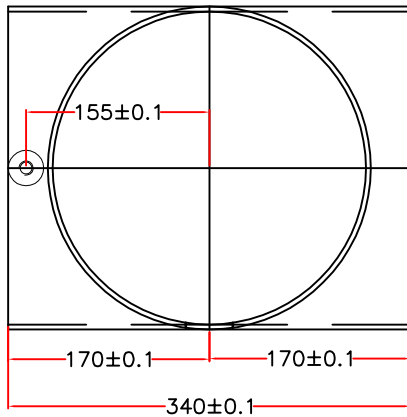
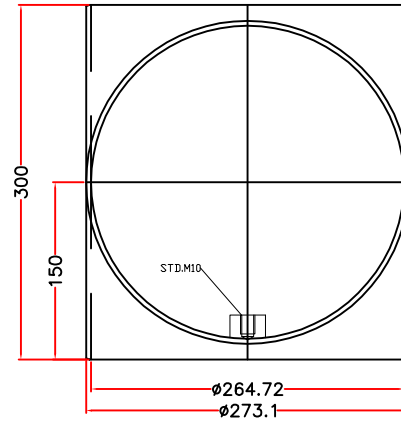
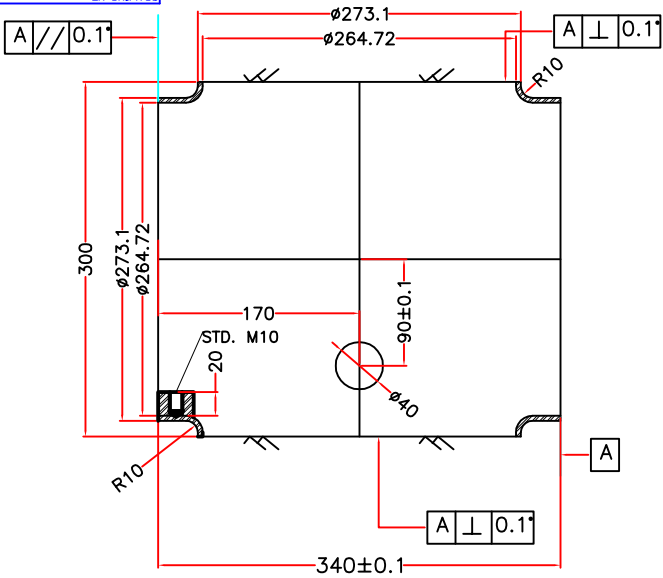


RDDG43513050_2111R

(~3.2)



NOTE:

1. ENDS SHOULD BE PARALLEL (IN 0.2 MM) AND COAXIAL.
2. PULLOUTS AND THE BRANCH FLANGES SHOULD BE PERPENDICULAR TO THE CENTAL PIPE AXIS
3. THE PIPE SHOULD BE WITH MINIMUM OVALITY AND STRAIGHT.

25	001	273.1 O.Dx4.19 TK.x340 LG. ERW STAINLESS S. PIPE GRADE AISINO-304	SS-304	-	01
75	78	79	27	29	30
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	STD
38	39	40	41	42	43
VAR.	MATL. SPCN.	54	UNIT WT.	65	78
			QTY.	71	ZONE
28 CARD TYPE-1			28 CARD TYPE-2		

ADDITIONAL INFORMATION				TYPE OF PRODUCT OR NAME OF CUSTOMER / PROJECT			
STATUS OF DRAWING				33kV/40kA DOUBLE BUS GIS			
DISTRIBUTION OF PRINTS				DR. NAME SIGN DATE NO. OF VAR			
SWE	SWM	TCX		DR. CKD.	MMR	10.02.14	
1	3	1		APPD.	NB		
REV. DATE ALTERED CHECKED APPROVED				DEPT. SWE UNTOL. DIMS. GR. SCALE WEIGHT < K.G. > REF. TO ASSY. DRG. ITEM NO. NO. OF ITEM			
REV. DATE ALTERED CHECKED APPROVED				409 1:1			
REV. DATE ALTERED CHECKED APPROVED				ENCLOSURE-1U (R)			
REV. DATE ALTERED CHECKED APPROVED				RDDG43513050_2110R			
REV. DATE ALTERED CHECKED APPROVED				RDDG43513050_2111R 00			
REV. DATE ALTERED CHECKED APPROVED				SHEET NO. 01 NO. OF SHEETS 01			

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2 317 00 0166-300-301

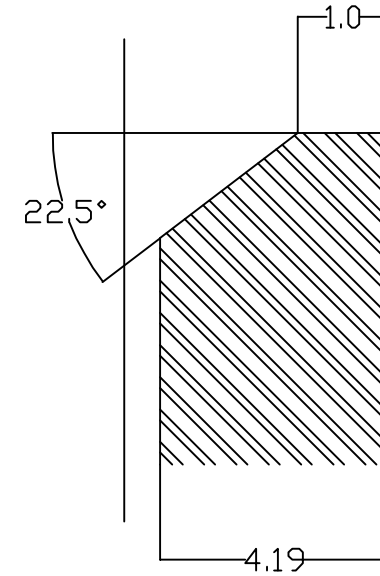
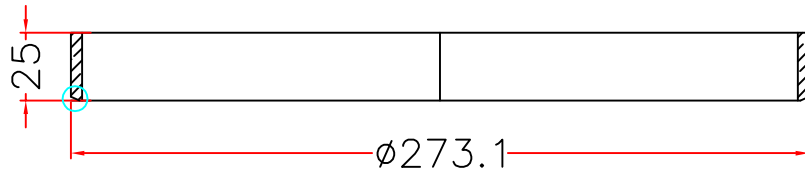
REF. DRG. NO.

SIGN & DATE

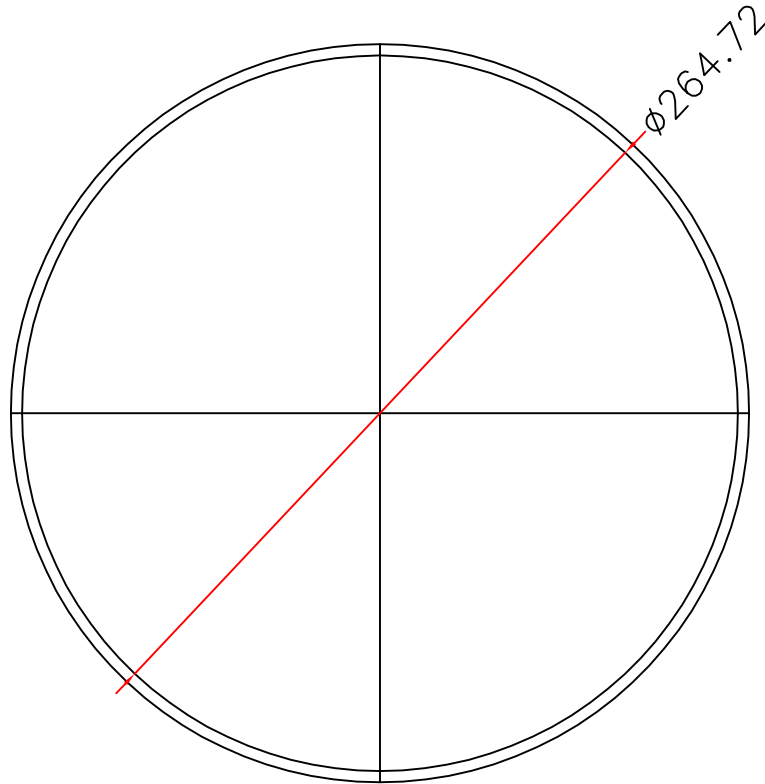
INVENTORY NO

DRAWING NO. RDDG43513050_2112

(~3.2)



DETAIL-A



INVENTORY NO. SIGN & DATE 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.

25	001	273.1 O.Dx4.19 TKx25 LG. ERW STAINLESS S. PIPE GRADE AISI304	AA10740	01					
75	79	27	29	34	45	54	58	65	72
REMARKS	VAR. NO.	ITEM NO.	DESCRIPTION	DRAWING NO.	MATL. CODE	UNIT	WT.	QTY.	ZONE

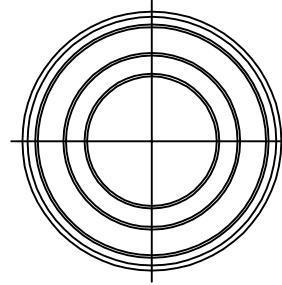
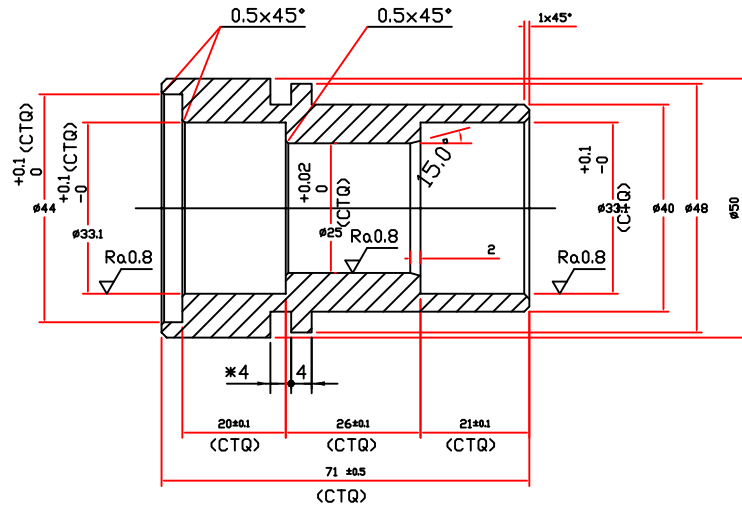
ADDITIONAL INFORMATION				TYPE OF PRODUCT 33kV/40kA DOUBLE BUS GIS			
STATUS OF DRAWING				NAME OF CUSTOMER / PROJECT			
DISTRIBUTION OF PRINTS				DR. SNK CKD. MMR APPD. NB			
SWE	SWM	TCX		DEPT. SWE	UNTL. DIMS. GR.	SCALE	WEIGHT < K.G. >
1	3	1		409		1:1	
REV.	DATE	ALTERED	REV.	DATE	ALTERED	REV.	DATE
		CHECKED			CHECKED		
		APPROVED			APPROVED		
TITLE EXTENSION PIPE				REF. TO ASSY. DRG. RDDG43513050_2110M&B			
				DRAWING NO. RDDG43513050_2112			
				SHEET NO. 01			
				NO. OF SHEETS 01			

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FIRST ANGLE PROJECTION

(ALL DIMENSIONS ARE IN mm)

DRG. NO. RDDG43513050_2113



NOTE :-

1. FINISHED (FINAL) DIMENSIONS ARE GIVEN IN THIS DRG. HOWEVER THE SUPPLIER SHOULD PROVIDE NECESSARY MACHINING. ALLOWANCES AS FINAL MACHINING. IS TO BE DONE AFTER WELDING TO ACHIEVE DESIRED ACCURACY.

CTQ :- CRITICAL TO QUALITY

59	64	65	75	78	79	25	27	29	58	59	60	77	29	31	34	45	55	56	57	58	65	72		
VAR.00	REMARKS		VAR. NO.	ITEM NO.	DESCRIPTION			STD	DRAWING NO.				29	31	34	MATL. CODE	45	55	56	57	58	UNIT WT.	65	72
												32	33	46	MATL. SPCN.	54	UNIT		68	71	QTY.			

28 — CARD TYPE-3				28 — CARD TYPE-1				28 — CARD TYPE-2							
ADDITIONAL INFORMATION				STATUS OF DRAWING				DISTRIBUTION OF PRINTS				33kV / 40kA DOUBLE BUS GIS			
O/C - 1				TCX - 1				SWM - 3				HAKj gsoh bysfDV&dYl fyfeVsM HAKsiky BHARAT HEAVY ELECTRICALS LTD. BHOPAL			
REV. 04				REV. 03				REV. 02				REV. 01			
DATE 07.03.09				DATE 5.7.97				DATE 19.3.96				DATE 19.3.96			
ALTERED				ALTERED				ALTERED				ALTERED			
CHECKED				CHECKED				CHECKED				CHECKED			
APPROVED				APPROVED				APPROVED				APPROVED			
SSA				G.PRASAD				G.PRASAD				G.PRASAD			
RRR				P.S.SONKAR				DKL				DKL			
HRP				D.K.DIKSHIT				D.K.DIKSHIT				D.K.DIKSHIT			
CTQ ADDED.				DIA 48 & DIM 4* WERE NOT ON.				SHAPE MODIFIED TO SUIT WELDING NOTE 2 ADDED				RFT BODY			
(DCA NO. 28627)												RDDG43513050_2110M&R			
												RDDG43513050_2113			
												RDDG43513050_2110M&R			

INVENTORY NO. SIGN. & DATE REF. DRG. NO.

PSGSG2012 -13/028B	Product Specification For <u>S.S ENCLOSURES</u>		Product	GVM36
			Rev	01
			Date	05.01.2013
1.0	<p><u>Application:</u></p> <p>The stainless steel Enclosure assemblies to Drawing. Nos. RDDG43513050_2110R, 1710 & 1721 are used for gas filled applications. The gas pressure in this metal enclosure is maintained at 1 to 1.5 bars. The enclosure assembly shall meet following specifications.</p> <p><u>SPECIFICATIONS:</u></p> <p>2.1 Material: Low Carbon Austenitic <u>stainless steel</u> confirming to AISI-304L.</p> <p>2.2 Standard seamless / ERW pipe in schedule is acceptable. The pipe shall be pulled out using hydraulic / spinning equipment for RDDG43513050_2110R as per desired sizes.</p> <p>2.3 The flanges shall be manufactured using H-Boring/CNC to drawings after <u>TIG</u> welding only. The flanges shall be machined as per instructions and maintaining parallelism of faces and perpendicularity as prescribed. To ensure parallelity, it is must to machine the components after welding all the sections as prescribed. The flange sealing surfaces shall be polished to RA 0.6/RA 0.8 or better and the bolting holes shall be machined fine, using jig borer/ CNC milling, and shall have uniform chamfer. The tolerances for parallelism, wherever not mentioned in the drawing, shall be within 0.1°. Any sharp corners shall be removed as per the drawing.</p>			
Page 1/3	PSGSG2012-13/028B		Signature	

PSGSG2012 -13/028B	Product Specification For <u>S.S ENCLOSURES</u>	Product	GVM36
		Rev	01
		Date	05.01.2013
2.4	Weld splatter, if any, shall be removed by chipping or grinding on completion of the weld. Particular care should be taken to avoid any splatter on the inside of the chamber, at the joint or other locations.		
2.5	The welded structure shall be tested for Dye penetration test and report shall be generated and submitted to BHEL.		
2.6	The supplier shall stress relieve the tested component to ensure zero post supply deformation.		
2.7	The tested assembly should be cleaned, degreased and prepared for pressure test. The assembly shall be tested at 2.0 bar pressure for 4 hours and pressure drop shall be recorded and communicated to BHEL. In case of unallowable pressure drop (>0.5%), a coarse leak check shall be performed. The leak shall be rectified and the test repeated to satisfaction. Components indicating drop in pressure during this test will not be accepted. The arrangement shall be kept at 4 bar for 15 minutes prior to this test to verify pressure withstanding capabilities specified in drawing.		
2.8	The enclosure shall be electro-polished on the inside surface using moderate current densities.		
2.9	The assemblies further shall be sandblasted on the outer surface and powder coated (> 50 Micron) as specified in drawing. During this operation all flanges shall be masked at the sealing surfaces and at the rim.		
Page 2/3	PSGSG2012-13/028B		Signature

PSGSG2012 -13/028B	Product Specification For <u>S.S ENCLOSURES</u>	Product	GVM36
		Rev	01
		Date	05.01.2013
2.10	The dimensional checks, Dye penetration test and the leak test shall be carried out in presence of BHEL inspector.		
2.11	<u>Following certificates shall be furnished for acceptance of the component:</u>		
	2.11.1 Material source certificate,		
	2.11.2 Material test certificate ,		
	2.11.3 DP tests.		
	2.11.4 Pressure drop test and pressure withstand test Report.		
	2.11.5 Electro-polishing schedule		
2.12	A certified copy of above documents shall be sent along with the delivery note.		
3.0	<u>Packing :</u>		
	The accepted component shall be packed in wooden boxes with suitable PVC covers on the flanges to prevent transit damages. A thick polyethylene cover shall be used to seal to component from ingress of moisture and water. For transit time higher than 2-weeks, adequate quantity of moisture absorbent shall also be placed with the component.		
Page 3/3	PSGSG2012-13/028B		Signature