

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)							 HAVAYAR INDUSTRIAL GROUP	
	I/O LIST								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده HY	تسهیلات 120	رشته IN	نوع مدرک LI	سریال 0005	نسخه V00	شماره صفحه: ۱ از ۸

طرح نگهداشت و افزایش تولید ۲۷ مخزن

I/O LIST

نگهداشت و افزایش تولید میدان نفتی بینک

V00	Jul.2023	IFR	Havayar Co.	M. Fakharian	A.M. Mohseni	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 2

CLIENT Doc. Number:

status

IFA: Issued For Approval
 IFR: Issued For Review
 IFI: Issued For Information
 AFC: Approved For Construction

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک							 HAVAYAR INDUSTRIAL GROUP	
	I/O LIST								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده HY	تسهیلات 120	رشته IN	نوع مدرک LI	سریال 0005	نسخه V00	شماره صفحه: ۸ از ۲

REVISION RECORD SHEET

Page	V00	V01	V02	V03	V04
1	X				
2	X				
3	X				
4	X				
5	X				
6	X				
7	X				
8	X				
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					
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					

Page	V00	V01	V02	V03	V04
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					
109					
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض								
	خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)								
	I/O LIST								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳ از ۸
9184 - 073 - 053	BK	GCS	HY	120	IN	LI	0005	V00	
ABBREVIATIONS Location: (Geographical location of the instrument) FIELD : Local LCP : Local Panel SS : Electrical Substation ITR : Instrument Technical Room CCR : Central Control Room MCC : Motor Control Center DCS : Distributed Control System ESD : Emergency Shutdown System UCP : Unit Control Panel Valve Action : FC : Fail Close FO : Fail Open FL : Fail Lock FLC : Fail Lock Close FLO : Fail Lock Open W/D : D : Dry Contact W : Wet Contact I/O type AI : Analog Input AO : Analog Output DI : Digital Input DO : Digital Output DOR : Digital Output redundant AIR : Analog Input redundant AOR : Analog Output redundant DIR : Digital Input redundant SAI : Software Analog Input SAO : Software Analog Output SDI : Software Digital Input SDO : Software Digital Output F : fail safe Power Supply : AC110V DC24V System: ESD : Emergency Shut Down System UCP : Unit Control Panel DCS : Distributed Control System (PCS) FGS : Fire and Gas System MCC : Motor Control Center Signal Type : 4-20mA DC24V NC : Contact (Normal Close) NO : Contact (Normal Open) SOV : Digital Output Solenoid Valve SL : Serial Link									

				نگهداشت و افزایش تولید میدان نفتی بینک										 												
				سطح الارض و ابنیه تحت الارض																						
				خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)																						
				I/O LIST																						
شماره پیمان:				پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	4 OF 8						شماره صفحه:								
9184 – 073 - 053				BK	GCS	HY	120	IN	LI	0005	V00															
Item No.	Tag Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection		I/O Type	System	Location, Signal (To/ From)	Power Supply	WID	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents				Hazardous Area	Manufacturer	Model Number	Remark
							Size	Rating											Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet				
1	SV-2201	SOLENOID VALVE	INST. AIR SUPPLY	PACKAGE COMPRESSOR C-2101,2A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 3	-	-	-	DOR	UCP-A	FIELD	24VDC	W	24VDC	NIS											
2	SV-2202	SOLENOID VALVE	INST. AIR SUPPLY	PACKAGE COMPRESSOR C-2101,2A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 3	-	-	-	DOR	UCP-A	FIELD	24VDC	W	24VDC	NIS											
3	SV-2203	SOLENOID VALVE	INST. AIR SUPPLY	PACKAGE COMPRESSOR C-2101,2A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 3	-	-	-	DOR	UCP-A	FIELD	24VDC	W	24VDC	NIS											
4						-	-	-																		
5	PT-2123A/B/C	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	8"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-16	BARG					ZONE2, IIB, T3			
6	PI-2123A/B/C	PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
7	PAL-2123A/B/C	PRESSURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
8						-	-	-																		
9	FT-2121A/B/C	FLOW TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	8"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-14000	NM3/H					ZONE2, IIB, T3			
10	FI-2121 A/B/C	FLOW INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
11						-	-	-																		
12	TT-2122 A/B/C	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	8"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-100	°C					ZONE2, IIB, T3			
13	TI-2122 A/B/C	TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
14						-	-	-																		
15	PDT-2122 A/B/C	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	1"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-1	BARG					ZONE2, IIB, T3			
16	PDI-2122 A/B/C	DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
17	PDAH-2122 A/B/C	DIFF. PRESSURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
18						-	-	-																		
19	PT-2192 A/B	PRESSURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	6"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-40	BARG					ZONE2, IIB, T3			
20	PI-2192 A/B	PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
21	PAH-2192 A/B	PRESSURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
22	PAL-2192 A/B	PRESSURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
23						-	-	-																		
24	TT-2192 A/B/C	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	6"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-200	°C					ZONE2, IIB, T3			
25	TI-2192 A/B/C	TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
26						-	-	-																		
27	TT-2191 A/B/C	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-200	°C					ZONE2, IIB, T3			
28	TI-2191A/B/C	TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
29	TAH-2191A/B/C	TEMPERATURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
30						-	-	-																		
31	TS-2191A/B/C	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	DIR-F	USD	FIELD	24VDC		NC	NIS		0-200/160	°C								
32	TAHH-2191A/B/C	TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-		UCP-A	ESD	24VDC														
33						-	-	-																		
34	TT-2194 A/B/C	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-200	°C					ZONE2, IIB, T3			
35	TI-2194 A/B/C	TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
36	TAH-2194 A/B/C	TEMPERATURE ALARM HIGH		PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
37						-	-	-																		
38	TS-2194 A/B/C	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	DIR-F	UCP-A	CCR															
39	TAHH-2194 A/B/C	TEMPERATURE ALARAM HIGH HIGH		PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
40						-	-	-																		
41	PT-2124 A/B/C	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	6"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-80	BARG					ZONE2, IIB, T3			
42	PI-2124 A/B/C	PRESSURE INDICATING		PACKAGE COMPRESSOR C-2102A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2				-	UCP-A	CCR														</	

				تکهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض																						
																										خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03)
				I/O LIST																						
شماره پیمان:				پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	5 OF 8						شماره صفحه:								
9184 – 073 - 053				BK	GCS	HY	120	IN	LI	0005	V00															
Item No.	Tag Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection		I/O Type	System	Location, Signal (To/ From)	Power Supply	WID	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents				Hazardous Area	Manufacturer	Model Number	Remark
							Size	Rating											Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet				
64	PT-2200 A/B/C	PRESSURE TRANSMITTER	ON LUBRICATOR	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		HOLD						ZONE2, IIB, T3			
65	PI-2200 A/B/C	PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
66	PAL-2200 A/B/C	PRESSURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
67						-	-	-																		
68	LT-2200 A/B/C	LEVEL TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		HOLD						ZONE2, IIB, T3			
69	LI-2200 A/B/C	LEVEL INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
70	LAL-2200 A/B/C	LEVEL ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
71						-	-	-																		
72	LT-2213 A/B/C	LEVEL TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	AIR-F	UCP-A	FIELD	24VDC	-	4-20mA	IS		HOLD						ZONE2, IIB, T3			
73	LI-2213 A/B/C	LEVEL INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
74	LAL-2213 A/B/C	LEVEL ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
75	LALL-2213 A/B/C	LEVEL ALARM LOW LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
76						-	-	-																		
77	TT-2203 A/B/C	TEMPERATURE TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	AIR	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-200	°C					ZONE2, IIB, T3			
78	TI-2203 A/B/C	THERMO INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-			FIELD															
79						-	-	-																		
80	HSP-2203 A/B/C	HEATER ON COMMAND	ON CRANK CASE	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
81	HST-2203 A/B/C	HEATER OFF COMMAND		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
82	XL-2203 A/B/C	RUNNING STATUS		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
83	XA-2203 A/B/C	FAILURE STATUS		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
84						-	-	-																		
85	HST-2200 A/B/C	LUBRICATOR HEATER ON COMMAND	ON LUBRICATOR	PACKAGE COMPRESSOR C-1401A	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
86	HSP-2200 A/B/C	LUBRICATOR HEATER OFF COMMAND		PACKAGE COMPRESSOR C-1401A	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
87	XL-2200 A/B/C	RUNNING STATUS			BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
88	XA-2200 A/B/C	FAILURE STATUS			BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
89						-	-	-																		
90	TT-2204A/B/C	TEMPERATURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	4"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-100	°C					ZONE2, IIB, T3			
91	TI-2204A/B/C	TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
92	TAH-2204A/B/C	TEMPERATURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
93	TAL-2204A/B/C	TEMPERATURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
94						-	-	-																		
95	PT-2204A/B/C	PRESSURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	2"			AIR	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-16	BARG					ZONE2, IIB, T3			
96	PI-2204A/B/C	PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
97	PAL-2204A/B/C	PRESSURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
98	PAH-2204A/B/C	PRESSURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
99						-	-	-																		
100	PS-2204A/B/C	PRESSURE SWITCH	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DIR-F	USD	Field						0-16/6	BARG					ZONE2, IIB, T3			
101	PALL-2204A/B/C	PRESSURE ALARM LOW LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	-	UCP-A	CCR															
102						-	-	-																		
103	PDT-2204 A/B/C	DIFF. PRESSURE TRANSMITTER	LUBE OIL FILTER	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	1"			AIR	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-6	BARG					ZONE2, IIB, T3			
104	PDI-2204 A/B/C	DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
105	PDAH-2204 A/B/C	DIFF. PRESSURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 2	-	-	-	-	UCP-A	CCR															
106						-	-	-																		
107	HST-2202 A/B/C	START COMMAND	AUX. OIL PUMP (P-2101-AP A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 4	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
</																										

				نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03) I/O LIST																						
				شماره پیمان:		پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	6 OF 8				شماره صفحه:								
9184 – 073 - 053				BK	GCS	HY	120	IN	LI	0005	V00															
Item No.	Tag Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection		I/O Type	System	Location, Signal (To/ From)	Power Supply	WID	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents				Hazardous Area	Manufacturer	Model Number	Remark
							Size	Rating											Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet				
127	PI-2211A/B/C	PRESSURE INDICATING	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 5	-	-	-	-	UCP-A	CCR															
128	PAL-2211A/B/C	PRESSURE ALARM LOW	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET 5	-	-	-	-	UCP-A	CCR															
129						-	-	-																		
130	HST-2220 A/B/C	START COMMAND	WATER CONSULE (AE-2101-WC A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
131	HSP-2220 A/B/C	STOP COMMAND	WATER CONSULE (AE-2101-WC A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T3			
132	XL-2220 A/B/C	RUNNING STATUS	WATER CONSULE (AE-2101-WC A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
133	XA-2220 A/B/C	FAILURE STATUS	WATER CONSULE (AE-2101-WC A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
134						-	-	-																		
135	HST-2221 A/B/C	START COMMAND	AUX WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
136	HSP-2221 A/B/C	STOP COMMAND	AUX WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T3			
137	XL-2221A/B/C	RUNNING STATUS	AUX WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
138	XA-2221 A/B/C	FAILURE STATUS	AUX WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
139						-	-	-																		
140	HST-2222 A/B/C	START COMMAND	MAIN WATER PUMP (P-2101-WP A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
141	HSP-2222 A/B/C	STOP COMMAND	MAIN WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T3			
142	XL-2222A/B/C	RUNNING STATUS	MAIN WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
143	XA-2222 A/B/C	FAILURE STATUS	MAIN WATER PUMP (P-2101-AX A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
144						-	-	-																		
145	HST-2223 A/B/C	START COMMAND	ELECTRIC HEATER (H-2101-WH A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T3			
146	HSP-2223 A/B/C	STOP COMMAND	ELECTRIC HEATER (H-2101-WH A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DOR	UCP-A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T3			
147	XL-2223A/B/C	RUNNING STATUS	ELECTRIC HEATER (H-2101-WH A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
148	XA-2223 A/B/C	FAILURE STATUS	ELECTRIC HEATER (H-2101-WH A/B/C)	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	DI	MCC	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
149																										
150	PT-2220	PRESSURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	2"			AI	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-16	BARG					ZONE2, IIB, T3			
151	PI-2220	PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	-	UCP-A	CCR															
152	PAL-2220	PRESSURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	-	UCP-A	CCR															
153						-	-	-																		
154	PS-2220A/B/C	PRESSURE SWITCH	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	2"			DIR-F	USD	Field						0-16	BARG								
155	PALL-2220A/B/C	PRESSURE ALARM LOW LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	-	UCP-A	CCR															
156						-	-	-																		
157	TT-2213A/B/C	TEMPERATURE TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	AIR	UCP-A	FIELD	24VDC	-	4-20mA	IS		0-100	°C					ZONE2, IIB, T3			
158	TI-2213/B/C	TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	-	UCP-A	CCR															
159	TAH-2213A/B/C	TEMPERATURE ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	-	UCP-A	CCR															
160	TAL-2213A/B/C	TEMPERATURE ALARM LOW		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET6	-	-	-	-	UCP-A	CCR															
161						-	-	-																		
162	HS-2230-L	SELECTOR SWITCH	LOCAL MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
163	HS-2230-R	SELECTOR SWITCH	REMOTE MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
164	HS-2230-M	SELECTOR SWITCH	AUX. LUBE OIL PUMP MANU. SELECTOR																							

				نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد BK-HD-GCS-CO-0008_03) I/O LIST													 									
				شماره پیمان:		پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	7 OF 8					شماره صفحه:							
				9184 – 073 - 053				BK	GCS	HY	120	IN	LI	0005	V00											
Item No.	Tag Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection		I/O Type	System	Location, Signal (To/ From)	Power Supply	WID	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents				Hazardous Area	Manufacturer	Model Number	Remark
							Size	Rating											Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet				
190	HS-2245-P	PUSH BUTTON	JX WATER PUMP MOTOR STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
191	HS-2246-T	PUSH BUTTON	WATER HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
192	HS-2246-P	PUSH BUTTON	WATER HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
193	HS-2247-T	PUSH BUTTON	ATER COOLER MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
194	HS-2247-P	PUSH BUTTON	ATER COOLER MOTOR STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
195	HS-2248-T	PUSH BUTTON	BEARING MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
196	HS-2248-P	PUSH BUTTON	BEARING MOTOR STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
197	HS-2250	PUSH BUTTON	RESET PUSH BUTTON	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
198	HS-2238-U	SELECTOR SWITCH	OIL COOLER AUTO SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DI	LCP	UCP-A	24VDC	D	NO	NIS								ZONE2, IIB, T3			
199	XL-2230	SIGNAL LAMP	OIL HEATER ACTIVE LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
200	XL-2231	SIGNAL LAMP	AUX LUBE OILPUMP MOTOR START LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
201	XL-2184	SIGNAL LAMP	COMMON ALARM LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
202	XL-2185	SIGNAL LAMP	COMMON SHUTDOWN LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
203	XL-2232	SIGNAL LAMP	LUBRICATOR OIL HEATER ON LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
204	XL-2233	SIGNAL LAMP	LUBRICATOR OIL MOTOR START LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
205	XL-2234	SIGNAL LAMP	MAIN MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
206	XL-2235	SIGNAL LAMP	OIL COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
207	XL-2236	SIGNAL LAMP	OIL COOLER MOTOR B RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
208	XL-2237	SIGNAL LAMP	MAIN WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
209	XL-2238	SIGNAL LAMP	AUX WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
210	XL-2239	SIGNAL LAMP	WATER HEATER ACTIVE LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
211	XL-2240	SIGNAL LAMP	WATER COOLER RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
212	XL-2241	SIGNAL LAMP	BEARRING MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
213	XL-2242	SIGNAL LAMP	READY TO START LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
214	XL-2243	SIGNAL LAMP	COMMON ALARM LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
215	XL-2244	SIGNAL LAMP	COMMON SHUT DOWN LAMP	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET9	-	-	-	DO	UCP-A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T3			
216						-	-	-																		
217	VT-2202	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-	AIR-F	UCP-A	FIELD	24VDC	-	4-20mA	IS		HOLD						ZONE2, IIB, T3			
218	VE-2202	VIBRATION ELEMENT		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-																		
219	VI-2202	VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-	-	UCP-A	CCR															
220	VAH-2202	VIBRATION ALARM HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-																		
221	VAHH-2202	VIBRATION ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-																		
222						-	-	-																		
223	VT-2200	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-	AIR-F	UCP-A	FIELD	24VDC	-	4-20mA	IS		HOLD						ZONE2, IIB, T3			
224	VE-2200	VIBRATION ELEMENT		PACKAGE COMPRESSOR C-2101A/B/C	BK-GCS-HY-120-PR-PI-0001-SHEET8	-	-	-			FIELD															

