

**QUALITY ASSURANCE PLAN FOR DCS - 50 SCM#**

MANUFACTURER'S NAME & ADDRESS:											
					QAP NO:						
					Client: M/s. HPOIL GAS						
					Project: TWIN STREAM CNG DECOMPRESSION SKID						
					PO No.						
Sr.No.	Component/ Test Description	Characteristics	Type of check	Class	Quantum of check	Reference Documents	Acceptance Norms	Format of Records	Inspection by		Remarks
									Mfg.	Client/TPI/A	
1	Drawings & Sizing Calculations										
1.1	P&ID, GAD, BOM, QAP for Skid, Final inspection Documentation	Complete Skid	Submittals	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	Manufacturers Format	-	A	-
2	Brought Out Items Identification & Testing/ Inspection										
2.1	Ball Valves, Check Valves	MTC for Valves	sr. no. Verification	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
		Body Hydro Test	Leak test	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
		Seat Leakage test	Seat test	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
2.2	High Pressure Filter	MTC for High Pressure Filter	MTC Review	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
2.3	High Pressure SS Tubes	MTC for High Pressure SS Tubes	MTC Review	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
2.4	High Pressure SS Tube Fittings	MTC for High Pressure SS Tube Fittings	MTC Review	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
2.5	Pipe, Pipe Fittings, Flanges,	MTC, Size, Class & Dimensions	Chemical analysis, Physical Test, size & Rating	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
2.6	Pressure gauges	Calibration, Range, Size, End Connections	Verification	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
3	Electrical heat tracing cable & installation										
3.1	Heat tracing cable	MTC Heat tracing cable	MTC Review	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
3.2	Flameproof junction boxes	PESO/ CIMFR Certificate for Flameproof box	Review	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC/ Compliance	P	R	-
3.3	Electrical heat tracing cable & installation	Visual/ Performance	Visual Test	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	Internal Test Report	P	R	-
4	Testing for Interconnecting MS Piping										
4.1	Hydro Testing of Interconnecting MS Piping	Hydro Testing at 28.5 Barg for 150# (Holding Time - 30 min.)	Strength	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	Internal Test Report	P	R	-
5	Pressure Regulators, CRV										

5.1	Pressure Regulators, CRV	Material TC for Body & Trim	Chemical analysis & Physical Test	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	MTC	P	R	-
5.3		Leak Test	Leak test	Major	100%			Internal Test Report	P	R	-
5.4		Set Point	Visual & measurement	Major	100%			Internal Test Report	P	R	-
6	Final Inspection of Skid Assembly										
6.1	Final Dimensional/ Visual Inspection	Complete Skid	Visual Inspection	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	Internal Test Report	P	R	-
6.2	Painting of skid	Painting	Visual Inspection	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	Internal Test Report	P	R	-
6.3	Final Inspection of Skid Assembly	Set Point test of PRV, Pneumatic test of skid at 7 kg/cm2	Performance Test	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	Internal Test Report	P	W	-
7	Final Documentation										
7.1	Release Note by TPIA,Material test certificate for flanges, fittings etc. Calibration certificate, GAD, P&ID, Final FAT Report, Hydro test Reports, Test Certificate of PRV, CRV	History Docket	Verification of Records	Major	100%	Approved Specifications as per PO/ P&ID/ BOM	Approved Specifications as per PO/ P&ID/ BOM	History Docket	-	-	-
Mfg : Manufacturer; P : Performer; W : Witness ; R : Review ; A: Approval; RW: Random Witness ; V : Verification											
Prepared By:			Reviewed By:				Approved By:				