

Appendix-I

Sr.No.	Name of the item with Specifications	Qty.
	Liquid Nitrogen Pressurized Cylinder	01 No.
1	Gross Capacity : 200 liters	
2	Working Fluid : Liquid Nitrogen	
3	Configuration : Vertical	
4	Inner material of cylinder : Stainless steel	
5	Outer material of cylinder : Austenitic stainless steel	
6	Transfer line fitting type : Standard	
7	Insulation : Super vacuum insulation	
8	Construction : It should be double walled and vacuum jacketed	
9	Max allowable working pressure : 22-26 kg/cm ²	
10	Design temperature : - 196°C to + 40°C	
11	Set pressure of the cylinder : 15 kg/cm ²	
12	Static evaporation rate: Maximum 3% per day of net volume	
	OTHER IMPORTANT REQUIREMENTS	
1	Vent valve : Required (3/8" NPT)	
2	Liquid fill and withdrawal valve : Required (3/8" NPT)	
3	Gas withdrawing valve : Required (3/8" NPT)	
4	Pressurizing valve : Required (3/8" NPT)	
5	Safety valve : Required (1/4" NPT)	
6	Bursting disc : Required (set pressure 30 bar)	
7	Pressure gauge : Required (0-35 bar)	
8	Capacitance type digital level gauge : Required	
9	Evacuation port cum safety device : Required	
10	Combined pressure regulator cum safety device : (1/4" NPT)	

11	Support Structure: Heavy-duty foot ring and large diameter handling ring with four support for the easy movement	
12	Pressure relief valve : Required	
13	Vacuum warranty : 2-year minimum	