








OWNER:  شرکت سست و سویی توهم ایرانیان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	INSTRUMENT INDEX FOR EMERGENCY INSTRUMENT AIR COMPRESSOR							 Netherlands	
MC :   شرکت سست و سویی توهم ایرانیان (سهامی خاص)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-72B	BU	20	VD	303	IN	INX	0083	Rev.:	Page
								00	1 of 3

INSTRUMENT INDEX FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

 شرکت سست و سویی توهم ایرانیان (سهامی خاص)	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	IFA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	Oct /11/2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

00	23/09/2021	For approval	TvT	KP	LdM	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

Reply sheet shall be submitted by vendor.
 PID, Data sheet, wiring and Hook-up document number shall be modified as per VPIs.
 This document will be finalized after P&ID and data sheet approval and considered all comments.
 Manufacturer and model no. to be specified in this document.

Please select as per standard range

1/2"

TAG NUMBER	SERVICE DESCRIPTION	INSTRUMENT TYPE	LOCATION	P&ID NUMBER	SYSTEM TYPE	I/O TYPE	SIGNAL TYPE	IS/WIS	ENGINEERING UNIT	STATE 0	STATE 1	SET POINT	SET POINT LL	SET POINT H	SET POINT HI	PROCESS CONNECTION	INSTRUMENT CONNECTION	B&B	TYPE B&B	TV	ISOLATION VALVE	PROTOCOL	WIRING DRAWING NUMBER	DATASHEET NUMBER	HOOK-UP DRAWING NUMBER	MANUFACTURER & MODEL NO.	PANEL OR LOCAL MOUNTED
PG-71101	Compressor Inlet Strainer Differential Pressure Transmitter	DIFFERENTIAL PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	-100...100	inbar	-	-	-	-	-	-	1/2"NPT-M	-	YES	2-WAY	YES	-	17811-428	17811-388	TBA	LOCAL	
PG-71102	Compressor Inlet Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	0...16	bar(a)	-	-	-	-	-	-	1/2"NPT-M	-	YES	2-WAY	YES	-	17811-428	17811-388	TBA	LOCAL	
PG-71105	Compressor Upstream After-Cooler Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	0...35	bar(a)	-	-	-	-	-	-	1/2"NPT-M	-	YES	3-WAY	YES	-	17811-428	17811-388	TBA	LOCAL	
PG-71106	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	17811-038	-	-	-	-	0...6	bar(a)	-	-	-	-	-	-	1/2"NPT-M	-	YES	2-WAY	YES	-	17811-428	17811-388	TBA	LOCAL	
TG-71104	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-038	-	-	-	-	0...60	°C	-	-	-	-	-	-	1/2"NPT-M	-	-	YES	NO	-	17811-428	17811-388	TBA	LOCAL	
TW-71104	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-038	-	-	-	-	-	°C	-	-	-	-	-	-	1 1/2" 300W RF	-	-	NO	-	-	17811-428	17811-388	TBA	LOCAL	
TG-71103	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-038	-	-	-	-	0...60	°C	-	-	-	-	-	-	1/2"NPT-M	-	YES	NO	-	-	17811-428	17811-388	TBA	LOCAL	
TW-71103	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-038	-	-	-	-	-	°C	-	-	-	-	-	-	1 1/2" 300W RF	-	-	NO	-	-	17811-428	17811-388	TBA	LOCAL	
IG-71101	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	17811-038	-	-	-	-	will be stated later	mm	-	-	-	-	-	-	1/2"NPT	-	-	NO	-	-	17811-428	17811-388	TBA	LOCAL	
PT-71103	Compressor Inlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...13.5	bar(a)	-	-	6.9	-	8.6	1/2"NPT-M	-	YES	3-WAY	YES	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
PT-71104	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	-1...5	bar(a)	-	-	3.5	-	-	1/2"NPT-M	-	YES	3-WAY	YES	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
PT-71107	Compressor Outlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	1...36	bar(a)	-	-	19 (load/st)	18.5	21 (unload/stop)	1/2"NPT-M	-	YES	3-WAY	YES	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
TT-71101	Compressor Inlet Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...80	°C	-	-	-	-	-	-	1 1/2" 300W RF	-	YES	NO	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
TW-71101	Compressor Inlet Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...200	°C	-	-	-	-	-	-	1 1/2" 300W RF	1/2"NPT-F	-	NO	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
TT-71102	Compressor Upstream After-Cooler Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	-	-	-	-	-	-	-	-	1 1/2" 300W RF	-	-	NO	-	17811-428	17811-388	TBA	LOCAL		
TW-71102	Compressor Upstream After-Cooler Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	-	-	-	-	-	-	-	-	1 1/2" 300W RF	-	-	NO	-	17811-428	17811-388	TBA	LOCAL		
FT-71101	Compressor Cooling Water Outlet Water Flow Transmitter	FLOW TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...5	m ³ /hr	-	-	2.3	-	-	-	to be advised	-	-	NO	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
VT-71101	Compressor Vibration Level Transmitter	VIBRATION TRANSMITTER	FIELD	17811-038	PLC	AI 4-20 mA (redundant)	ANALOG	IS	to be advised	mm/s	-	-	-	-	-	-	to be advised	-	-	NO	HART	17811-058	17811-428	17811-388	TBA	LOCAL	
XY-71101	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-038	PLC	DO 24VDC	DIGITAL	NIS	-	-	Open	Closed	-	-	-	-	1/4"NPT-F	-	-	-	-	-	17811-458	17811-388	TBA	LOCAL	
XY-71102	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-038	PLC	DO 24VDC	DIGITAL	NIS	-	-	Open	Closed	-	-	-	-	1/4"NPT-F	-	-	-	-	-	17811-458	17811-388	TBA	LOCAL	
XV-71102	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1/4"NPT-F	-	-	-	-	-	17811-458	17811-388	TBA	LOCAL	
PSV-71101	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1" 300W RF	-	-	-	-	-	17811-458	17811-388	TBA	LOCAL	
PSV-71102	Compressor Cooling Water Outlet Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-038	-	-	-	-	-	-	-	-	-	-	-	-	1" 300W RF	-	-	-	-	-	17811-458	17811-388	TBA	LOCAL	
HS-715-50-1	Emergency Shutdown Command	SIGNAL TO/FROM ESD	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	ESD	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
XXL-715-2	Common Alarm	SIGNAL TO/FROM ESD	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	Alarm	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KS-715	Interlock Switch Stop Compressor	SIGNAL TO/FROM FCS	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	Stop	Not Stop	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MS-715	Time Synchronisation	SIGNAL TO/FROM FCS	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	-	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Motor Running	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	Not_Running	Running	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Motor Fault	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	Fault	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Motor Start/Stop	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DO 24VDC	DIGITAL	-	-	Stop	Start	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Heater ON/OFF	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DO 24VDC	DIGITAL	-	-	On	Off	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Heater Fault	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	Fault	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Heater Running	SIGNAL TO/FROM DB	UCP	17811-038	PLC	DI 24VDC	DIGITAL	-	-	Not_Running	Running	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Tag number to be specified

Abbreviation to be specified. Please clarify about 'DB' ?

Redundant I/O shall be considered