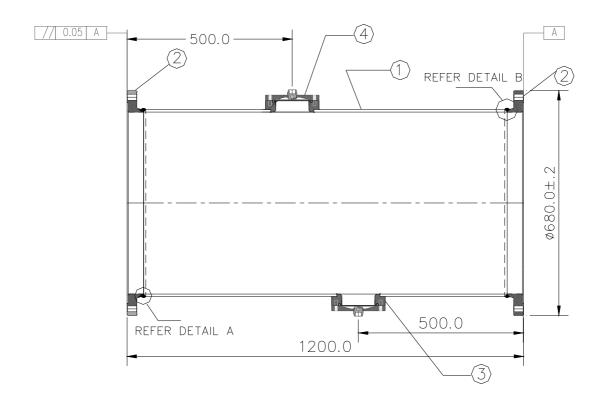
PSGSG108	Process Specifications	Drg.No	. RD DG 4350617500		
	for	Date	16.06.08		
		2400	10.00.00		
	Straight Enclosure	Product	GSM-400		
1.0	APPLICATION:				
	Straight Enclosure (Drg. No. RD DG 4 35	0617 0500	is a coupling element for		
	a pressurized, gas insulated power equip	oment. The	gas pressure in this metal		
	enclosure is maintained around 0.75 MP	a. This leak	tight assembly shall meet		
	following specification.				
2.0	SPECIFICATIONS:				
2.1	SHAPES: Refer drawings				
2.1	OTIAL EG. Note: drawings				
	i) Assembly: RD DG 4 35 0617 0500				
	ii) Straight pipe: RD DG 4 35 0617 0502				
	iii) End Flange: RD DG 4 35 0617 0501				
	iv) Side Port: RD DG 4 35 0617 0503				
	(v) Cover : RD DG 4 35 0617 050	)4			
2.2	Material: Low Carbon austenitic stainles	ss steel conf	irming to AISI-304/316.		
2.3	Fabrication PROCESS: Standard seam	less or ERW	/ (straight / spiral) tubular		
	sections shall be used for construction. Fabricated / drawn sections can be				
	used for other areas not confirming to standard pipe schedules.				
	The flange sections shall be manufactured and welded to tubes/shells,				
	maintaining parallelism of faces and perpendicularity as prescribed. The tube				
	and flange assembly shall then be machined for details and drawing				
	dimensions in minimum settings (preferably one). The flange sealing surfaces				
	shall be polished to RA 0.8 or better and the bolting holes shall be machined				
	fine. Angular tolerances, wherever not mentioned in the drawing, shall be				
	within 0.1°. All sharp corners shall be removed (default chamfer of 0.5x45°				
	shall be used for unspecified chamfers).				
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	Process Specifications	Drg.No.	RD DG 435 0617500	
PSGSG108	for	Date	16.06.08	
	Straight Enclosure			
	Straight Enclosure	Product	GSM-400	
	All welded joints shall be TIG / MIG welded with suitable SS electrode. The welded sections shall be sized as per drawing and verified / tested using Dye Penetration (DP) technique at all stages of welding. Inside edges/weld shall be fused to obtain near smooth weld surface. Weld splatter shall be removed and weld surfaces polished using suitable emery.  In case of drawn profiles, the profile shall be drawn and size verified by			
	internal quality. No smithy shall be permitted for adjusting mismatch in size of profiles in view of defect/crack inception.			
2.4	Pressure test: The DP tested assembly should be cleaned, degreased and prepared for pressure test. The assembly shall be pressurized at 0.75 MPa and lowered in a water tank for verification of air leakage. In situation of no visual indication the pressure shall be maintained for 4 hours and pressure drop during this period shall be recorded. In case of pressure drop a course leak check shall be performed using suitable tracer gas to locate the leak source. The leak shall be rectified and the test repeated to satisfaction. Components indicating drop in pressure during this test will not be accepted.  In case of order quantity exceeding 10 numbers, one sample assembly shall be proof pressurized to 14 bar (hydraulic) for 15 minutes prior to this test to			
	verify pressure withstanding capabilities of seams and section used.			
2.5	<b>Stress Relieving:</b> The supplier shall stress relieve tested component to ensure zero post manufacturing deformation.			
2.6	<b>Surface Treatment:</b> Stress relieved component shall be electro-polished on the inside surface using moderate current densities.			
Page	PSGSG-108.doc	Signa	ture	
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PSGSG108	Dungang Granifications	Drg.No.	RD DG 435 0617500			
Pagagioo	Process Specifications					
	for	Date	16.06.08			
	Straight Enclosure	Product	GSM-400			
2.7	The assemblies further shall be sandblasted on the outer surface and powde					
	coated (> 50 Micron) to shade as specified on drawing. During this operation					
	all flanges and sealing surfaces shall be masked at the sealing surfaces and at					
	the rim.					
	NODECTION TO COLUMN	1 1.1				
3.0	<b>INSPECTION:</b> The final dimensional checks and the leak test shall be carried					
	out in presence of BHEL inspector.					
4.0	DACKING. The accepted component shall be packed in weeden beyon with					
4.0	<b>PACKING:</b> The accepted component shall be packed in wooden boxes with suitable PVC covers (dummies, thickness 8-10mm) on the flanges to prevent					
	ingress of foreign material in transit. The component shall be then covered with					
	a thick polyethylene cover providing addition protection to external surface of					
	the component.					
	•					
	For transit time higher than 2-weeks, ade	quate quant	ity of moisture absorbent			
	shall also be placed with the component.					
5.0	<b>DOCUMENTS:</b> A certified copy of following documents shall be sent along with					
	the delivery note.					
	2.9.1 Material source certificate,					
	2.9.2 Material test certificate ,					
	<ul><li>2.9.3 Stage wise DP tests,</li><li>2.9.4 Pressure drop test and pressure withstand test report,</li><li>2.9.5 Electro-polishing schedule,</li><li>2.9.6 Guaranteed against all manufacturing defects.</li></ul>					
	2.5.0 Guaranteed against air mandraetuning	g derects.				
6.0	<b>GENERAL:</b> In case of doubts in specifications, please contact Dr. M. MOHANA RAO, MANAGER, BHEL R&D for clarifications. E-mail ID of Dr. Rao is <a href="mailto:mmrao@bhelrnd.co.in">mmrao@bhelrnd.co.in</a> .					
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## REPRESENTATIVE DRAWINGS



(a). Straight Enclosure

