







OWNER 	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	
	Instrument index for reciprocating compressor								
MC :  شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-72	BU	20	VD	303	IN	INX	0032	Rev.:	Page
								00	1 of 3





As I/O list did not supplied by vendor so all required items in I/o list to be added to index.
-Signal Type (4-20mAmp, 24vdc , ...)
-From/ To
And also all signals to be indicated in this doc (limit switch of valves , remote start stop command (refer to page 4&6 OF pid)

This document is checked only for compressor 7080. New document should be generated for compressor 1002.

Instrument index for reciprocating compressor

 شرکت پتروشیمی اوشهر	 Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT
Document Review		
Issue Purpose:	FA	
Result Code: AP,AN,CM,RE,NC	CM	
Next Status : IFC,IFA,IFI,AFC,AB	IFA	
Responsible Department	MECHANICAL	
Commented Date	May.05.2021	
Approval or review hereunder shall not be construed to relieve Vendor / Subcontractor of his responsibilities and liability under the contract.		

00	24/11/2020	For Approval	WZ	RB	KP	
Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
					Class: 1	Phase: 1p

OWNER  شرکت پتروشیمی بوتهر	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT							EPC CONTRACTOR: 	
	Instrument index for reciprocating compressor								
MC :   شرکت سفت و سوی توسعه ایرانیان	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-72	BU	20	VD	303	IN	INX	0032	Rev.:	Page
								00	2 of 3

TABULATION OF REVISED PAGES

Page	D00	D01	D02	D03	D04
1.	X				
2.	X				
3.	X				
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					
34.					

Page	D00	D01	D02	D03	D04
35.					
36.					
37.					
38.					
39.					
40.					
41.					
42.					
43.					
44.					
45.					
46.					
47.					
48.					
49.					
50.					
51.					
52.					
53.					
54.					
55.					
56.					
57.					
58.					
59.					
60.					
61.					
62.					
63.					
64.					
65.					
66.					
67.					

There is deviation between this doc and PID in sequence of tag numbers, please clarify?

To be corrected.

As per project spec redundancy to be considered where required (for example closed loops)

To be filled carefully, there is not any signal for local gauges.

Refer to comments on data sheet.

Isolation valve for LG to be considered.

For on/off valve DO signals will be considered for solenoid valve not ball valves.

following items to be added to index:
VT
FT

Same as comment on C-1002

TAG NUMBER	SERVICE DESCRIPTION	INSTRUMENT TYPE	LOCATION	P&ID NUMBER	I/O TYPE	SIGNAL TYPE	CALIBRATED	ENGINEERING CONNECTION	INSTRUMENT CONNECTION	B&B	TYPE B&B	TW	ISOLATION VALVE	PROTOCOL	WIRING DRAWING NUMBER	DATASHEET NUMBER	HOOK-UP DRAWING NUMBER	MANUFACTURER & MODEL NO.	PANEL OR LOCAL MOUNTED
PDG-001A	Compressor Inlet Strainer Differential Pressure Transmitter	DIFFERENTIAL PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	-1-1	1/4" NPT-F	-	YES	5-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-001A	Compressor Inlet Nitrogen Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-16	1/2" NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-002A	Compressor Upstream After-Cooler Nitrogen Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-40	1/2" NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-003A	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-6	1/2" NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-001A	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	1/2" NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001A	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-002A	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	1/2" NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-002A	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
LG-001A	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	17811-03	AI	ANALOG	will be stated later	1/2" NPT	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-001A	Compressor Inlet Nitrogen Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-13.5	1/2" NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-002A	Compressor Outlet Nitrogen Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-36	1/2" NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-003A	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-5	1/2" NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-001A	Compressor Inlet Nitrogen Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-80	1/2" NPT-M	-	YES	2-WAY	-	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001A	Compressor Inlet Nitrogen Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	1/2" NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-002A	Compressor Upstream After-Cooler Nitrogen Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-200	1/2" NPT-M	-	YES	2-WAY	-	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TW-002A	Compressor Upstream After-Cooler Nitrogen Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	1/2" NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-001A	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-002A	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XV-002A	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	17811-03	DO	DIGITAL	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PCV-001A	Compressor Bypass (Recycle) Pressure Control Valve	PRESSURE CONTROL VALVE	FIELD	17811-03	AO	ANALOG	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PSV-001A	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	1" 300H RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL
PSV-002A	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	1" 300H RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL
PDG-001B	Compressor Inlet Strainer Differential Pressure Transmitter	DIFFERENTIAL PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	-1-1	1/4" NPT-F	-	YES	5-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-001B	Compressor Inlet Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-16	1/2" NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-002B	Compressor Upstream After-Cooler Air Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-40	1/2" NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
PG-003B	Compressor Cooling Water Inlet Water Pressure Gauge	PRESSURE GAUGE	FIELD	17811-03	AI	ANALOG	0-6	1/2" NPT-M	-	YES	2-WAY	-	YES	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-001B	Compressor Cooling Water Inlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	1/2" NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001B	Compressor Cooling Water Inlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TG-002B	Compressor Cooling Water Outlet Water Temperature Gauge	TEMPERATURE GAUGE	FIELD	17811-03	AI	ANALOG	0-60	1/2" NPT-M	-	-	-	YES	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TW-002B	Compressor Cooling Water Outlet Water Temperature Gauge Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
LG-001B	Compressor Oil Sump Oil Level Gauge	LEVEL GAUGE	FIELD	17811-03	AI	ANALOG	will be stated later	1/2" NPT	-	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-001B	Compressor Inlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-13.5	1/2" NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-002B	Compressor Outlet Air Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-36	1/2" NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
PIT-003B	Compressor Oil System Oil Pressure Transmitter	PRESSURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	-1-5	1/2" NPT-M	-	YES	2-WAY	-	YES	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-001B	Compressor Inlet Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-80	1/2" NPT-M	-	YES	2-WAY	-	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TW-001B	Compressor Inlet Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	1/2" NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
TIT-002B	Compressor Upstream After-Cooler Air Temperature Transmitter	TEMPERATURE TRANSMITTER	FIELD	17811-03	AI	ANALOG	0-200	1/2" NPT-M	-	YES	2-WAY	-	NO	HART	17811-05	17811-12	17811-38	TBA	LOCAL
TW-002B	Compressor Upstream After-Cooler Air Temperature Transmitter Thermowell	THERMOWELL	FIELD	17811-03	-	-	-	1 1/2" 300H RF	1/2" NPT-F	-	-	-	NO	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-001B	Compressor Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XY-002B	Compressor Cooling Water Inlet Solenoid Valve	SOLENOID VALVE	FIELD	17811-03	DO	DIGITAL	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
XV-002B	Compressor Cooling Water Inlet Ball Valve	BALL VALVE	FIELD	17811-03	DO	DIGITAL	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PCV-001B	Compressor Bypass (Recycle) Pressure Control Valve	PRESSURE CONTROL VALVE	FIELD	17811-03	AO	ANALOG	-	1/4" NPT-F	-	-	-	-	-	-	17811-05	17811-12	17811-38	TBA	LOCAL
PSV-001B	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	1" 300H RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL
PSV-002B	Compressor Upstream After-Cooler Pressure Safety Valve	PRESSURE SAFETY VALVE	FIELD	17811-03	-	-	-	1" 300H RF	-	-	-	-	-	-	17811-12	17811-12	17811-38	TBA	LOCAL