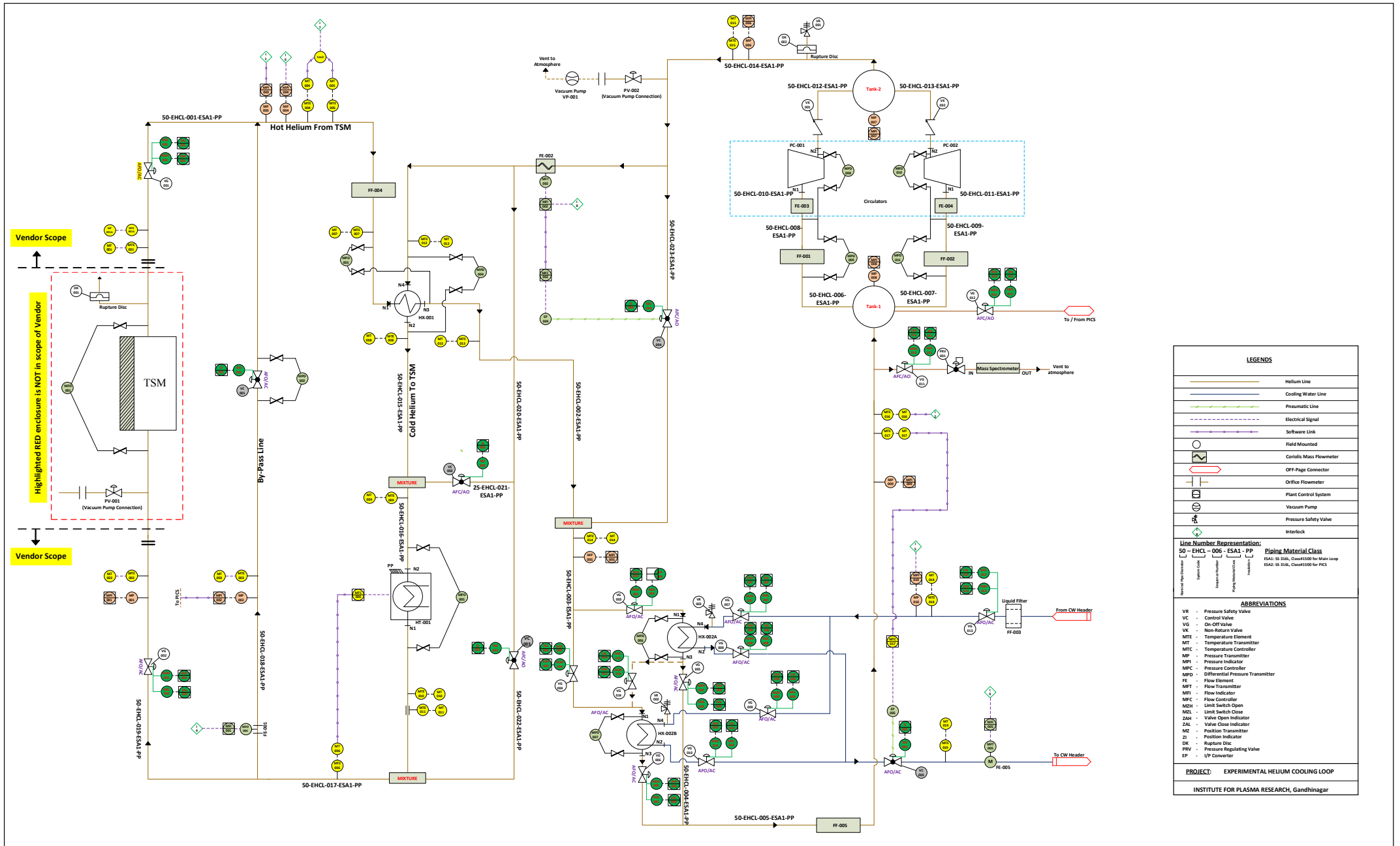
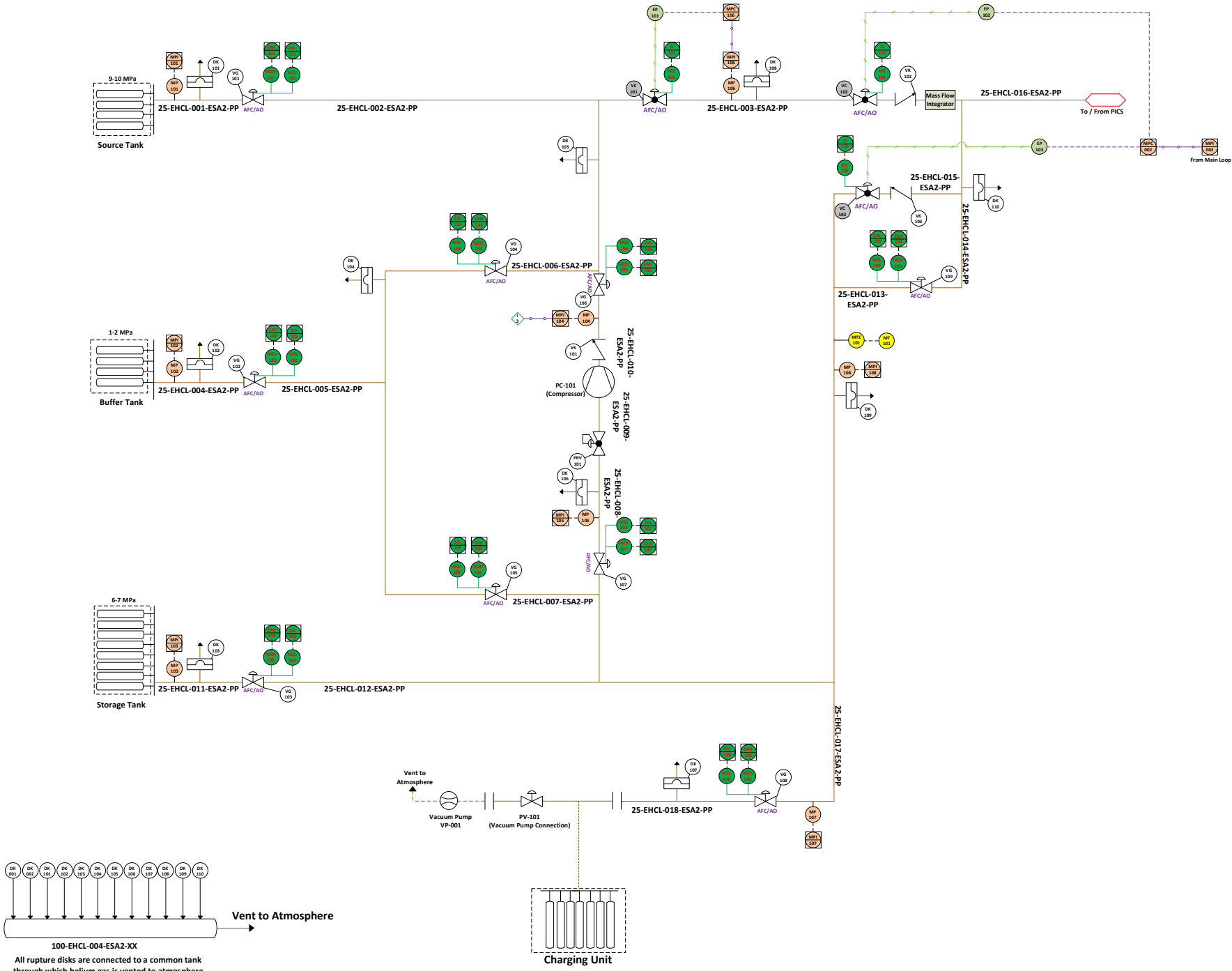


Annexure-2 EHCL P & ID

EHCL Process and Instrumentation Diagram



LEGENDS	
	Helium Line
	Cooling Water Line
	Pneumatic Line
	Electrical Signal
	Software Link
	Field Mounted
	Coriolis Mass Flowmeter
	OFF-Flag Connector
	Orifice Flowmeter
	Plant Control System
	Vacuum Pump
	Pressure Safety Valve
	Interlock
Line Number Representation: 50 - EHCL - 006 - ESA1 - PP Piping Material Class <small>Process Equipment System Code System Number Piping Material Class</small> 50: EHCL 006: Main Loop 006: Main Loop 006: Main Loop ESA1: IS 313L, Class#1500 for Main Loop PP: ASME B31.3, Class#1500 for PICS	
ABBREVIATIONS VR - Pressure Safety Valve VC - Control Valve VGE - On-Off Valve VNR - Non-Return Valve TME - Temperature Element MT - Temperature Transmitter MTC - Temperature Controller MP - Pressure Transmitter MPI - Pressure Indicator MPC - Pressure Controller MDP - Differential Pressure Transmitter FE - Flow Element MFT - Flow Transmitter MFI - Flow Indicator MFC - Flow Controller MSH - Limit Switch Open NCL - Limit Switch Close ZAH - Valve Open Indicator ZAL - Valve Close Indicator MZ - Position Transmitter ZI - Position Indicator DR - Rupture Disc PRV - Pressure Regulating Valve EP - I/P Converter	
PROJECT: EXPERIMENTAL HELIUM COOLING LOOP INSTITUTE FOR PLASMA RESEARCH, Gandhinagar	



100-EHCL-004-ESA2-XX
 All rupture disks are connected to a common tank through which helium gas is vented to atmosphere

Charging Unit