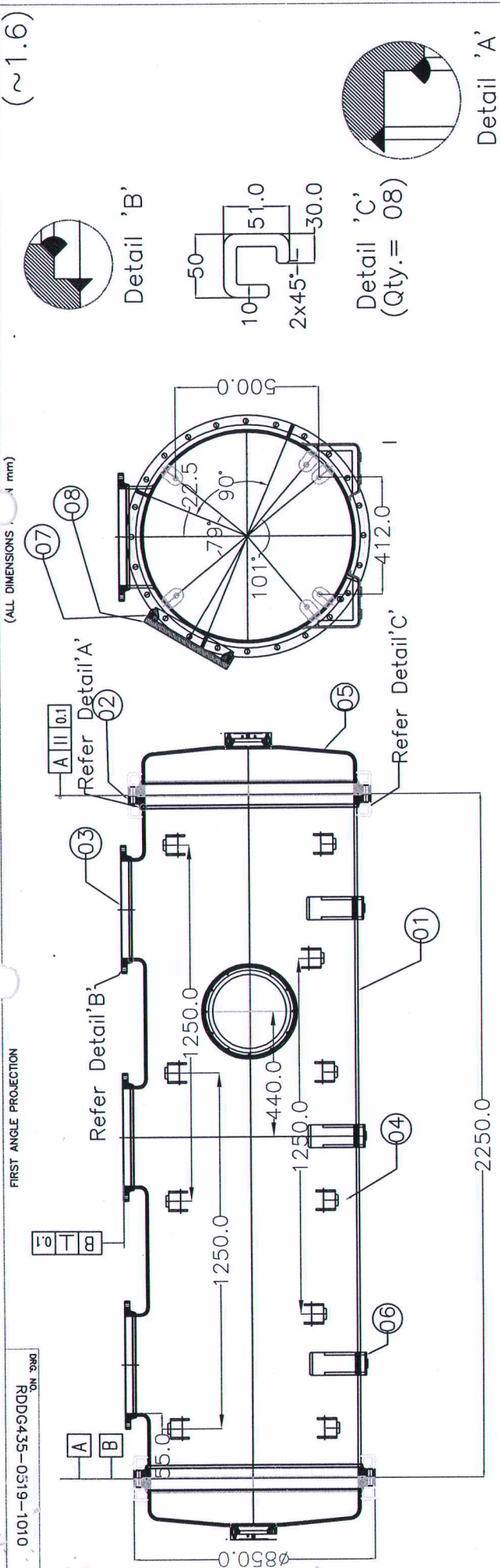




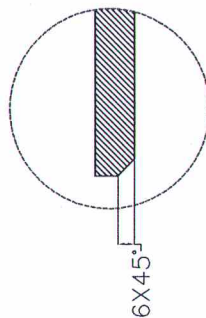
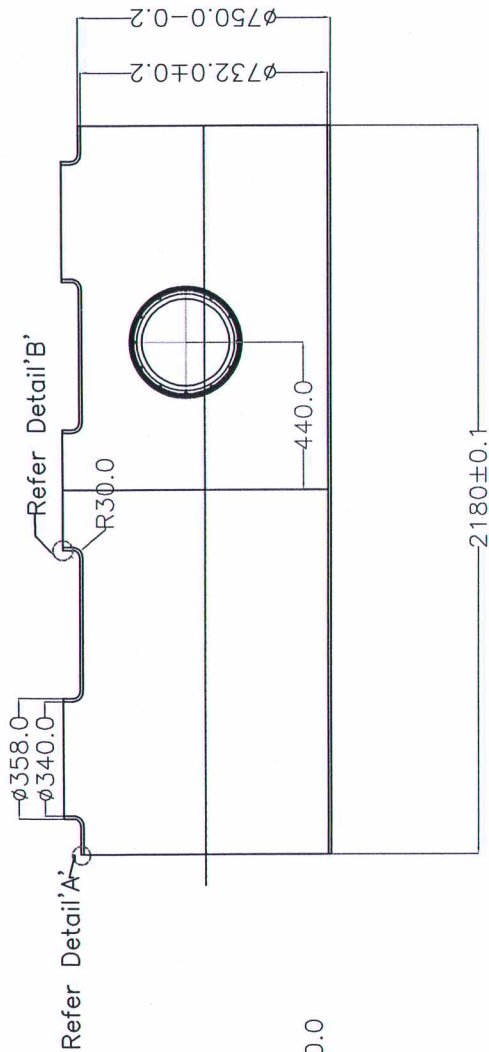
VAR. NO.	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	QTY.	DRAWING NO.	IT. NO.	MATL. CODE	A	UNIT	NO. OF
08	Cover-I			RDDG435-0617-0514				SS-304L		01	
07	Flange			RDDG435-0617-0212B				SS-304L		01	
06	Support Bracket			RDDG435-1130-4130				SS-304L		06	
05	Dished End			RDDG435-0519-1020				SS-304L		02	
04	Bracket			RDDG435-0519-1014				SS-304L		12	
03	FLANGE II			RDDG435-0519-1013				SS-304L		03	
02	FLANGE I			RDDG435-0519-1012				SS-304L		02	
01	BusBar Pipe			RDDG435-0519-1011				SS-304L		01	

1. The Root should be Homogeneous and Continuous.
2. Pressure Test as per Enclosed Specification.
3. Tested Assemblies to be Degreased, sand Blasted and Powder Coated on Outside.
4. Electro Polish inside Surface.
5. Machining of flanges shall be done after Welding.
6. The PCD of flanges shall be within Tolerances.
7. Pipe and Flanges should be TIG/MIG welded with suitable Electrode.

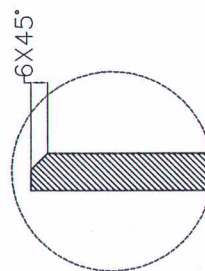
SIGN. AND DATE		INVENTORY NO.	
REF. DRG. NO.		THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.	
REV. DATE ALTERED			
REV.	DATE	ALTERED	CHECKED
CHECKED			
ZONE			
TYPE OF PRODUCT			
NAME OF CUSTOMER			
GSM-245			
BHARAT HEAVY ELECTRICALS LTD.			
HYDERABAD			
NAME SA			
DATE 01.05.13			
NO. OF VAR.			
01			
APPRO. MMRAO			
REF. TO RDDG435-0519-1000			
NO. OF ITDS			
1			
DRAWING NO.			
RDDG435-0519-1010			
REV.			
RDDG435-0519-1010			
SHEET NO.			
NO. OF SHEETS			
BusBar Enclosure			

REF. DRG. NO.

INVENTORY NO.	SIGN. AND DATE
---------------	----------------

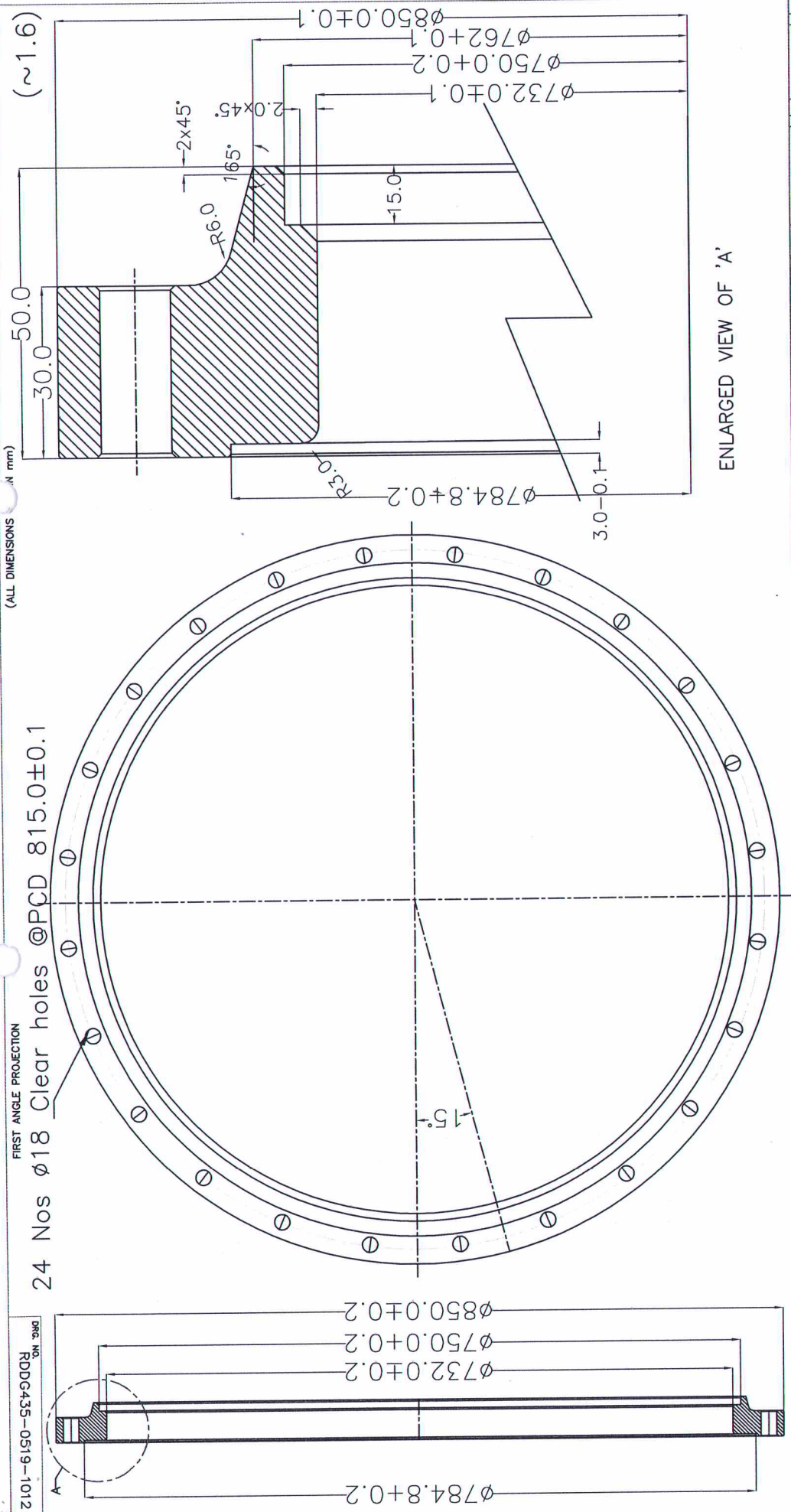


Enlarged View of 'A'



Enlarged view of 'B'

[illegible]



ENLARGED VIEW OF 'A'

VAR. NO.	REMARKS	ITEM NO.	DESCRIPTION	STP	DRAWING NO.	IT. NO.	MATL. CODE	SS-304L	UNIT WT.	QTY.	ZONE
02	FLANGE									01	

GSM-245

TYPE OF PRODUCT
NAME OF CUSTOMER

DEPT.
BHARAT HEAVY ELECTRICALS LTD.
HYDERABAD

DATE
01.05.13

REV.
01

SCALE
NTS

WEIGHT (KG)
RDDG435-0519-1010

REF. TO
RDDG435-0519-1010

DRAWING NO.
RDDG435-0519-1012

SHEET NO.
RDDG435-0519-1012

NO. OF SHEETS
1

FLANGE I

INVENTORY NO.
RDDG435-0519-1012

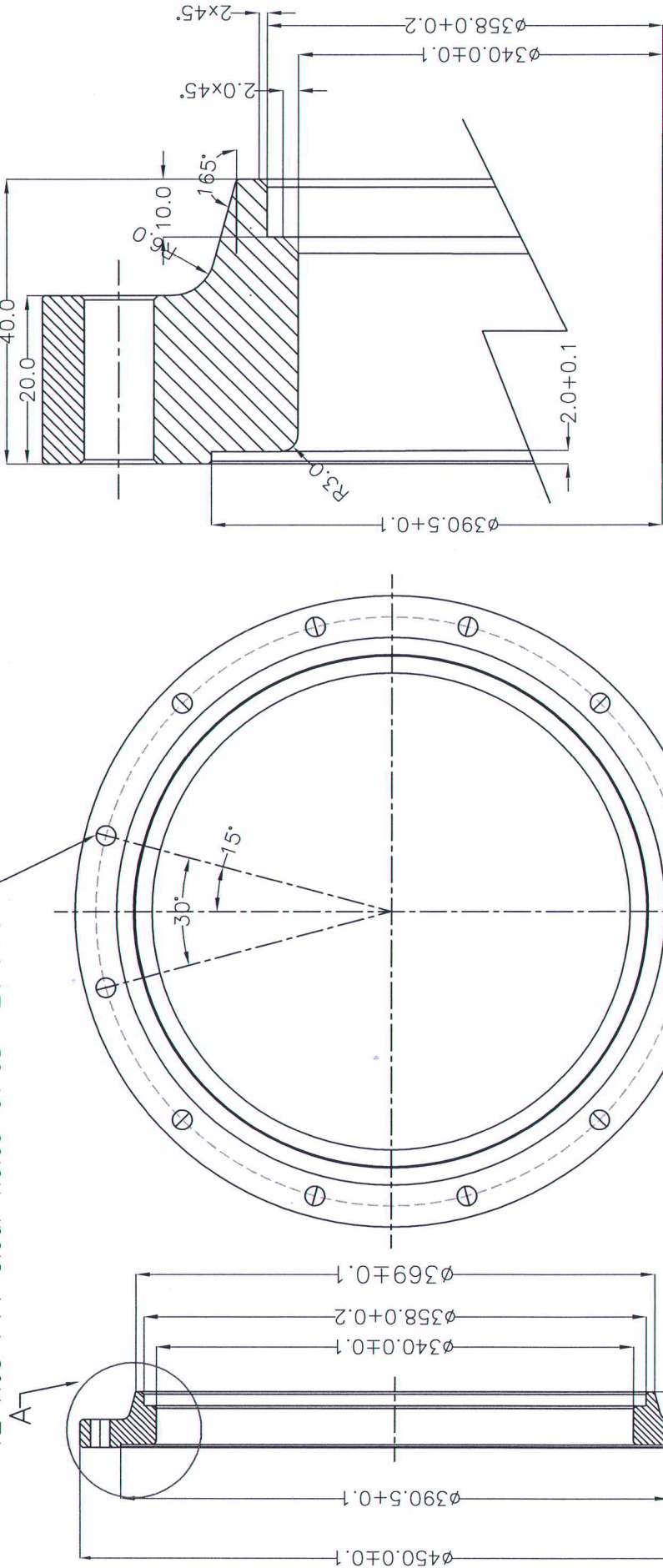
SIGN. AND DATE
01.05.13

REF. DRG. NO.
RDDG435-0519-1012

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED. IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

(~1.6)

12 Nos $\phi 14$ Clear holes @PCD 420.0 ± 0.1



ENLARGED VIEW 'A'

VAR. NO.	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	ST	FLANGE	Ø500x45mm	IT. NO.	SS-304L	MATL. CODE	MATL. SPECN.	UNIT WT.	QTY.	SO

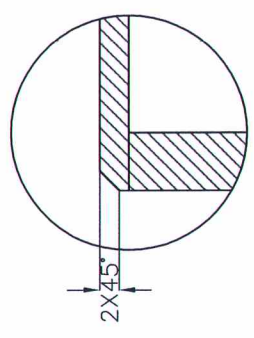
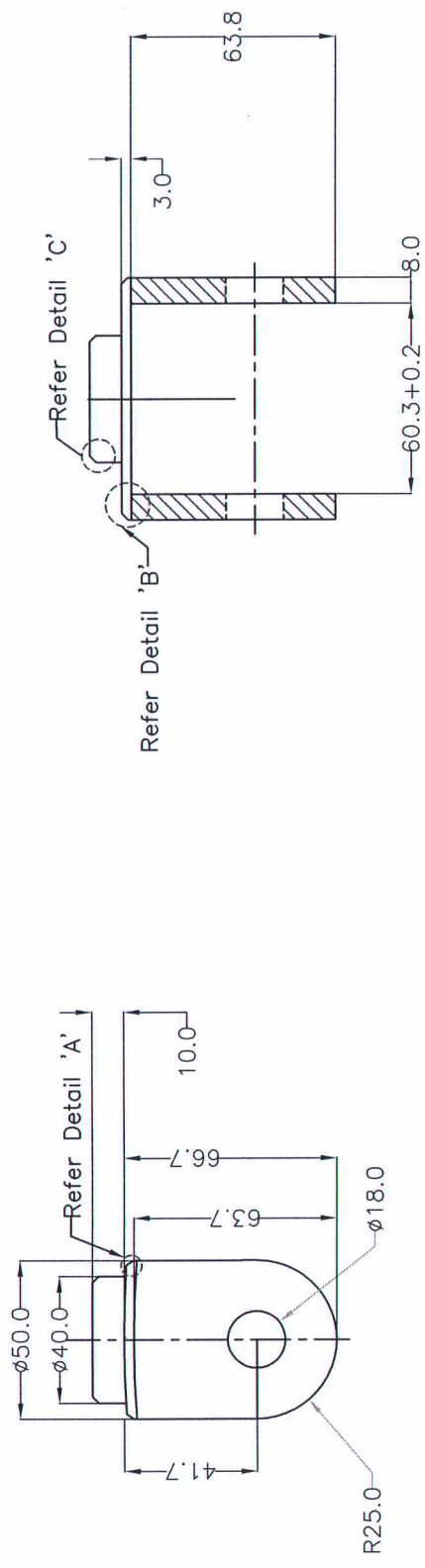
TYPE OF PRODUCT		NAME OF CUSTOMER		GSM-245	
REV.	DATE	ALTERED	CHECKED	ZONE	
INVENTORY NO.		SIGN. AND DATE			
BHARAT HEAVY ELECTRICALS LTD.		NAME		DATE	
HYDERABAD		SA		01.05.13	
DEPT.		MMRAO		ITEM NO.	
GRADE OF		REF. TO		03	
C/A/F		RDDG435-0519-1010			
TITLE		DRAWING NO.		REV.	
FLANGE II		RDDG435-0519-1013			
SHEET NO.		NO. OF SHEETS			

(~1.6)

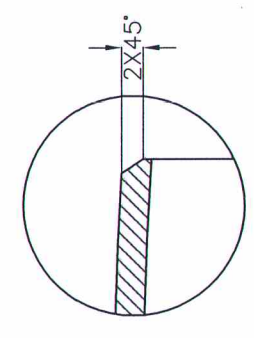
(ALL DIMENSIONS IN mm)

FIRST ANGLE PROJECTION

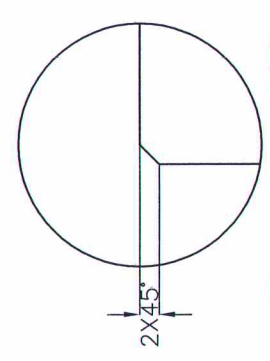
DWG. NO. RDDG435-0519-1013



Enlarged View of 'B'



Enlarged View of 'A'



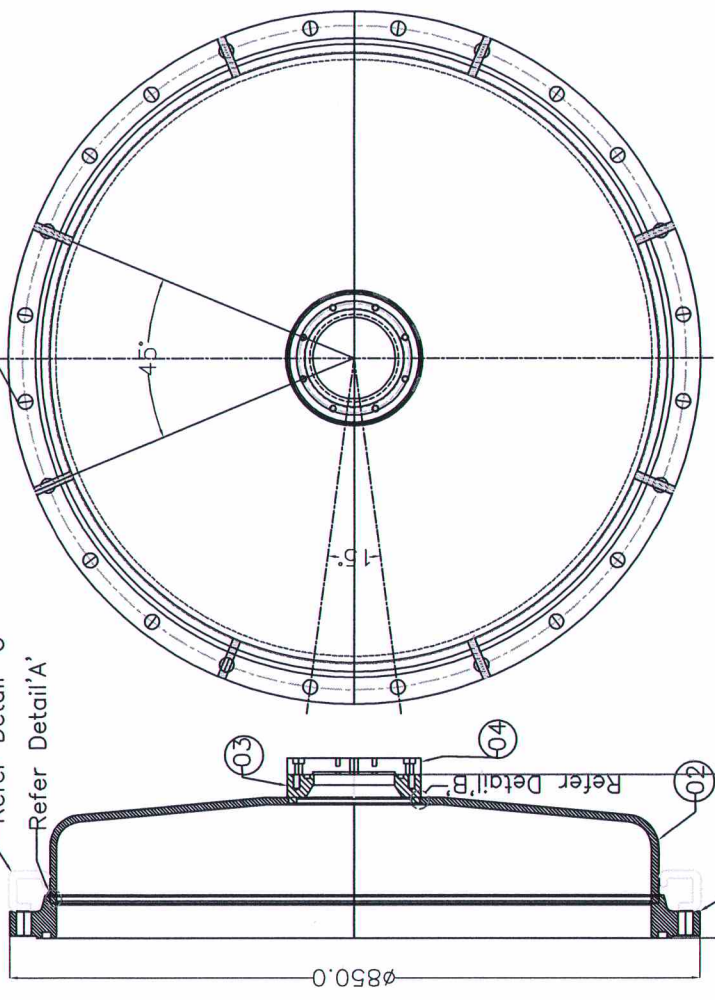
Enlarged View of 'C'

VAR. NO.	REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	SS-304L	12	UNIT WT.	QTY.

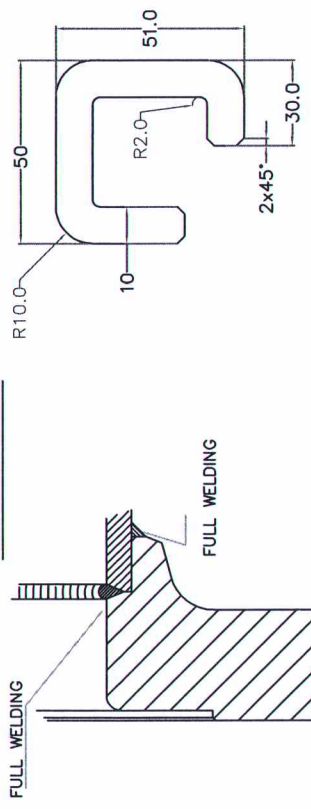
TYPE OF PRODUCT		NAME OF CUSTOMER		GSM-245	
BHARAT HEAVY ELECTRICALS LTD.		HYDERABAD		HYDERABAD	
REV.	DATE	ALTERED	CHECKED	ZONE	
DEPT.		SCALE		WEIGHT(KG)	
GRADE OF		GRADE OF		GRADE OF	
C/M/F		C/M/F		C/M/F	
CODE		CODE		CODE	
TITLE		TITLE		TITLE	
BRACKET		BRACKET		BRACKET	
DRAWING NO.		DRAWING NO.		DRAWING NO.	
RDDG435-0519-1014		RDDG435-0519-1014		RDDG435-0519-1014	
SHEET NO.		SHEET NO.		SHEET NO.	
NO. OF SHEETS		NO. OF SHEETS		NO. OF SHEETS	

24 Nos $\phi 18$ Clear holes @PCD 815.0

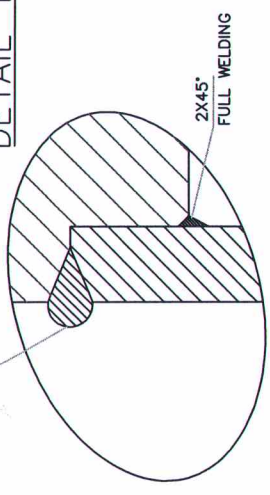
Refer Detail 'C'
Refer Detail 'A'



DETAIL 'A'



DETAIL 'B'



Detail 'C'
(Qty. = 08)

VAR. NO.	REMARKS	ITEM NO.	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	MATL. SPECN.	UNIT	WT.	QTY.
04	GAS VALVE COVER		RDDG 435 1133 416			SS-304L				01
03	FLANGE VI		RDDG435 1133 4160			SS-304L				01
02	DISH		RDDG435 0519 1022			SS-304L				01
01	FLANGE III		RDDG435 0519 1021			SS-304L				01

1. Dish and Flanges should be TIG/MIG welded with suitable SS Electrode.
2. The Root should be homogeneous and continuous.
3. pressure test as per enclosed specification.
4. Tested Assemblies to be Degreased, Sand blasted and Powder coated on outside.
5. Electropolish on inside surface.
6. Lifting Lugs should be fully welded to Flange and Dish.

GSM-245

TYPE OF PRODUCT		NAME OF CUSTOMER		SIGNATURE		DATE		NO. OF	
BHARAT HEAVY ELECTRICALS LTD.		HYDERABAD		SA		01.05.13		VAR.	
DEPT. CODE		SCALE		APPROV.		ITEM NO.		NO. OF	
C/A/F		NTS		MMRAO		01.05.13		ITEMS	
TITLE		RDDG435-0519-1020		REF. TO		RDDG435-0519-1020		REV.	
DISH END ASSY.		CARD CODE		DRAWING NO.		RDDG435-0519-1020		SHEET NO.	
								NO. OF SHEETS	

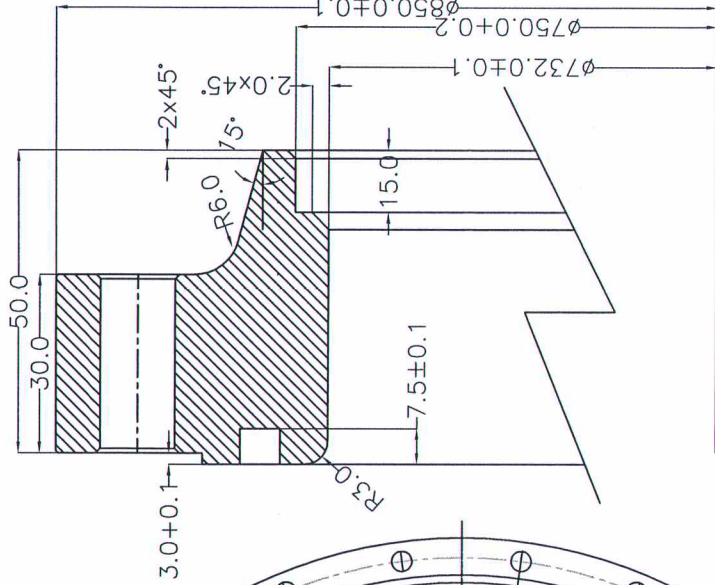
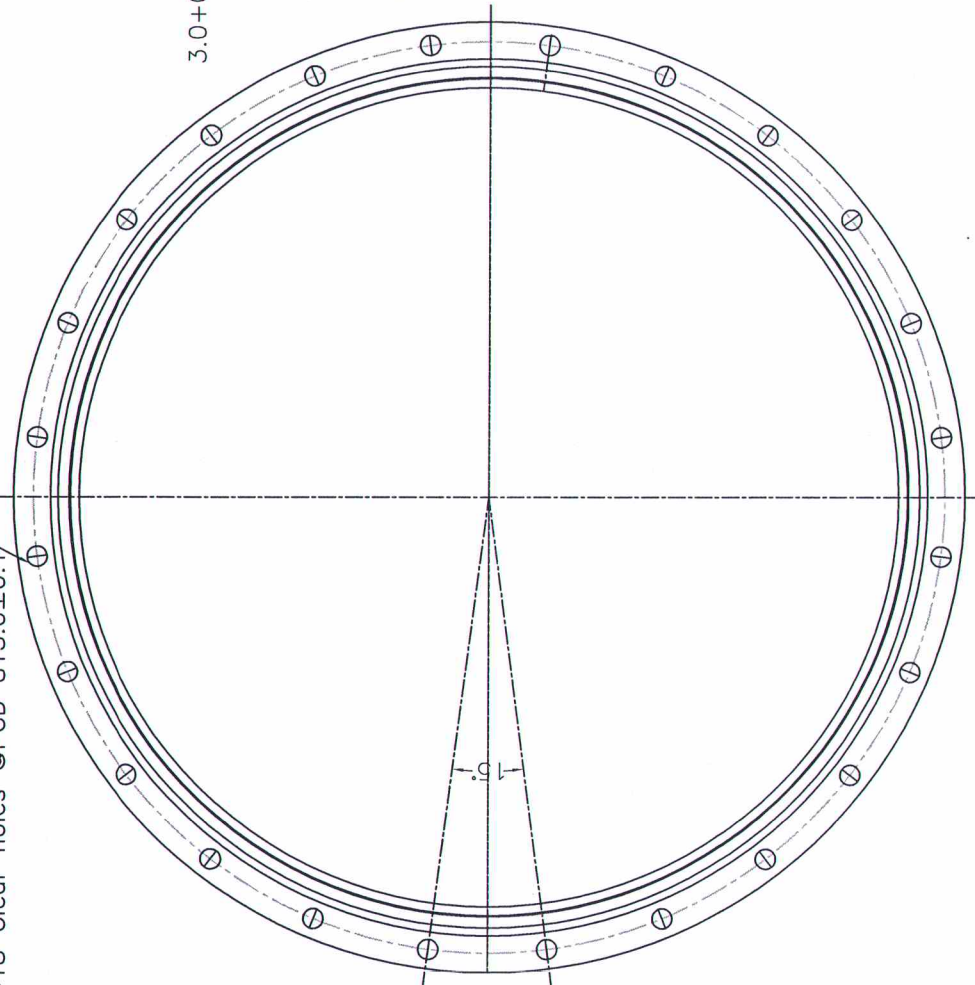
FIRST ANGLE PROJECTION

(ALL DIMENSIONS IN mm)

'A' 24 Nos $\phi 18$ Clear holes @PCD 815.0 ± 0.17

DRG. NO. RDDG435-0519-1021

(~1.6)



ENLARGED VIEW OF 'A'

VAR. NO.	REMARKS	ITEM NO.	DESCRIPTION	FLANGE	900X55mm	SS-304	UNIT WT.	QTY.
02								

1. O-Ring groove shall be finished in RA0.8.

TYPE OF PRODUCT		NAME OF CUSTOMER		GSM-245	
BHARAT HEAVY ELECTRICALS LTD.		HYDERABAD			
DEPT.	SCALE	WEIGHT(KG)	REF. TO	DATE	NO. OF
01	NTS			01.05.13	VAR.
CODE	GRADE OF	TOI DIAL	APPD	MMRAO	ITEM NO.
	C/A/F				
TITLE	FLANGE III				

REV.	DATE	ALTERED	CHECKED	ZONE

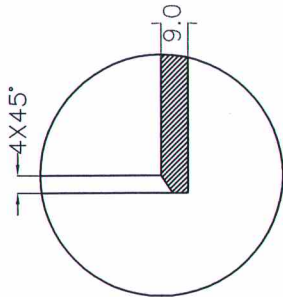
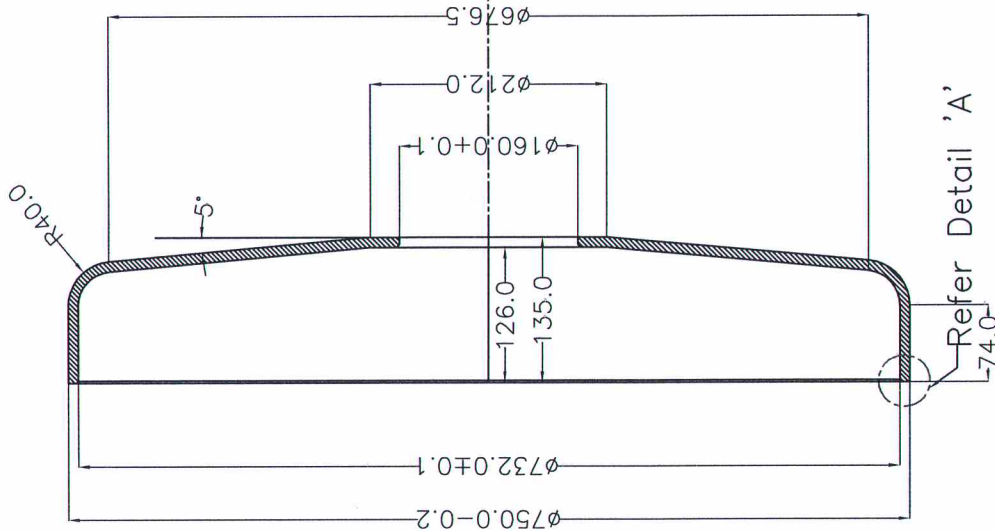
INVENTORY NO.	SIGN. AND DATE	REF. DRG. NO.

DRG. NO.
RDDG435-0519-1022

FIRST ANGLE PROJECTION

(ALL DIMENSIONS IN mm)

(~1.6)



VAR. NO.	REMARKS	ITEM NO.	DESCRIPTION	QTY.	SS Sheet	SS-304L	UNIT WT.	QTY.	ZONE

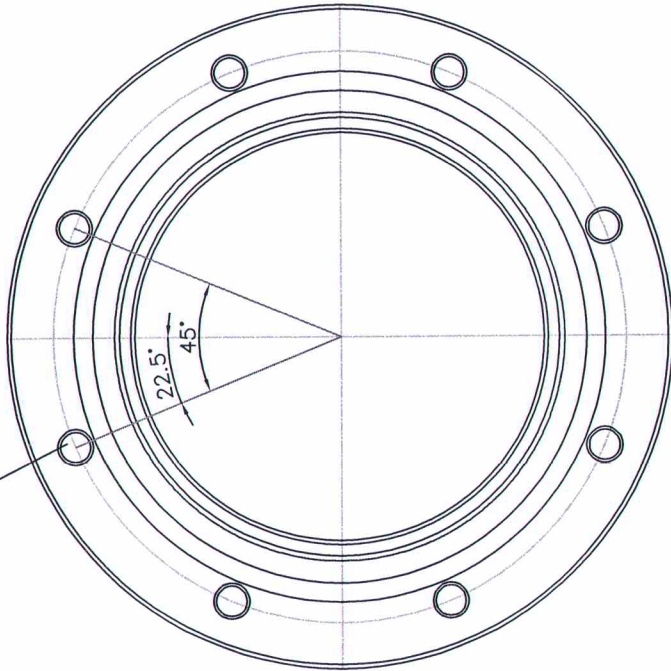
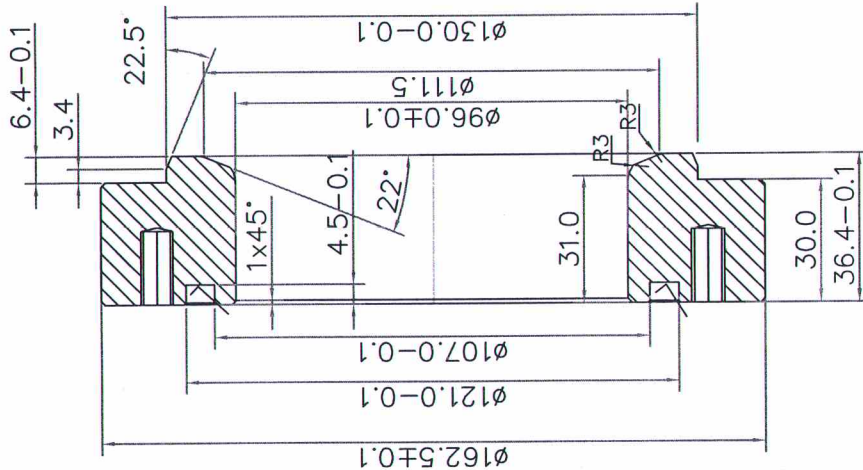
TYPE OF PRODUCT		NAME OF CUSTOMER		GSM-245	
BHARAT HEAVY ELECTRICALS LTD.		HYDERABAD			
DEPT. CODE	SCALE	WEIGHT(KG)	REF. TO	DRAWING NO.	REV.
01	NTS		RDDG435-0519-1020	RDDG435-0519-1022	
DATE	ALTERED	CHECKED	ZONE	SHEET NO.	NO. OF SHEETS

FIRST ANGLE PROJECTION

0914 5311 55 4 50 RD
ON 200

(ALL DIMENSIONS ARE IN mm)

8 No. M8 TAPS @ 135.0 PCD, 20.0 deep

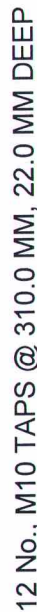


ALL SHARP EDGES SHALL BE MACHINED TO 0.4x45°
MARKED SURFACE SHALL BE FINISHED TO RA0.8

VAR. NO.	REMARKS	VAR. ITEM NO.	SS BLANK	DESCRIPTION	DRAWING NO.	IT. NO.	MATL. CODE	SS-304L	UNIT WT.	QTY.	SD

TYPE OF PRODUCT		NAME OF CUSTOMER		CGSM-145			
BHARAT HEAVY ELECTRICALS LTD.		HYDERABAD		RD DG 4 35 1133 4160			
REV.	DATE	ALTERED	CHECKED	REV.	DATE	ALTERED	CHECKED
ZONE	ZONE	ZONE	ZONE	ZONE	ZONE	ZONE	ZONE
DEPT.		SCALE		ITEM NO.			
CODE		NTS		NO.			
TITLE		FLANGE-III		REV.			
CARD CODE		RD DG 4 35 1133 4160		REV.			
SHEET NO.		NO. OF SHEETS		REV.			

INVENTORY NO.



DETAIL 'A'

TYPE OF PRODUCT	NAME OF CUSTOMER
...	...

GSM-400

				BHARAT HEAVY ELECTRICALS LTD.				HYDERABAD				DSN MB CKD MB APPRO MMRPO		NAME MB MB MMRPO		DATE 21.05.16 21.05.16 21.05.16		NO. OF VARS.	
DEPT.		GRADE OF TOL. DIM. C/A/F		SCALE  NTS		WEIGHT(KG) 11.0				REF. TO RD DG 4 35 0617 0212		ITEM NO. OF ITEMS		01					
TITLE		CARD CODE				DRAWING NO.		RD DG 4 35 0617 0212		1		REV.							
FLANGE								RD DG 4 35 0617 0212B				SHEET NO.		NO. OF SHEETS					

ALL SHARP EDGES SHALL BE MACHINED TO 0.4x45°

[illegible]



Marked inner surface shall be finished to RA0.8.
All sharp corners shall be machined to 0.4x45°.

REV.	4130A	SHEETS
------	-------	--------

TYPE OF PRODUCT		CGIS-145	
NAME OF CUSTOMER		BHARAT HEAVY ELECTRICALS LTD. HYDERABAD	
	DRN	NAME	NO. OF
	ORD	KSRAO	VAR.
APPO	AL	DATE	04.01.12
	MRRAO	04.01.12	01
DEPT.	SCALE	ITEM	NO. OF
GRADE OF		NO.	ITEMS
TOL. DIM.		RD DG 4 35 1133 4130A	1
C/A/M/F	NTS	REV.	
CODE	CARD CODE	DRAWING NO.	
TITLE	SUPPORT PLATE		
		RD DG 4 35 1133 4130A	
		NO. OF SHEETS	

[illegible]

CGSM-145

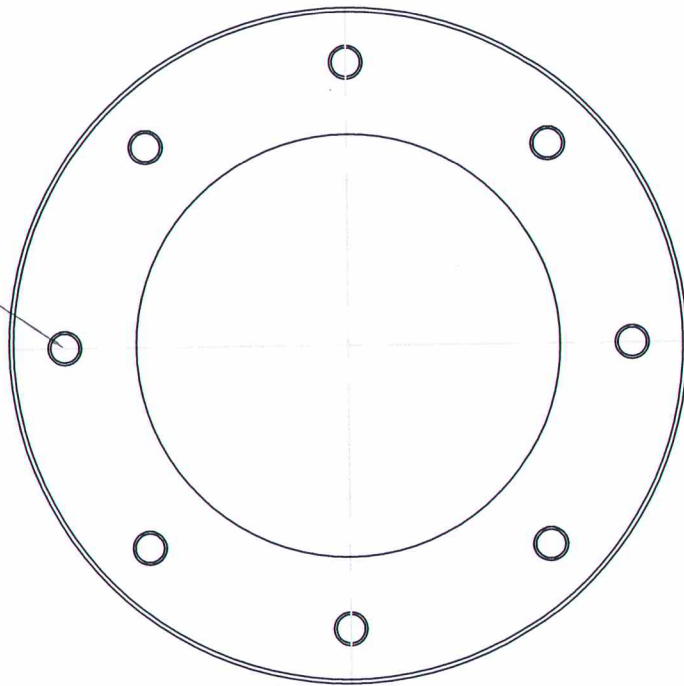
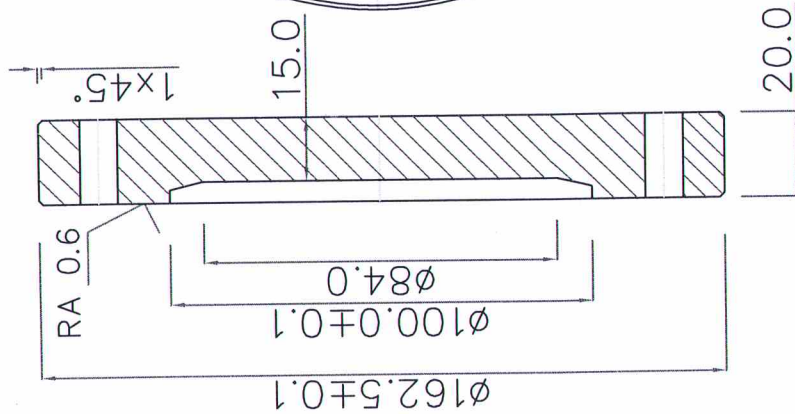
TYPE OF PRODUCT	NAME OF CUSTOMER
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
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39	40
41	42
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45	46
47	48
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57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

ALL SHARP EDGES SHALL BE MACHINED TO 0.4x45°

BHARAT HEAVY ELECTRICALS LTD. HYDERABAD										DRN	NAME KSRKO	SIGN 	DATE 04.01.12	NO. OF VARS 01
										CDD	AL		04.01.12	
										Appd	MMRAO		04.01.12	
										DEPT.	SCALE	WEIGHT(KG)	REF. TO	ITEM NO. OF NO. ITEMS
										CODE	 NTS		RD DG 4 35 1133 4130	1
										GRADE OF WORK C/M/P				
										TITLE	DRAWING NO.	REV.		
											CARD CODE		RD DG 4 35 1133 4130B	

$$\begin{pmatrix} 2 \\ 1.6 \\ 9 \end{pmatrix}$$

8 NO., 9.2 CLEAR HOLES
@135±0.07 PCD WITH 0.4X45° C/F

[illegible]

TYPE OF PRODUCT		GSM-420		NO. OF ITEMS		REV.	
NAME OF CUSTOMER		BHARAT HEAVY ELECTRICALS LTD. HYDERABAD		DATE 25.08.17		VAR. 01	
		DRN	NAME	SIGN.	DATE	NO. OF ITEMS	
		CHK	AL		25.08.17		
		APPR	MMRAO		25.08.17		
DEPT.		SCALE		REF. TO		NO. OF ITEMS	
GRADE OF TOL DIM.		NTS		RD DG 4 35 0617 0980		1	
CODE		C/M/F		DRAWING NO.		REV.	
TITLE		DUMMY PLATE		RD DG 4 35 0617 4161		NO. OF SHEETS	
				SHEET NO.			

[illegible]