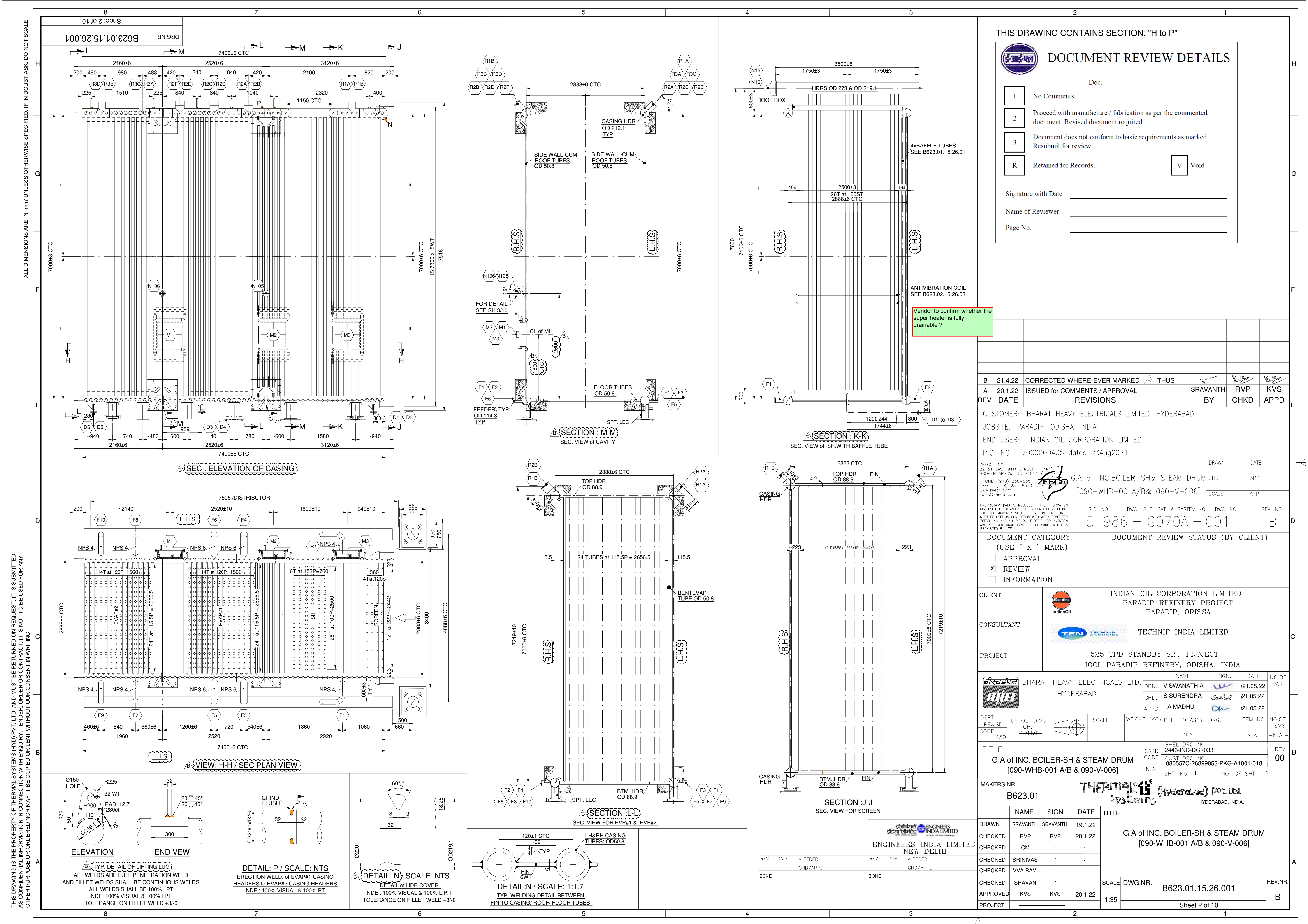




THIS DRAWING CONTAINS SECTION: "H to P"



DOCUMENT REVIEW DETAILS

Doc.

1	No Comments
2	Proceed with manufacture / fabrication as per the commented document. Revised document required.
3	Document does not conform to basic requirements as marked. Resubmit for review.
R	Retained for Records.
V	Void

Signature with Date _____

Name of Reviewer _____

Page No. _____

B	21.4.22	CORRECTED WHERE-EVER MARKED			△	THUS			
A	20.1.22	ISSUED for COMMENTS / APPROVAL					SRAVANTHI	RVP	KVS
REV.	DATE	REVISIONS					BY	CHKD	APPD
CUSTOMER: BHARAT HEAVY ELECTRICALS LIMITED, HYDERABAD									
JOBSITE: PARADIP, ODISHA, INDIA									
END USER: INDIAN OIL CORPORATION LIMITED									
P.O. NO.: 7000000435 dated 23Aug2021									

ZEECO, INC. 22151 EAST 91st STREET BROKEN ARROW, OK 74014 PHONE: (918) 258-8551 FAX: (918) 251-5519 www.zeeeco.com sales@zeeeco.com		G.A of INC. BOILER-SH & STEAM DRUM [090-WHB-001A/B & 090-V-006]		CHK	APP
S.O. NO.		DWG., SUB. CAT. & SYSTEM NO.	DWG. NO.	REV. NO.	
51986 - G070A - 001				B	

DOCUMENT CATEGORY		DOCUMENT REVIEW STATUS (BY CLIENT)	
(USE "X" MARK)			
☐ APPROVAL			
☒ REVIEW			
☐ INFORMATION			

CLIENT	INDIAN OIL CORPORATION LIMITED PARADIP REFINERY PROJECT PARADIP, ORISSA			
CONSULTANT	TECHNIP INDIA LIMITED			

PROJECT	525 TPD STANDBY SRU PROJECT IOCL PARADIP REFINERY, ODISHA, INDIA			
---------	---	--	--	--

BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		NAME	SIGN.	DATE	NO. OF VAR.
		DRN.	VISWANATH A	21.05.22	
		CHD.	S SURENDRA	21.05.22	
		APPD.	A MADHU	21.05.22	

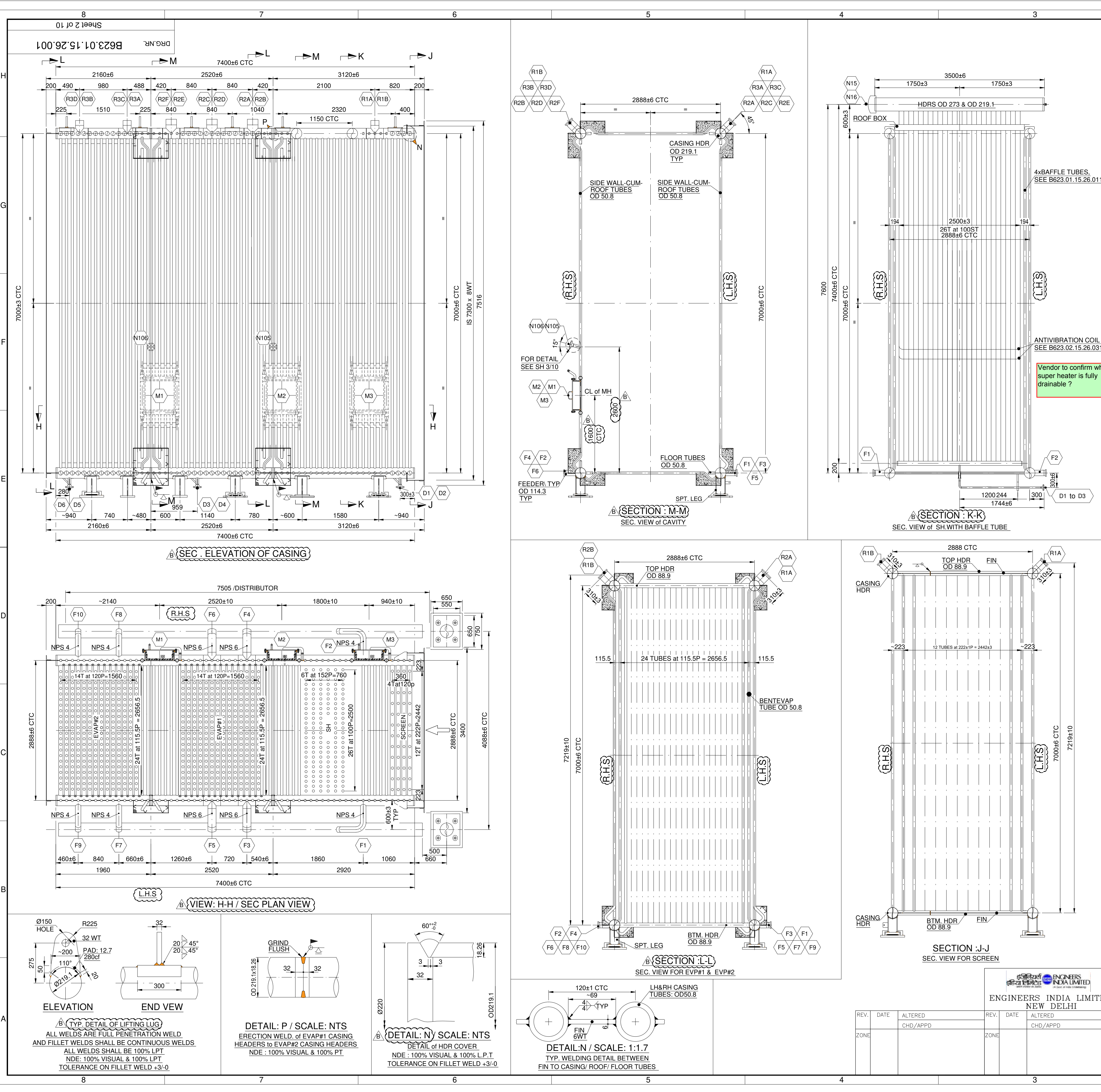
DEPT. PE&SD CODE.	UNTO. DIMS. GR. CAMF	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
450				-N.A.-	-N.A.-	-N.A.-

TITLE G.A of INC. BOILER-SH & STEAM DRUM [090-WHB-001 A/B & 090-V-006]		CARD CODE	BHEL DRG NO. 2443-INC-DCI-033	REV.
		N.A.	CUST DRG NO. 080557C-26899053-PKG-A1001-018	00
			SHT. No 1	NO. OF SHT. 1

MAKERS NR. B623.01	THERMATEX [®] (Hyderabad) Pvt. Ltd. HYDERABAD, INDIA.			
-----------------------	---	--	--	--

	NAME	SIGN	DATE	TITLE
DRAWN	SRAVANTHI	SRAVANTHI	19.1.22	G.A of INC. BOILER-SH & STEAM DRUM [090-WHB-001 A/B & 090-V-006]
CHECKED	RVP	RVP	20.1.22	
CHECKED	CM	-	-	
CHECKED	SRINIVAS	-	-	
CHECKED	VVA RAVI	-	-	
CHECKED	SRAVAN	-	-	SCALE DWG.NR. B623.01.15.26.001
APPROVED	KVS	KVS	20.1.22	
PROJECT				1:35
				Sheet 2 of 10

THIS DRAWING IS THE PROPERTY OF THERMAL SYSTEMS (HYD) PVT. LTD. AND MUST BE RETURNED ON REQUEST. IT IS SUBMITTED AS CONFIDENTIAL INFORMATION IN CONNECTION WITH ENQUIRY, TENDER, ORDER OR CONTRACT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE OR ORDERED NOR MAY IT BE COPIED OR LENT WITHOUT OUR CONSENT IN WRITING.



THIS DRAWING IS THE PROPERTY OF THERMAL SYSTEMS (HYD) PVT. LTD. AND MUST BE RETURNED ON REQUEST. IT IS SUBMITTED AS CONFIDENTIAL INFORMATION IN CONNECTION WITH ENQUIRY, TENDER, ORDER OR CONTRACT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE OR ORDERED NOR MAY IT BE COPIED OR LENT WITHOUT OUR CONSENT IN WRITING.



1	No Comments	
2	Proceed with manufacture / fabrication as per the commented document. Revised document required.	
3	Document does not conform to basic requirements as marked. Resubmit for review.	
R	Retained for Records.	V Void

Signature with Date _____

Name of Reviewer _____

Page No. _____

Steam Drum Internal drawings / details are missing in the GAD. Vendor to include the same.

B	21.4.22	CORRECTED WHERE-EVER MARKED  THIS			
A	20.1.22	ISSUED for COMMENTS / APPROVAL	SRAVANTHI	RVP	KVS
REV.	DATE	REVISIONS	BY	CHKD	APPD

CUSTOMER: BHARAT HEAVY ELECTRICALS LIMITED, HYDERABAD

JOBSITE: PARADIP, ODISHA, INDIA

END USER: INDIAN OIL CORPORATION LIMITED

P.O. NO.: 7000000435 dated 23Aug2021

ZEECO, INC. 22151 EAST 91st STREET BROKEN ARROW, OK 74014 PHONE: (918) 258-8551 FAX: (918) 251-5519 www.zeeco.com sales@zeeco.com 	G.A of INC. BOILER-SH AND STEAM DRUM [090-WHB-001 A/B AND 090-V-006]	DRAWN	DATE
		CHK	APP
		SCALE	APP

PROPRIETARY DATA IS INCLUDED IN THE INFORMATION DISCLOSED HEREIN AND IS THE PROPERTY OF ZEECO, INC. THIS INFORMATION IS SUBMITTED IN CONFIDENCE AND MUST BE USED IN CONNECTION WITH WORK DONE FOR ZEECO, INC. AND ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED. UNAUTHORIZED DISCLOSURE OR USE IS	S.O. NO.	DWG., SUB. CAT. & SYSTEM NO.	DWG. NO.	REV. NO.
	51986	- GO70A - 001		B

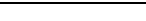
DOCUMENT CATEGORY	DOCUMENT REVIEW STATUS (BY CLIENT)
-------------------	------------------------------------

☐ APPROVAL
☒ REVIEW
☐ INFORMATION

CLIENT	 INDIAN OIL CORPORATION LIMITED PARADIP REFINERY PROJECT PARADIP, ORISSA
--------	--

CONSULTANT		TECHNIP INDIA LIMITED
------------	---	-----------------------

PROJECT	525 TPD STANDBY SRU PROJECT IOCL PARADIP REFINERY, ODISHA, INDIA
---------	---

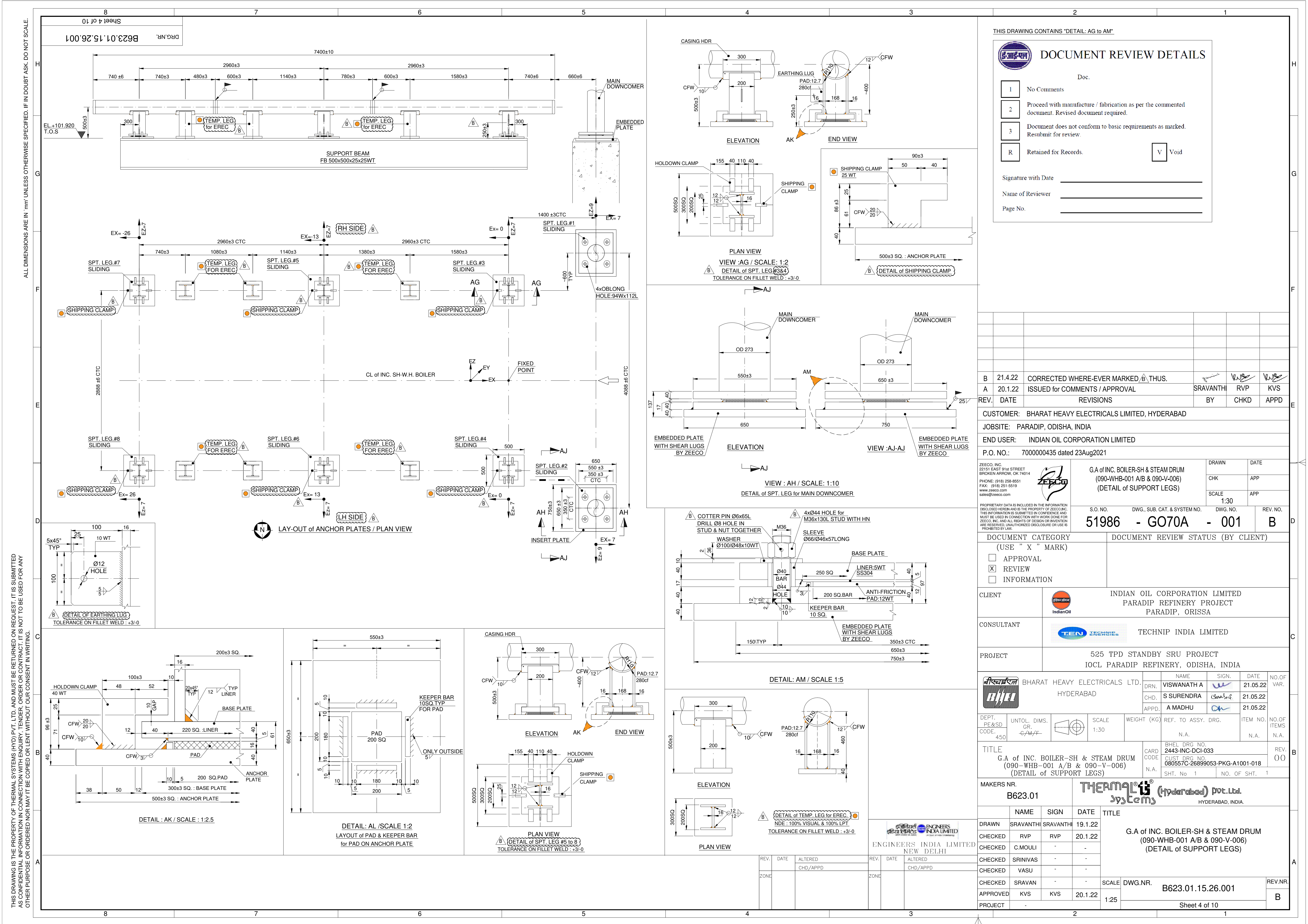
	BHARAT HEAVY ELECTRICALS LTD.		NO. OF VAR.	
	HYDERABAD			
	DRN.	VISWANATH A 		21.05.22
	CHD.	S SURENDRA 		21.05.22
APPD.	A MADHU 	21.05.22		

DEPT. PE&SD	UNTOL. DIMS. GR.		SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO.OF ITEMS
CODE. 450	C/M/F				-N.A.-	-N.A.-	-N.A.-

TITLE		2443-INC-DCI-033		REV.
G.A of INC. BOILER-SH AND STEAM DRUM		CARD CODE	CUST DRG. NO.	00
[090-WHB-001 A/B AND 090-V-006]		N.A.	080557C-26899053-PKG-A1001-018	
		SHT. NO. 1	NO. OF SHT. 1	

MAKERS NR. B623.01	 THERMAL[®] SYSTEMS (Hyderabad) Pvt. Ltd. HYDERABAD, INDIA.
-----------------------	---

	NAME	SIGN	DATE	TITLE		
DRAWN	SRAVANTHI	SRAVANTHI	19.1.22	G.A of INC. BOILER-SH AND STEAM DRUM [090-WHB-001 A/B AND 090-V-006]		
CHECKED	RVP	RVP	20.1.22			
CHECKED	CM	-	-			
CHECKED	SRINIVAS	-	-			
CHECKED	VVA RAVI	-	-			
CHECKED	SRAVAN	-	-	SCALE	DWG.NR.	REV.NR.
APPROVED	KVS	KVS	20.1.22	1:20	B623.01.15.26.001	B
PROJECT	-	-	-	Sheet 3 of 10		



THIS DRAWING CONTAINS "DETAIL: AG to AM"



DOCUMENT REVIEW DETAILS

Doc.	
1	No Comments
2	Proceed with manufacture / fabrication as per the commented document. Revised document required.
3	Document does not conform to basic requirements as marked. Resubmit for review.
R	Retained for Records.
V	Void

Signature with Date _____
Name of Reviewer _____
Page No. _____

B	21.4.22	CORRECTED WHERE-EVER MARKED Δ THUS.			
A	20.1.22	ISSUED for COMMENTS / APPROVAL	SRAVANTHI	RVP	KVS
REV.	DATE	REVISIONS	BY	CHKD	APPD

CUSTOMER: BHARAT HEAVY ELECTRICALS LIMITED, HYDERABAD

JOBSITE: PARADIP, ODISHA, INDIA

END USER: INDIAN OIL CORPORATION LIMITED

P.O. NO.: 7000000435 dated 23Aug2021

ZEECO, INC.
22151 EAST 91st STREET
BROKEN ARROW, OK 74014
PHONE: (918) 258-8551
FAX: (918) 251-5519
www.zeeeco.com
sales@zeeeco.com



G.A of INC. BOILER-SH & STEAM DRUM
(090-WHB-001 A/B & 090-V-006)
(DETAIL OF SUPPORT LEGS)

DRAWN	DATE
CHK	APP
SCALE	APP
1:30	

S.O. NO.	DWG., SUB. CAT. & SYSTEM NO.	DWG. NO.	REV. NO.
51986	- GO70A	- 001	B

DOCUMENT CATEGORY		DOCUMENT REVIEW STATUS (BY CLIENT)	
(USE "X" MARK)			
☐ APPROVAL			
☒ REVIEW			
☐ INFORMATION			

CLIENT	INDIAN OIL CORPORATION LIMITED PARADIP REFINERY PROJECT PARADIP, ORISSA
--------	---

CONSULTANT	TECHNIP INDIA LIMITED
------------	-----------------------

PROJECT	525 TPD STANDBY SRU PROJECT IOCL PARADIP REFINERY, ODISHA, INDIA
---------	---

BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		NAME	SIGN.	DATE	NO. OF VAR.
		DRN.	VISWANATHA A	21.05.22	
		CHD.	S SURENDRA	21.05.22	
		APPD.	A MADHU	21.05.22	

DEPT.	UNTOI. DIMS.	SCALE	WEIGHT (KG)	REF. TO ASSY. DRG.	ITEM NO.	NO. OF ITEMS
PE&SD	GR.	1:30		N.A.	N.A.	N.A.
CODE.	450					

TITLE		CARD CODE	REV.
G.A of INC. BOILER-SH & STEAM DRUM (090-WHB-001 A/B & 090-V-006) (DETAIL OF SUPPORT LEGS)		2443-INC-DCI-033 080557C-26899053-PKG-A1001-018	00
		SHT. No 1	NO. OF SHT. 1

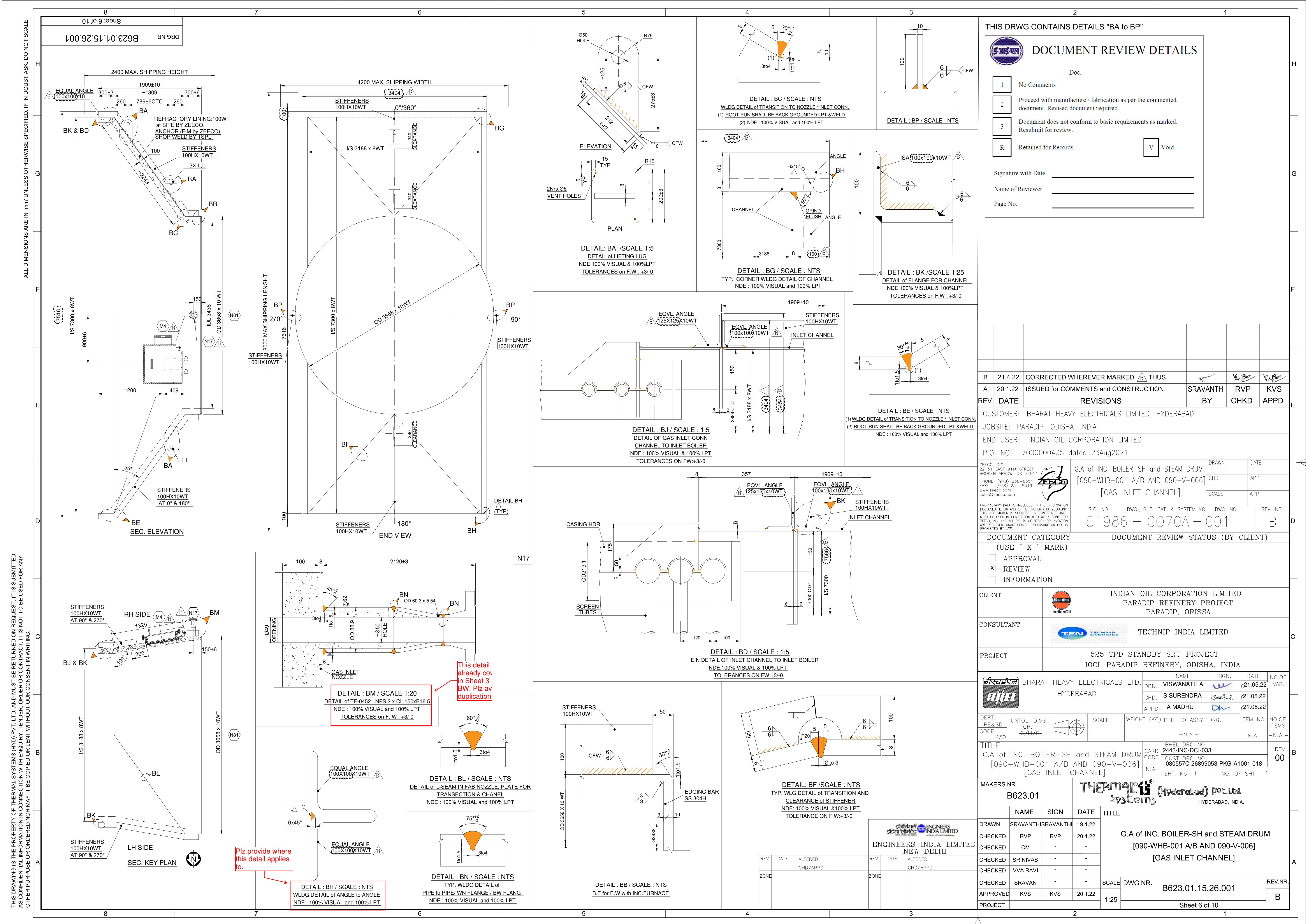
MAKERS NR.	THERMAL SYSTEMS (Hyderabad) Pvt. Ltd. HYDERABAD, INDIA.		
B623.01	NAME	SIGN	DATE

DRAWN	SRAVANTHI	SRAVANTHI	19.1.22	G.A of INC. BOILER-SH & STEAM DRUM (090-WHB-001 A/B & 090-V-006) (DETAIL OF SUPPORT LEGS)	
CHECKED	RVP	RVP	20.1.22		
CHECKED	C.MOULI	-	-		
CHECKED	SRINIVAS	-	-		
CHECKED	SRAVAN	-	-		

APPROVED	KVS	KVS	20.1.22	SCALE	DWG.NR.	REV.NR.
PROJECT	-	-	-	1:25	B623.01.15.26.001	B

ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE SPECIFIED. IF IN DOUBT ASK. DO NOT SCALE.

THIS DRAWING IS THE PROPERTY OF THERMAL SYSTEMS (HYD) PVT. LTD. AND MUST BE RETURNED ON REQUEST. IT IS SUBMITTED AS CONFIDENTIAL INFORMATION IN CONNECTION WITH ENQUIRY, TENDER, ORDER OR CONTRACT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE OR ORDERED NOR MAY IT BE COPIED OR LENT WITHOUT OUR CONSENT IN WRITING.



1

No Comments

2

Proceed with manufacture / fabrication as per the commented document. Revised document required.

3

Document does not conform to basic requirements as marked. Resubmit for review.

R

Retained for Records.

Doc.

Signature with Date

Name of Reviewer

Page No.

21.4.22

CORRECTED WHEREVER MARKED

△

THUS

20.1.22

ISSUED FOR COMMENTS AND CONSTRUCTION.

SRAVANTHI

RVP

KVS

REV.

DATE

REVISIONS

BY

CHKD

APPD

CUSTOMER:

PARADIP, ODISHA, INDIA

END USER:

INDIAN OIL CORPORATION LIMITED

P.O. NO.:

7000000435 dated 23Aug2021

22151 EAST 91st STREET
BROKEN ARROW, OK 74014
PHONE: (918) 258-8551
FAX: (918) 251-5519
www.zeeeco.com
sales@zeeeco.com

ZEEECO

G.A of INC. BOILER-SH and STEAM DRUM
[090-WHB-001 A/B AND 090-V-006]
[GAS INLET CHANNEL]

SCALE

APP

S.O. NO.

DWG., SUB. CAT. & SYSTEM NO.

DWG. NO.

REV. NO.

51986 - G070A - 001

B

DOCUMENT CATEGORY

DOCUMENT REVIEW STATUS (BY CLIENT)

APPROVAL

REVIEW

INFORMATION

(USE "X" MARK)

INDIAN OIL CORPORATION LIMITED
PARADIP REFINERY PROJECT
PARADIP, ORISSA

CONSULTANT

TECHNIP INDIA LIMITED

PROJECT

525 TPD STANDBY SRU PROJECT
IOCL PARADIP REFINERY, ODISHA, INDIA

BHARAT HEAVY ELECTRICALS LTD.

HYDERABAD

DRN.

CHD.

APPD.

NAME

SURENDR A

A MADHU

SIGN.

DATE

21.05.22

21.05.22

NO.OF VAR.

DEPT.

PE&SD

CODE.

UNTOTL.

GR.

450

SCALE

WEIGHT (KG)

REF. TO ASSY. DRG.

ITEM NO.

NO.OF ITEMS

TITLE

G.A of INC. BOILER-SH and STEAM DRUM
[090-WHB-001 A/B AND 090-V-006]
[GAS INLET CHANNEL]

CARD CODE

2443-INC-DCI-033

080557C-26899053-PKG-A1001-018

REV.

00

MAKERS NR.

B623.01

NAME

SIGN

DATE

TITLE

DRAWN

SRAVANTHI

SRAVANTHI

19.1.22

G.A of INC. BOILER-SH and STEAM DRUM
[090-WHB-001 A/B AND 090-V-006]
[GAS INLET CHANNEL]

CHECKED

RVP

RVP

20.1.22

CHECKED

CM

-

-

CHECKED

SRINIVAS

-

-

CHECKED

VVA RAVI

-

-

CHECKED

SRAVAN

-

-

APPROVED

KVS

KVS

20.1.22

PROJECT

SCALE

DWG.NR.

B623.01.15.26.001

REV.NR.

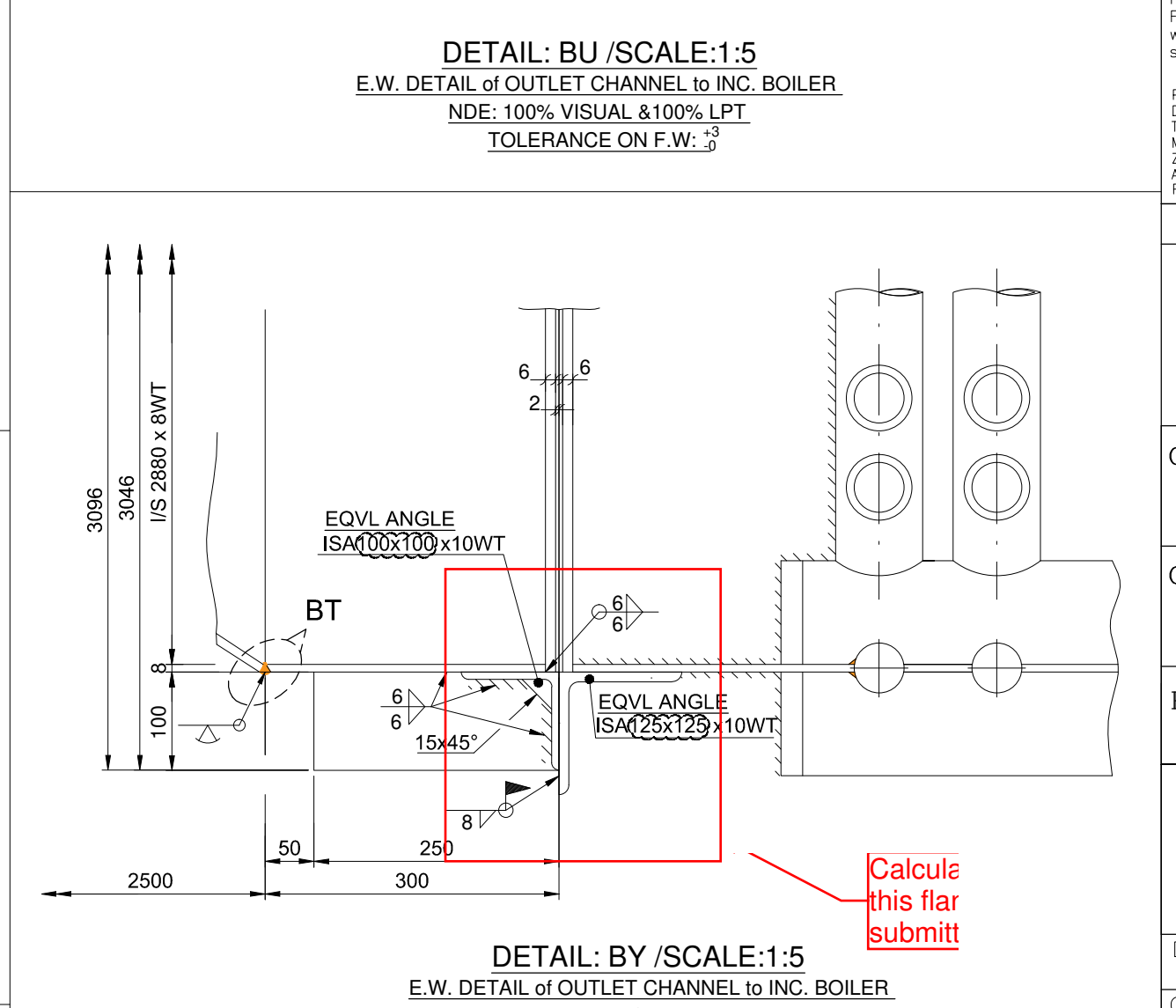
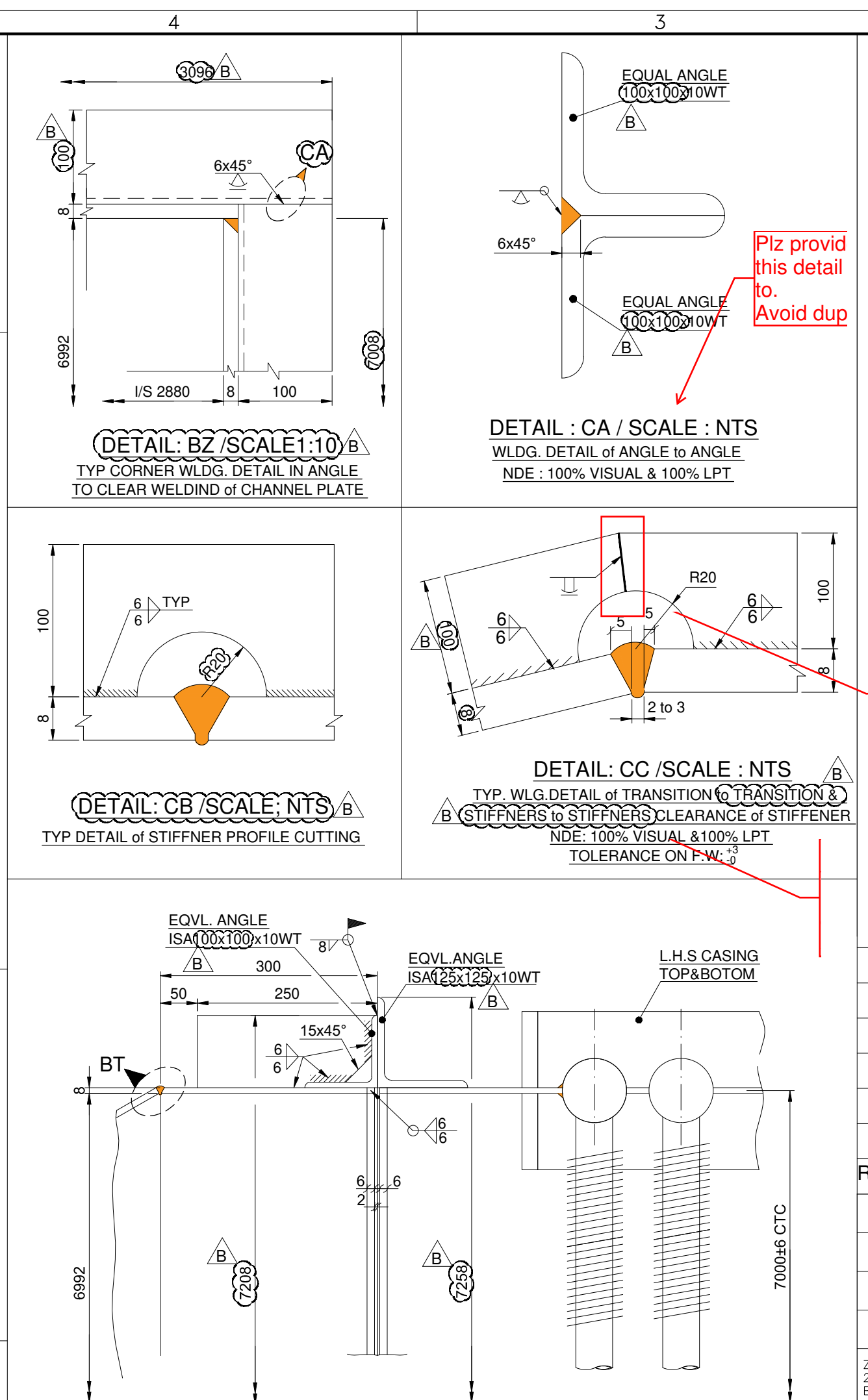
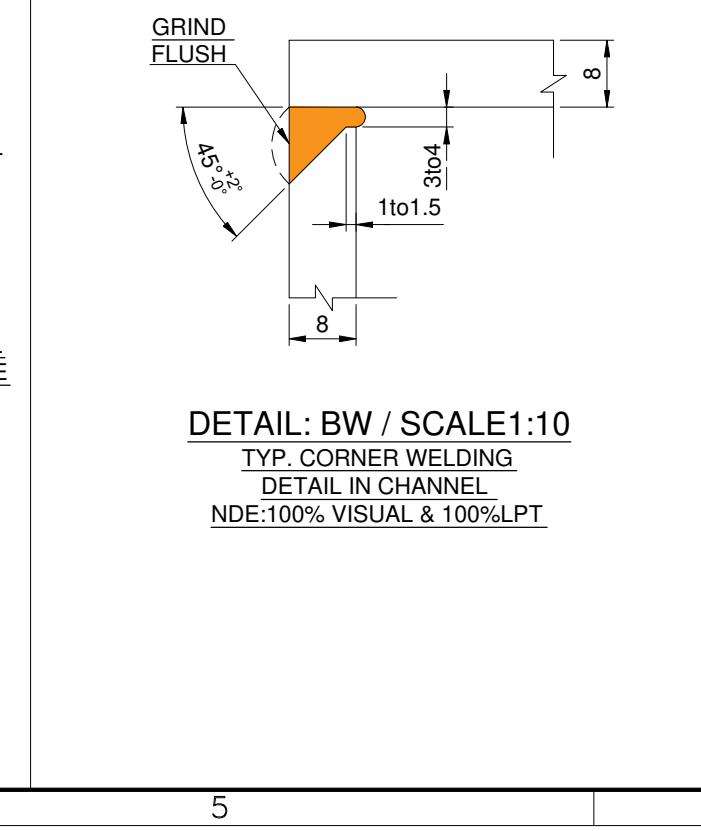
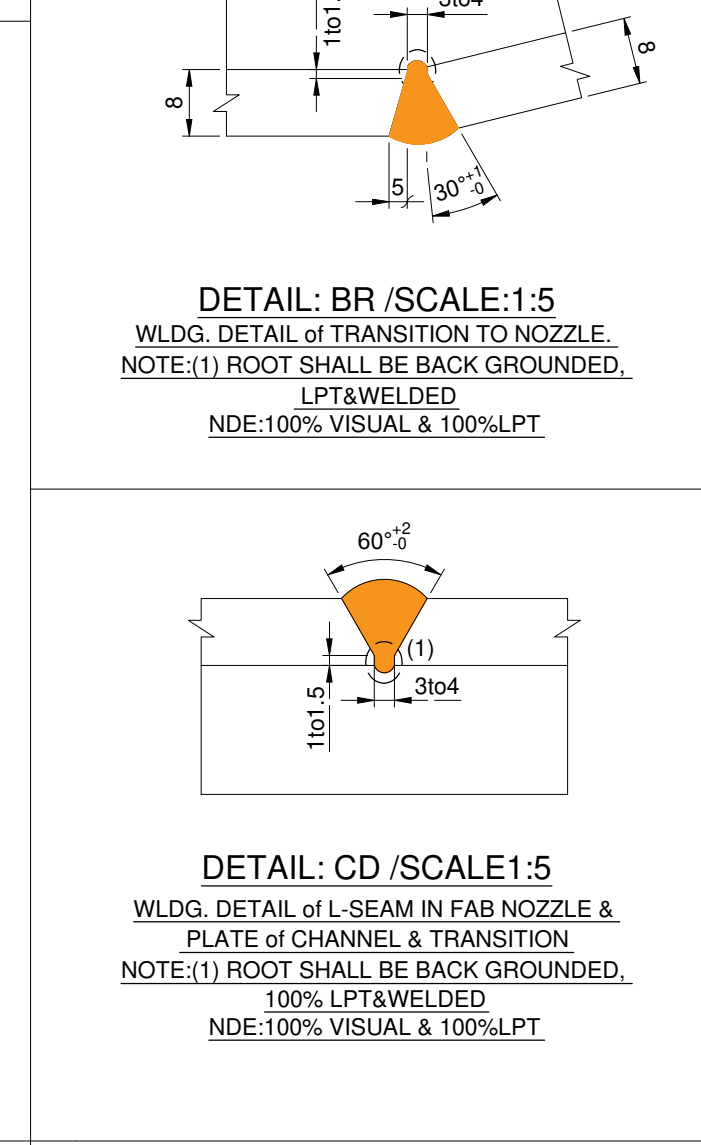
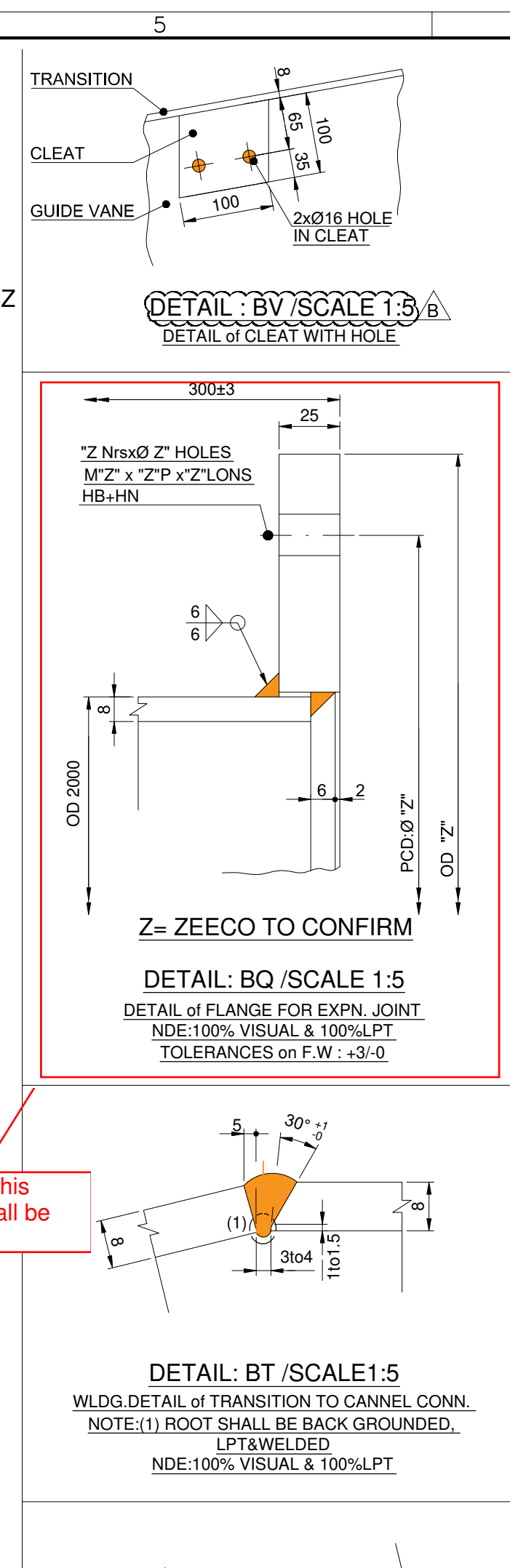
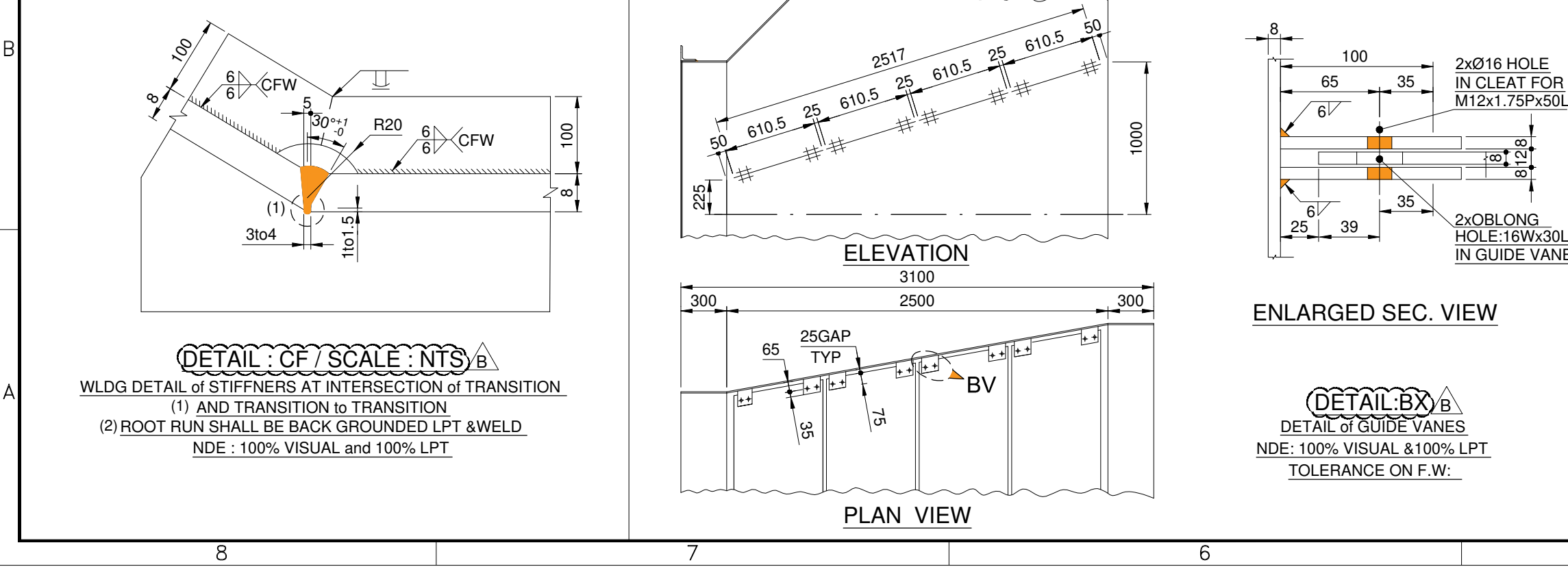
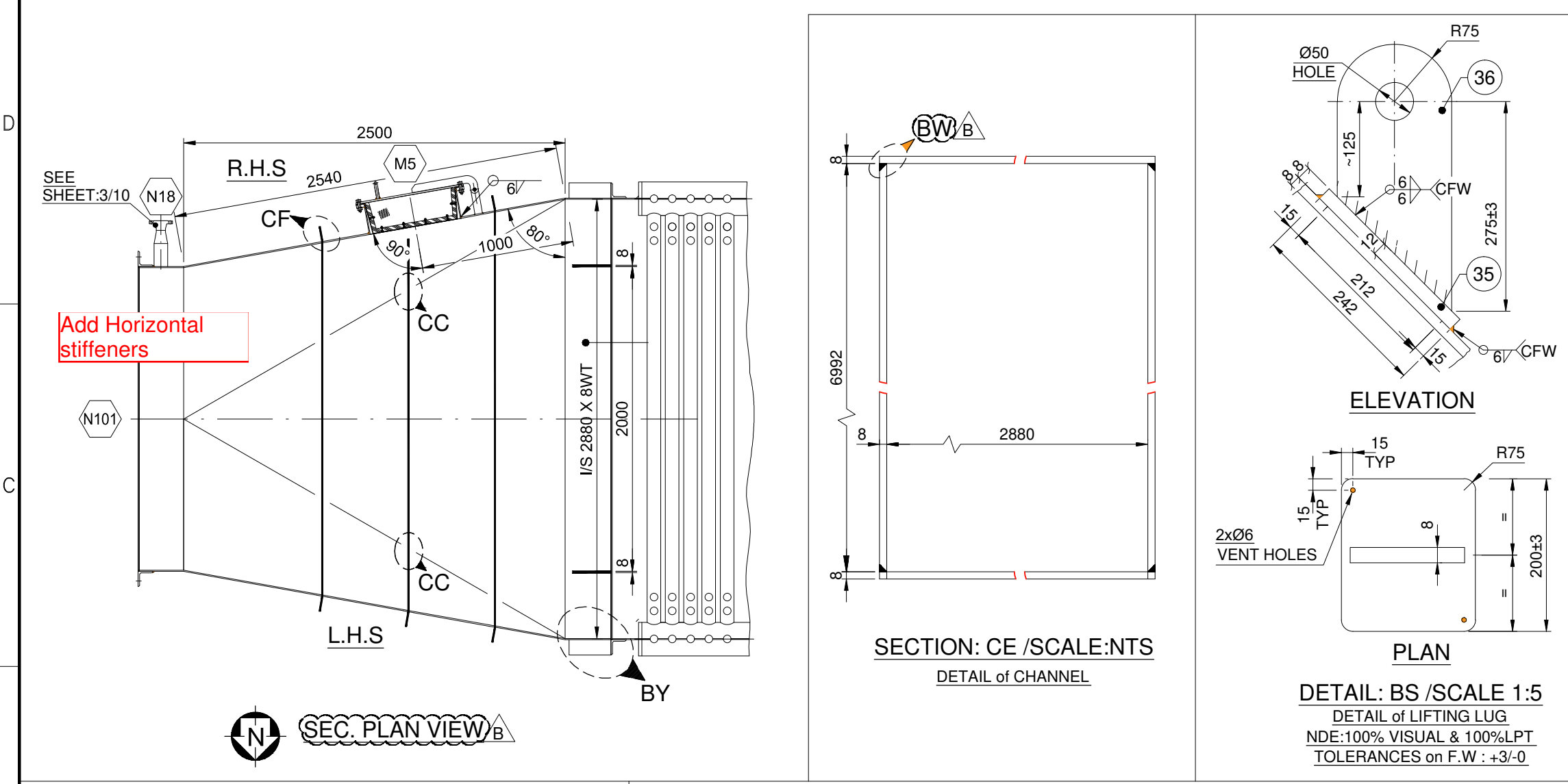
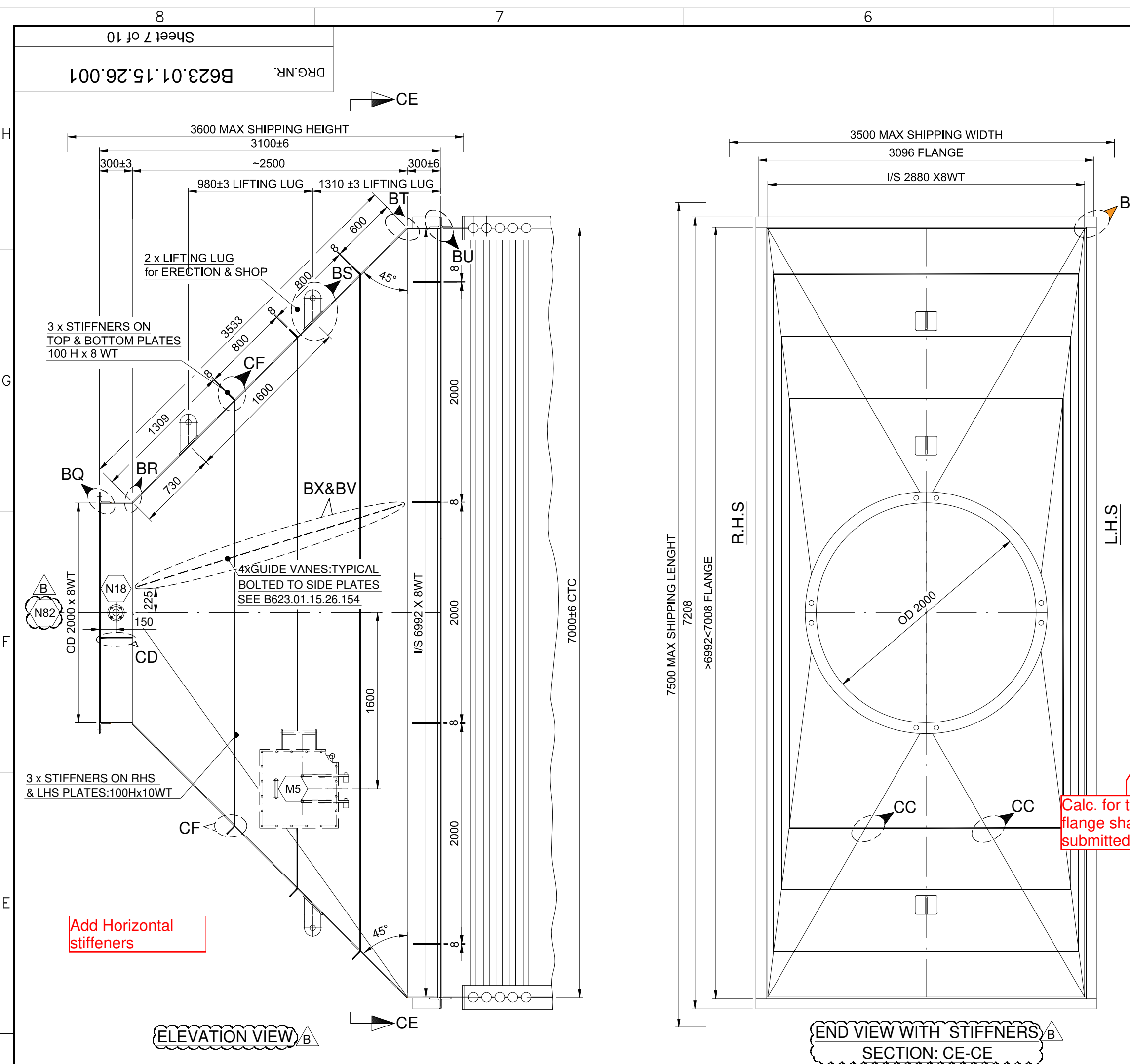
B

1:25

Sheet 6 of 10

THIS DRAWING IS THE PROPERTY OF THERMAL SYSTEMS (HYD) PVT. LTD. AND MUST BE RETURNED ON REQUEST. IT IS SUBMITTED AS CONFIDENTIAL INFORMATION IN CONNECTION WITH ENQUIRY, TENDER, ORDER OR CONTRACT. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE OR ORDERED NOR MAY IT BE COPIED OR LENT WITHOUT OUR CONSENT IN WRITING.

ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE SPECIFIED. IF IN DOUBT ASK. DO NOT SCALE.

[illegible]