







OWNER:  شرکت سست و سویی توهمه ایرانیان (سهامی خاص)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerechimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	INSTRUMENT INDEX FOR EMERGENCY INSTRUMENT AIR COMPRESSOR								
MC :  شرکت سست و سویی توهمه 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
								01	1 of 3

- Manufacturer and model no. shall be specified in next revision.

INSTRUMENT INDEX FOR EMERGENCY INSTRUMENT AIR COMPRESSOR

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

01	16/11/2021	For approval	WZ	KP	LdM	
01	23/09/2021	For approval	WZ	KP	LdM	
00	24/11/2020	For approval	TvT	KP	LdM	
Rev	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: P

PV-71101 and PY-71101 are missed.

TAG NUMBER	SERVICE DESCRIPTION	INSTRUMENT TYPE	LOCATION	P&ID NUMBER	SYSTEM TYPE	I/O TYPE	SIGNAL TYPE	IS/NIS	CALIBRATED RANGE	ENGINEERING UNIT	STATE 0	STATE 1	SET POINT L	SET POINT LL	SET POINT H	SET POINT HH	PROCESS CONNECTION	INSTRUMENT CONNECTION	BBB	TYPE B&B	TW	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	BU-20-VD-303-PR-DWG-0066	-	-	-	-	100...100	mmar	-	-	-	-	-	-	1/4" NPT-F	-	YES	5-WAY	-	YES	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
PG-71102	Compressor Inlet Air Pressure Gauge	PRESSURE GAUGE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	0...16	bar(a)	-	-	-	-	-	-	1/2" NPT-M	-	YES	2-WAY	-	YES	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
PG-71105	Compressor Upstream After-Cooler Air Pressure Gauge	PRESSURE GAUGE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	1...40	bar(a)	-	-	-	-	-	-	1/2" NPT-M	-	YES	2-WAY	-	YES	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
PG-71106	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	0...6	bar(a)	-	-	-	-	-	-	1/2" NPT-M	-	YES	2-WAY	-	YES	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TG-71104	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	0...60	°C	-	-	-	-	-	-	1/2" NPT-M	-	-	-	YES	NO	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TW-71104	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300H RF	-	-	-	-	-	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TG-71103	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	0...60	°C	-	-	-	-	-	-	1/2" NPT-M	-	-	-	YES	NO	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TW-71103	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300H RF	-	-	-	-	NO	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
LG-71101	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	will be stated later	mm	-	-	-	-	-	1/2" NPT	-	-	-	-	NO	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
PT-71103	Compressor Inlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...13.5	bar(a)	-	-	-	-	6.9	-	1/2" NPT-M	-	YES	3-WAY	-	YES	HART	BU-20-VD-303-IN-DIG-0093	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
PT-71104	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	1...5	bar(g)	-	-	-	-	1.5	-	1/2" NPT-M	-	YES	3-WAY	-	YES	HART	BU-20-VD-303-IN-DIG-0094	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
PT-71107	Compressor Outlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	1...36	bar(a)	-	-	19 (load/stop)	18.5	21 (unload/stop)	21.5	1/2" NPT-M	-	YES	3-WAY	-	YES	HART	BU-20-VD-303-IN-DIG-0095	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TT-71101	Compressor Inlet Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...80	°C	-	-	-	-	56	-	1 1/2" 300H RF	1/2" NPT-F	-	-	YES	NO	HART	BU-20-VD-303-IN-DIG-0096	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TW-71101	Compressor Inlet Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300H RF	1/2" NPT-F	-	-	-	NO	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TT-71102	Compressor Upstream After-Cooler Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...200	°C	-	-	-	-	-	195	-	-	-	-	YES	NO	HART	BU-20-VD-303-IN-DIG-0096	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
TW-71102	Compressor Upstream After-Cooler Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1 1/2" 300H RF	1/2" NPT-F	-	-	-	NO	-	-	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
FT-71101	Compressor Cooling Water Outlet Water Flow Transmitter	FLOW TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	0...5	m ³ /hr	-	-	2.3	-	-	-	to be advised	-	-	-	-	NO	HART	BU-20-VD-303-IN-DIG-0096	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
VT-71101	Compressor Vibration Level Transmitter	VIBRATION TRANSMITTER	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	AI 4-20 mA (redundant)	ANALOG	IS	-	to be advised	mm/s	-	-	-	-	8	to be advised	-	-	-	-	NO	HART	BU-20-VD-303-IN-DIG-0097	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL	
XY-71101	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	DO 24VDC	DIGITAL	NIS	-	-	-	-	-	-	-	-	1/4" NPT-F	-	-	-	-	-	-	-	BU-20-VD-303-IN-DIG-0098	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL
XY-71102	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	BU-20-VD-303-PR-DWG-0066	PLC	DO 24VDC	DIGITAL	NIS	-	-	-	-	-	-	-	-	1/4" NPT-F	-	-	-	-	-	-	-	BU-20-VD-303-IN-DIG-0099	BU-20-VD-303-IN-DSH-0090	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL
XV-71102	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1/4" NPT-F	-	-	-	-	-	-	-	BU-20-VD-303-IN-DIG-0100	BU-20-VD-303-IN-DSH-0091	BU-20-VD-303-EL-DWG-0101	TBA	LOCAL
PSV-71101	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1" 300H RF	-	-	-	-	-	-	-	BU-20-VD-303-IN-DSH-0091	-	TBA	LOCAL	
PSV-71102	Compressor Cooling Water Outlet Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	BU-20-VD-303-PR-DWG-0066	-	-	-	-	-	-	-	-	-	-	-	-	1" 300H RF	-	-	-	-	-	-	-	BU-20-VD-303-IN-DSH-0091	-	TBA	LOCAL	
HS-715-SD-1	Emergency Shutdown Command	SIGNAL TO/FROM ESD	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC (redundant)	DIGITAL	-	-	-	ESD	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAL-715-2	Common Alarm	SIGNAL TO/FROM ESD	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC (redundant)	DIGITAL	-	-	-	Alarm	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KCS-715	Time Synchronisation	SIGNAL TO/FROM FCS	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC	DIGITAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Motor Running	SIGNAL TO/FROM DB	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC	DIGITAL	-	-	-	Not Running	Running	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Motor Fault	SIGNAL TO/FROM DB	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC	DIGITAL	-	-	-	Fault	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Motor Start/Stop	SIGNAL TO/FROM DB	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC	DIGITAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Heater ON/OFF	SIGNAL TO/FROM DB	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DO 24VDC	DIGITAL	-	-	-	On	Off	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Heater Fault	SIGNAL TO/FROM DB	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC	DIGITAL	-	-	-	Fault	Healthy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Heater Running	SIGNAL TO/FROM DB	UCP	BU-20-VD-303-PR-DWG-0066	PLC	DI 24VDC	DIGITAL	-	-	-	Not Running	Running	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

to be advised

to be specified

KS-715 Interlock Switch Stop Compressor shall be specified same as previous revision.

Repeated Comment Tag number to be specified