIMENSIONS ARE IN MM	N.T.S	443.250	2-11-278-00726
TITLE		DRAWING NO :		REV	
SH. VERTICAL PLATEN COIL CIRCUIT-01		2-11-278-U8048		01	

REV NO.	ZONE	BRIEF RECORD OF REVISIONS	PPD.	CHD.	APPD.
01		NOTE 7 ADDED	RAJU	K.K	K.T

FORM NO. 04E/2

2-11-278-U8049
DRAWING NO.



DETAIL-A
FIG.4 OF IBR REG.125

ROTARY BENDS

	C1	C2
R	90	30
S	283	94

NOTES:-

- DESIGN MANUFACTURE AND INSPECTION AS PER IBR.
- DESIGN PRESSURE : 80 kg/cm²(g).
- DESIGN TEMPERATURE : D51X4.5 - SA213TP347H - 465°C.
: D51X4.5 - SA 213 T22 - 435°C.
- TO BE PRODUCED : 16 NOS. / BOILER.
- HEAT TREATMENT AS PER IBR.
- MATERIALS OF EQUIVALENT/SUPERIOR SPECIFICATION & HIGHER THICKNESS ARE ACCEPTABLE FOR ALL ITEMS.
- MIN. THICKNESS OF BENT TUBE AT ANY CROSS SECTION FOR SIZE OD 51x4.5 mm - SA213TP347H IS 3.0 mm & FOR BENT TUBE AT ANY CROSS SECTION FOR SIZE OD 51x4.5 mm - SA213 T22 IS 3.0 mm

PROJECT: M/S. NSPCL , BHILAI
BOILER RATING: 2735 m²
OPERATING CONDITIONS: 65 kg/cm²(g)&520°C
LOCATION : BHILAI, M.P.
OEM : BHEL, TRICHY
OEM CUSTOMER NO: 0529, 0530 & 0531
OEM REF. DRAWING NO: 2-11-278-00727
IBR REGISTRATION NO: MP/3519, MP/3520 & MP/3521

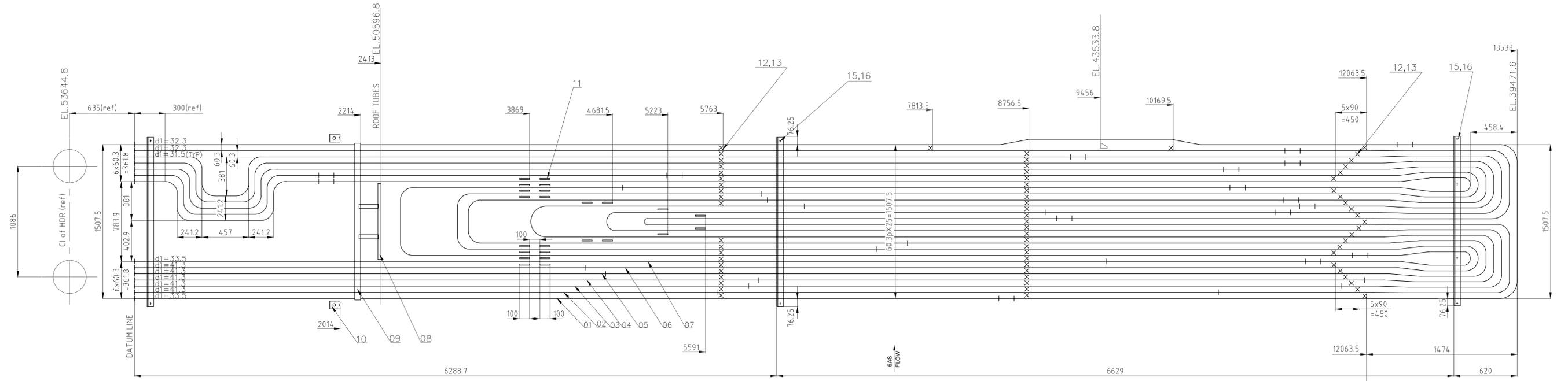
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	CS	ZONE
VAR NO	MATERIAL SPECN	DI	QUANTITY								
		TUBE D51X4.5; 78392 LONG.				151890790000 SA 213 T22	A		429.860 1		

SPARE ORDER

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		PROJECT : NSPCL - BHILAI BOILER SPARES MAKER NO. :					
	Bharat Heavy Electricals Ltd UNIT: HEAVY PLATES & VESSELS PLANT VISAKHAPATNAM-530012		NAME	DATE				
			DRN	RAJU	05.07.2025			
	CHD	KRANTHI KISHORE	07.07.2025					
APPD	K.TARAKESH	09.07.2025	REF TO ASSY/OLD DWG					
DEPT	HTE	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REV		
CODE	320			N.T.S	429.860	2-11-278-00727		
TITLE						DRAWING NO :		REV
SH. VERTICAL PLATEN COIL CIRCUIT-02						2-11-278-U8049		01

01		NOTE 7 ADDED	RAJU	K.K	K.T
REV NO.	ZONE	BRIEF RECORD OF REVISIONS	PPD.	CHD.	APPD.

FORM NO. 04E/72



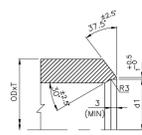
NOTES:

01. DESIGN MANUFACTURING AND INSPECTION AS PER IBR.
02. DESIGN PRESSURE: 175.8 KG/SQ.CM(g).
03. DESIGN TEMPERATURE AS PER TABLE.
04. HEAT TREATMENT AS PER IBR.
05. HYDRO TEST PRESSURE AT SHOP: 263.7 KG/SQ.CM(g)
06. FABRICATION TOLERANCE AS PER 2-03-000-00017.
07. FOR TIE LUG WELDING REF. BPS 0-03-000-00004.
08. FLEXIBLE CONNECTORS WELDING AS PER 3-03-000-00011.
09. HEAT SHIELD WELDING AS PER 2-11-278-05653.
10. SEAL BAND WELDING AS PER 2-11-278-14156.
11. LIFTING LUG WELDING AS PER BPS: 6112-4020.
12. ITEM NO 15,16 ARE MEANT FOR TRANSPORTATION PURPOSE ONLY AND TO BE REMOVED AT SITE BEFORE ERECTION.
13. TUBE BUTT WELD EDGE PREPARATION AS PER STYLE B/D.
14. FLEXIBLE CONNECTOR LOCATION CAN BE SHIFTED BY ± 100MM BASED ON LOCATION OF STBW JOINTS.
15. HEATING SURFACE AREA : 50 SQ.M PER ASSY.

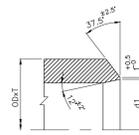
CUSTOMER TO NOTE:

1. CUSTOMER TO SUITABLY TRIM THE HEADER ENDS OF THE COIL SO THAT BUTT JOINTS ARE MADE BETWEEN 51 D.D TUBES. BUTT JOINT OF COILS WITH 54 O.D TUBES TO BE AVOIDED.
2. CUSTOMER TO CHECK AND APPROVE THE DRAWING CONSIDERING THE PRESENT SITE CONDITION.
3. CUSTOMER TO PROVIDE HIGH CROWN PLATE WIDTH INSTALLED AT SITE.

SL.NO	SIZE	MATERIAL	DESIGN TEMP°C
01	51x5.6	SA213TP347H	606
02	51x5.0	SA213TP347H	578
03	51x9.6	SA213T22	567
04	51x8.8	SA213T11	537
05	51x7.1	SA213T11	520
06	51x6.6	SA213T11	509
07	51x5.0	SA213T11	470



DETAIL-B



DETAIL-D

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO VAR NO	MATERIAL CODE MATERIAL SPECN	UNIT A/C/P DI	UNIT WEIGHT QUANTITY	CSG	ZONE
	16	FLAT 50X6; 5RM				150080110000 IS2062Fe410WA		11.780 1		
	15	ISA 50X50XL; 5RM				150131560000 IS2062E250A		22.500 1		
	14	SUPPDR LUG	6112-2042-21			920131830000 SA 351 GR CH20		0.22 1		
	13	FLEXIBLE CONNECTOR (FEMALE)	6112-0032			920054310000 02 SA 351 GR CH20		0.04 138		
	12	FLEXIBLE CONNECTOR (MALE)	6112-0032			920054320000 01 SA 351 GR CH20		0.04 69		
	11	TIG LUG PL. 10X12X100	6112-0030			150422680000 03 SA 387 GR 22		0.10 24		
	10	LIFTING LUG	6112-4020-01			941820050000 SA 387 GR.22		0.55 2		
	09	ROOF SEAL BAND	2-11-278-14156			WELDMNT		25.060 1		
	08	HEAT SHIELD	3-11-278-05653			WELDMNT		2.870 1		
	07	CIRCUIT-07	2-SB-011-66383			WELDMNT		401.367 01		
	06	CIRCUIT-06	2-SB-011-66382			WELDMNT		402.892 01		
	05	CIRCUIT-05	2-SB-011-66381			WELDMNT		399.415 01		
	04	CIRCUIT-04	2-SB-011-66380			WELDMNT		395.000 01		
	03	CIRCUIT-03	2-SB-011-66379			WELDMNT		371.570 01		
	02	CIRCUIT-02	2-SB-011-66378			WELDMNT		363.700 01		
	01	CIRCUIT-01	2-SB-011-66377			WELDMNT		262.730 01		

REV	DATE	ALTERED :
01		CHD & APPD :

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT: CUST NO: 0259 Korba (West) TPS Unit 1 SO 73016314

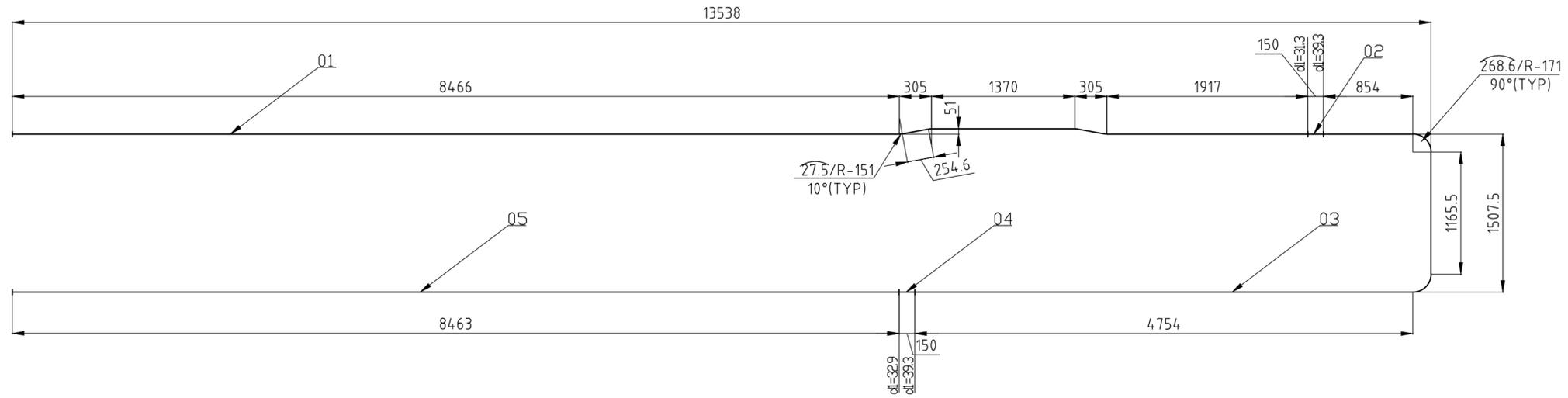
Bharat Heavy Electricals Ltd
UNIT: HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	T.DHANA	SIGNATURE	DATE
CHD	RAJAGOPALAN		28.02.2025
APPD	RAJAGOPALAN		28.02.2025

DEPT: PP ALL DIMENSIONS ARE IN MM PROJECTION: N.T.S. SCALE: WEIGHT (Kg): 2671.884 REF TO ASSY / OLD DWG

TITLE: PLATEN SUPER HEATER ASSY DRAWING NO: 0-SB-011-60407 REV: 00





NOTES:

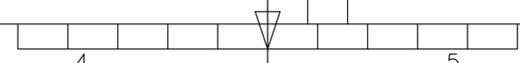
1. BUTT WELD EDGE PREPARATION AS PER STYLE B/D.
2. FOR DESIGN PRESSURE AND TEMP REFER ASSY. DRAWING.

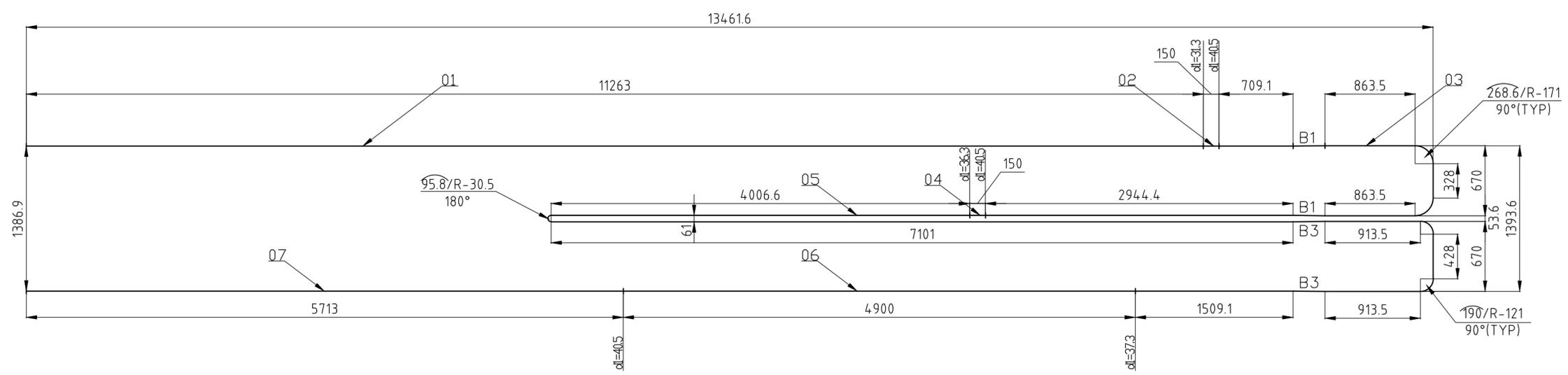
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
					VAR NO	MATERIAL SPECN	DI	QUANTITY			
	05	TUBE D51 X 8.8 8463 LONG				154880980000 SA213 T11	A		81.710 01		
	04	TUBE D51 X 10.0; 150 LONG				154520790001 SA213TP347H	A		1.700 01		
	03	TUBE D51 X 5.6 7310.7 LONG				154520730000 SA213TP347H	A		49.980 01		
	02	TUBE D51 X 10.0; 150 LONG				154520790001 SA213TP347H	A		1.700 01		
	01	TUBE D51 X 9.6 12372.2 LONG				154890980001 SA213 T22	A		127.643 01		

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

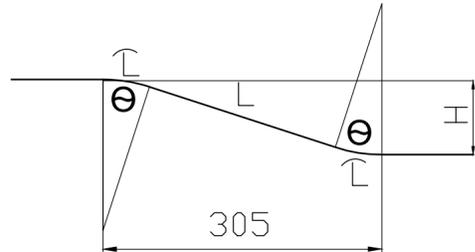
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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT							
	Bharat Heavy Electricals Ltd		DRN	T.DHANA	SIGNATURE	DATE	26.02.2025
	UNIT: HIGH PRESSURE BOILER PLANT		CHD	RAJAGOPALAN			26.02.2025
	TIRUCHIRAPALLI - 620014		APPD	RAJAGOPALAN			26.02.2025
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	
CODE	121			N.T.S.	262.733		
TITLE						DRAWING NO :	
CIRCUIT-01						2-SB-011-66377 00	





SI.NO	H	L	θ	\hat{L}	DL	R
B1	3.4	301.0	1°	1.88	305	171
B3	3.7	302.0	1°	1.47	305	121



- NOTES:**
- BUTT WELD EDGE PREPARATION AS PER STYLE B/D.
 - FOR DESIGN PRESSURE AND TEMP REFER ASSY. DRAWING.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
VAR NO		MATERIAL SPECN					DI	QUANTITY			
07		TUBE D51 X 5 5713 LONG				154880951501			34.409		
						SA213 T11			01		
06		TUBE D51 X 6.6 4900 LONG				154881382151			37.494		
						SA213 T11			01		
05		TUBE D51 X 7.1 15958.0 LONG				154880970000	A		129.750		
						SA213 T11			01		
04		TUBE D51 X 7.1 150 LONG				154520970000	A		1.700		
						SA213TP347H			01		
03		TUBE D51 X 5 6856.0 LONG				151520720000	A		42.450		
						SA213TP347H			01		
02		TUBE D51 X 10; 150 LONG				154520790000	A		1.700		
						SA213TP347H			01		
01		TUBE D51 X 9.6 11263 LONG				154890980001	A		116.200		
						SA213 T22			01		

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

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

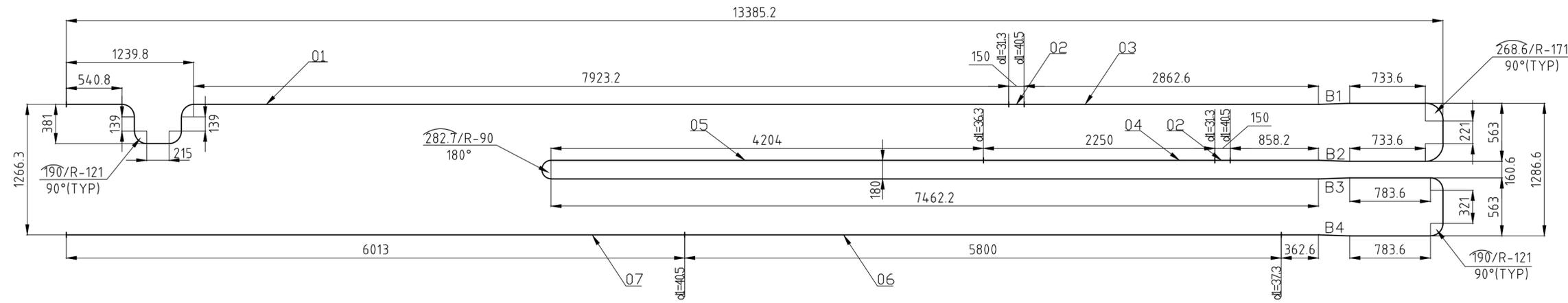
DRN	T.DHANA	SIGNATURE	DATE
CHD	RAJAGOPALAN		26.02.2025
APPD	RAJAGOPALAN		26.02.2025

355-054

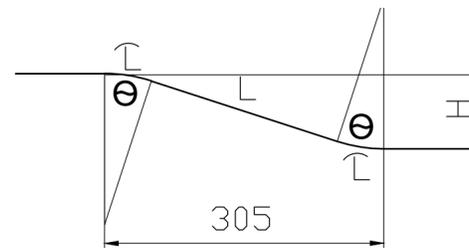
DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
CODE	121			N.T.S.	363.700	

TITLE: **CIRCUIT-02**

DRAWING NO : **2-SB-011-66378** RE: **00**



Sl.NO	H	L	θ	∠	DL	R
B1	10.2	293.5	2°	5.8	305	171
B2	9.7	294	2°	5.5	305	171
B3	9.7	297.3	2°	3.89	305	121
B4	10.2	297	2°	4.07	305	121



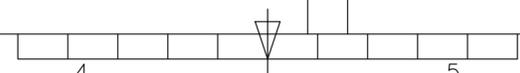
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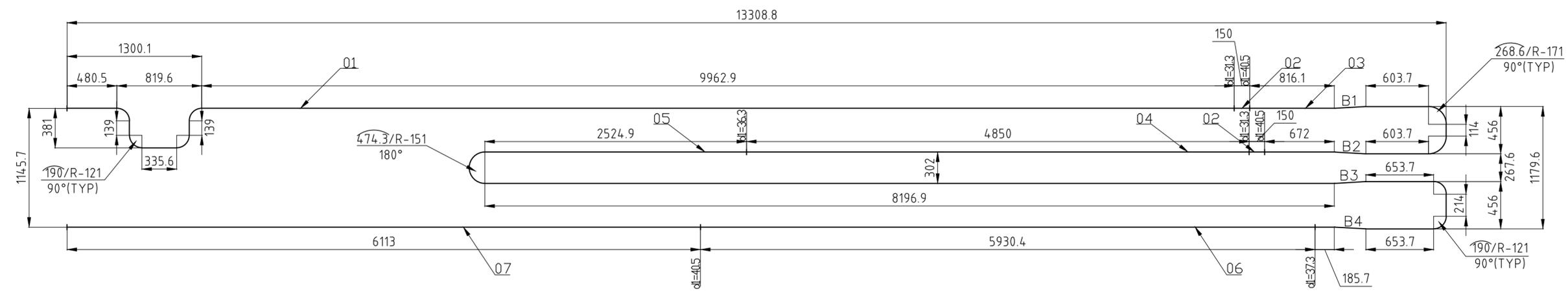
- BUTT WELD EDGE PREPARATION AS PER STYLE B/D.
- FOR DESIGN PRESSURE AND TEMP REFER ASSY. DRAWING.

VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
					VAR NO	MATERIAL SPECN		DI	QUANTITY		
	07	TUBE D51 X 5 6013 LONG				154880951501 SA213 T11	A		36.210 01		
	06	TUBE D51 X 6.6 5800 LONG				154881382151 SA213 T11	A		44.380 01		
	05	TUBE D51 X 7.1 15191.0 LONG				154880970000 SA213 T11	A		123.520 01		
	04	TUBE D51 X 9.6 2250 LONG				154890980001 SA213 T22	A		23.210 01		
	03	TUBE D51 X 5.0 6558.0 LONG				151520720000 SA213TP347H	A		40.600 01		
	02	TUBE D51 X 10.0 150 LONG				154520790000 SA213TP347H	A		1.700 02		
	01	TUBE D51 X 9.6 9717 LONG				154890980001 SA213 T22	A		100.250 01		

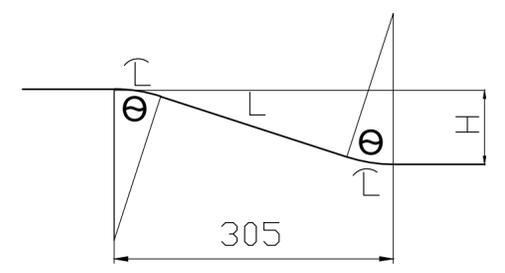
REV 01	DATE	ALTERED :
ZONE		CHD & APPD :

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			
	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	T.DHANA
			SIGNATURE	DATE
			RAJAGOPALAN	27.02.2025
DEPT PP CODE 121		ALL DIMENSIONS ARE IN MM PROJECTION SCALE N.T.S. WEIGHT (Kg) 371.570	REF TO ASSY / OLD DWG	
TITLE			DRAWING NO :	
CIRCUIT-03			2-SB-011-66379 00	





SI.NO	H	L	θ	ℓ	DL	R
B1	17	285.8	3°	9.80	305	171
B2	17.2	285.5	3°	9.95	305	171
B3	17.2	291.5	3°	6.97	305	121
B4	17	291.7	3°	6.87	305	121



- NOTES:**
- BUTT WELD EDGE PREPARATION AS PER STYLE B/D.
 - FOR DESIGN PRESSURE AND TEMP REFER ASSY. DRAWING.

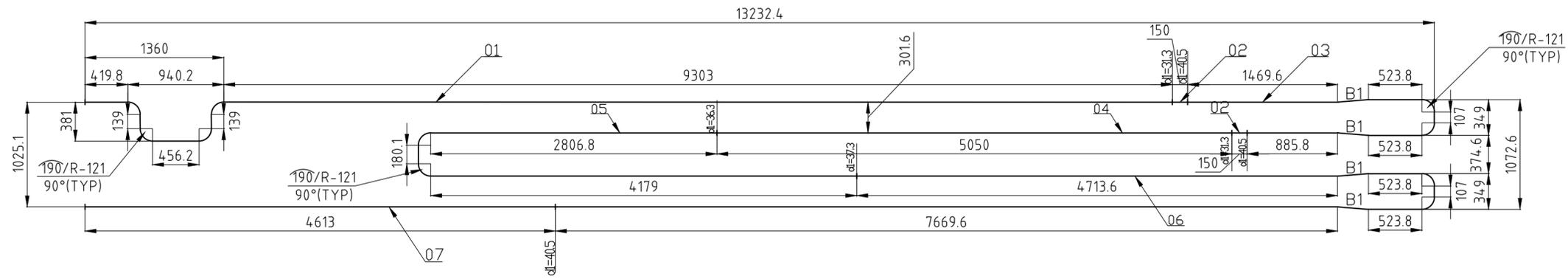
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
VAR NO		MATERIAL SPECN					DI	QUANTITY			
07	TUBE D51 X 5 6113 LONG				154880951501	SA213 T11	A		36.810		
								01			
06	TUBE D51 X 6.6 5930.4 LONG				154881382151	SA213 T11	A		45.370		
								01			
05	TUBE D51 X 7.1 13895 LONG				154880970000	SA213 T11	A		112.980		
								01			
04	TUBE D51 X 9.6 4850 LONG				154890980001	SA213 T22	A		50.030		
								01			
03	TUBE D51 X 5.0 3957.5 LONG				151520720000	SA213TP347H	A		24.500		
								01			
02	TUBE D51 X 10.0 150 LONG				154520790000	SA213TP347H	A		1.700		
								01			
01	TUBE D51 X 9.6 11817 LONG				154890980001	SA213 T22	A		121.910		
								01			

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

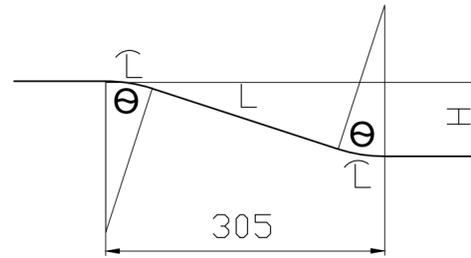
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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT					
 355-054	Bharat Heavy Electricals Ltd		DRN T.DHANA	SIGNATURE	DATE 27.02.2025
	UNIT: HIGH PRESSURE BOILER PLANT		CHD RAJAGOPALAN		27.02.2025
	TIRUCHIRAPALLI - 620014		APPD RAJAGOPALAN		27.02.2025
DEPT PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE N.T.S.	WEIGHT (Kg) 395.000	REF TO ASSY / OLD DWG
CODE 121					
TITLE				DRAWING NO :	
CIRCUIT-04				2-SB-011-66380 00	





SI.NO	H	L	θ	\bar{L}	DL	R
B1	23.8	286.5	5°	9.71	305	121



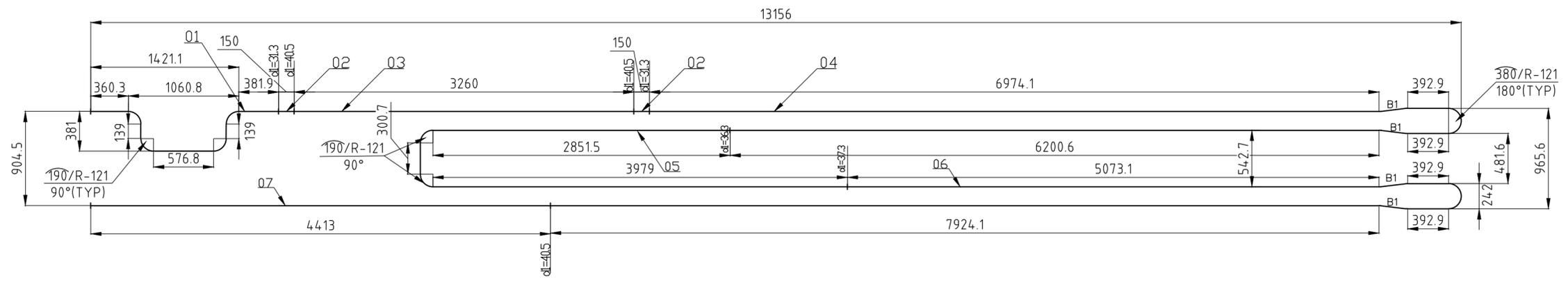
VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
VAR NO		MATERIAL SPECN			DI	QUANTITY					
07	TUBE D51 X5.0 4613 LONG			154880951501	A	27.780					
				SA213 T11		01					
06	TUBE D51 X 6.6 14529.8 LONG			154881382151	A	111.180					
				SA213 T11		01					
05	TUBE D51 X 7.1 7545.9 LONG			154880970000	A	61.355					
				SA213 T11		01					
04	TUBE D51 X 9.6 5050 LONG			154890980001	A	52.100					
				SA213 T22		01					
03	TUBE D51 X 5 4502.0 LONG			151520720000	A	27.870					
				SA213TP347H		01					
02	TUBE D51 X 10.0 150 LONG			154520790000	A	1.700					
				SA213TP347H		02					
01	TUBE D51 X 9.6 11217.0 LONG			154890980001	A	115.730					
				SA213 T22		01					

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

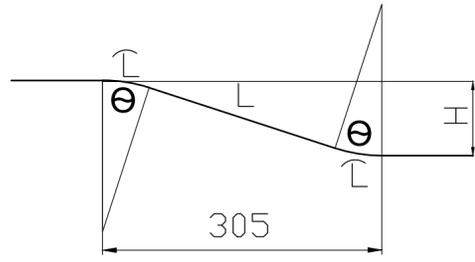
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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
 355-054	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN T.DHANA NAME SIGNATURE DATE 27.02.2025
	DEPT PP	ALL DIMENSIONS ARE IN MM	SCALE N.T.S.
	CODE 121	PROJECTION	WEIGHT (Kg) 399.415
TITLE			REF TO ASSY / OLD DWG
CIRCUIT-05			DRAWING NO : 2-SB-011-66381
			RE 00





SI.NO	H	L	θ	∠	DL	R
B1	30.6	281.4	6°	12.6	306.6	121

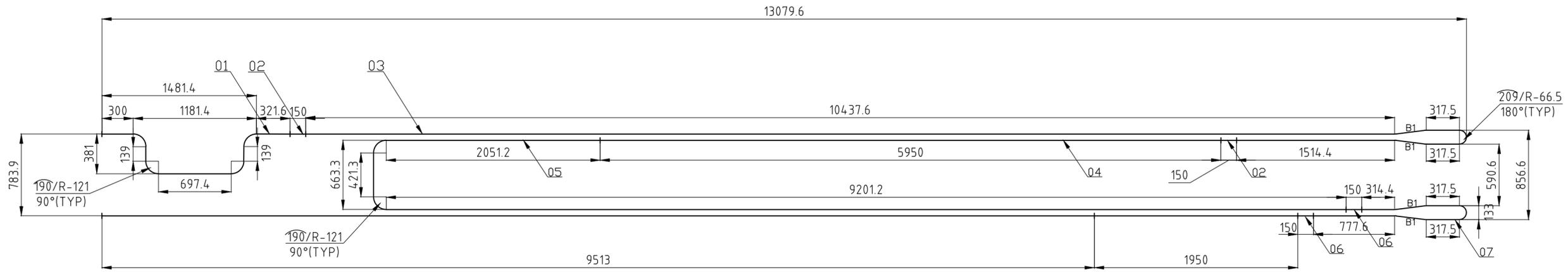


VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
VAR NO		MATERIAL SPECN			DI	QUANTITY					
07	TUBE D51 X 5 4413 LONG				154880951501	SA213 T11	A		26.580		
								01			
06	TUBE D51 X 6.6 14776.3 LONG				154881382151	SA213 T11	A		113.060		
								01			
05	TUBE D51 X 7.1 7511.2 LONG				154880970000	SA213 T11	A		61.073		
								01			
04	TUBE D51 X 9.6 14954 LONG				154890980001	SA213 T22	A		154.280		
								01			
03	TUBE D51 X 5 3260 LONG				151520720000	SA213TP347H	A		20.182		
								01			
02	TUBE D51 X 10.0 150 LONG				154520790000	SA213TP347H	A		1.700		
								01			
01	TUBE D51 X 9.6 2357 LONG				154890980001	SA213 T22	A		24.317		
								01			

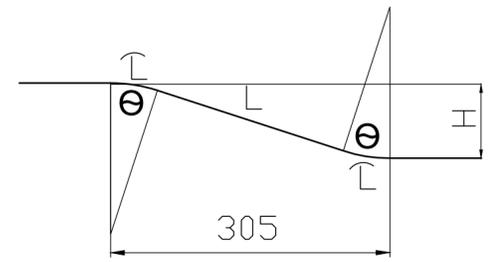
REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

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TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT			
	Bharat Heavy Electricals Ltd		DRN T.DHANA
	UNIT: HIGH PRESSURE BOILER PLANT		SIGNATURE
	TIRUCHIRAPALLI - 620014		DATE 27.02.2025
DEPT PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE N.T.S.
CODE 121			WEIGHT (Kg) 402.890
TITLE			REF TO ASSY / OLD DWG
CIRCUIT-06			DRAWING NO : 2-SB-011-66382 00



Sl.NO	H	L	θ	∠	DL	R
B1	36.4	277	7°	15	307	121



VARIANT NUMBER	ITEM NUMBER	DESCRIPTION	STD	DRAWING NUMBER	ITEM NO	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT	GS	ZONE
VAR NO		MATERIAL SPECN					DI	QUANTITY			
09		TUBE D51 X 8.8 9513 LONG				154880951501 SA213 T11	A		96.575 01		
08		TUBE D51 X 6.6 1950 LONG				154881382151 SA213 T11	A		14.921 01		
07		TUBE D51 X 5 2550 LONG				151520720000 SA213TP347H	A		15.358 01		
06		TUBE D51 X 7.1 150 LONG				154520970000 SA213TP347H	A		1.253 02		
05		TUBE D51 X 6.6 12053.7 LONG				154881382151 SA213 T11	A		92.234 01		
04		TUBE D51 X 9.6 5950 LONG				154890980001 SA213 T22	A		61.386 01		
03		TUBE D51 X 5.6 13410 LONG				154520730000 SA213TP347H	A		91.670 01		
02		TUBE D51 X 10.0 150 LONG				154520790000 SA213TP347H	A		1.700 01		
01		TUBE D51 X 9.6 2357 LONG				154890980001 SA213 T22	A		24.317 01		

REV	DATE	ALTERED :
01		CHD & APPD :
ZONE		

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT

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

DRN	T.DHANA	SIGNATURE	DATE
CHD	RAJAGOPALAN		27.02.2025
APPD	RAJAGOPALAN		27.02.2025

355-054

DEPT	PP	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
CODE	121			N.T.S.	402.367	

TITLE: **CIRCUIT-07**

DRAWING NO : **2-SB-011-66383** 00

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