طرح نگهداشت و افزایش تولید ۲۷ مخزن

I/O LIST

نگهداشت و افزایش تولید میدان نفتی بینک

V02	Jan.2025	AFC	HAVAYAR CO	M.Fakharian	S.Faramarzpour	
V01	Jan.2024	IFR	HAVAYAR CO	M.Fakharian	M.SADEGHIAN	
V00	MAY.2023	IFR	HAVAYAR CO	M.Fakharian	M.SADEGHIAN	
Rev.	**Date**	**Purpose of Issue / Status**	**Prepared by:**	**Checked by:**	**Approved by:**	**CLIENT Approva**
		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 (قرارداد BK-HD-GCS-CO-0008_03) I/O LIST								HIRGAN ENERGY HAVAYAR INDUSTRIAL GROUP
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲ از ۱۵
۰۵۳ - ۰۷۳ - ۹۱۸٤	BK	GCS	HY	120	IN	LI	0005	V02	

REVISION RECORD SHEET

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2	X	X	X		
3	X	X	X		
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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

I/O type

AI	:	Analog Input
AO	:	Analog Output
DI	:	Digital Input
DO	:	Digital Output
DOR	:	Digital Output redundant
AIR	:	Analog Input redundant
AIRF	:	Analog Input redundant FAII SAFE
AOR	:	Analog Output redundant
DIR	:	Digital Input redundant
DIRF	:	Digital Input redundant FAIL SAFE
SAI	:	Software Analog Input
SAO	:	Software Analog Output
SDI	:	Software Digital Input
SDO	:	Software Digital Output
F		fail safe

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

Refrence Doc:
BK-GCS-HY-120-PR-PI-0001 P&I DIAGRAM

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

Power Supply :
AC110V
DC24V

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	4 OF 15

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal From	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Engineering Documents: Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
1	POSV-2201A	POSV-2201A	A	SOLENOID VALVE	INST. AIR SUPPLY	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A				DORF	UCP-2101A	C-JBU-S-2101A	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD POSV-2201A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
2	POSV-2202A	POSV-2202A	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A				DORF	UCP-2101A	C-JBU-S-2101A	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD POSV-2202A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
3	POSV-2203A	POSV-2203A	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A				DORF	UCP-2101A	C-JBU-S-2101A	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD POSV-2203A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
4	POSV-2204A	POSV-2204A	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A				DORF	UCP-2101A	C-JBU-S-2101A	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD POSV-2204A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
5	POSV-2205A	POSV-2205A	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A				DORF	UCP-2101A	C-JBU-S-2101A	24VDC	W	24VDC	NIS	FAIL TO OPEN							ZONE2, IIB, T4			
	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD POSV-2205A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
6	FI-2121A	FT-2121A	A	FLOW TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	8"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-8710 0.1	Nm3/h Barg					ZONE2, IIB, T4			
		FI-2121A		FLOW INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
7	TI-2122A	TT-2122A	A	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	8"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2122A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
8	PDI-2122A	PDT-2122A	A	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	8"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-0.4	BARG					ZONE2, IIB, T4			
		PDI-2122A		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
9	PI-2123A	PT-2123A	A	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	8"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2123A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
10	TI-2123A	TT-2123A	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2123A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
11	PI-2124A	PT-2124A	A	PRESSURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2124A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
12	FI-2131A	FT-2131A	A	FLOW TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-8710 0.1	Nm3/h Barg					ZONE2, IIB, T4			
		FI-2131A		FLOW INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
13	TI-2132A	TT-2132A	A	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2132A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
14	PI-2132A	PT-2132A	A	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2132A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
15	PDI-2132A	PDT-2132A	A	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-0.4	BARG					ZONE2, IIB, T4			
		PDI-2132A		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
16	TI-2133A	TT-2133A	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2133A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
17	PI-2133A	PT-2133A	A	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			AI	JBU-A-2101 (Hirgan JB)	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-65	BARG					ZONE2, IIB, T4			
		PI-2133A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
18	PV-2123A	PV-2123A	A	CONTROLLER	SPILL BACK VALVE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				AOR	UCP-2101A	C-JBU-A-2101 (Hirgan JB)			4-20mA	IS											
		PVZ-2123A		Feed back		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				AI	C-JBU-A-2101 (Hirgan JB)	UCP-2101A			4-20mA	IS											
		PVZI-2123A		Feed back		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS			4-20mA	IS											
19		CZSO-2123A	A	LIMIT SWITCH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				DI	JBU-D-2103A (Hirgan JB)	UCP-2101A	24VDC	W		NIS											
20		CZSC-2123A	A	LIMIT SWITCH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				DI	JBU-D-2103A (Hirgan JB)	UCP-2101A	24VDC	W		NIS											
21		POSV-2123A	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				DORF	UCP-2101A	POSV-2123A	24VDC	W	24VDC	NIS	FAIL TO OPEN							ZONE2, IIB, T4			
		USD-I-60A	A	Trip Relay Center in UCP Internal USD POSV-2123A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A					Trip Relay UCP A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
22	TI-2203A	TT-2203A	A	TEMPERATURE TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				AIR	C-JBU-A-2101A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2203A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				Serial link	UCP-2101A	DCS															
23	TI-2213A	TT-2213A	A	TEMPERATURE TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				AIR	C-JBU-A-2101A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2213A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				Serial link	UCP-2101A	DCS															
24	PI-2204A	PT-2204A	A	PRESSURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	2"			AIR	C-JBU-A-2101A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2204A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				Serial link	UCP-2101A	DCS															
25	PI-2220A	PT-2220A	A	PRESSURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	2"			AIR	C-JBU-A-2101A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2220A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				Serial link	UCP-2101A	DCS															
26	LI-2213A	LT-2213 A	A	LEVEL TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				AIR	C-JBU-A-2101A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-1350	mmH2O					ZONE2, IIB, T4			
		LI-2213A		LEVEL INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				Serial link	UCP-2101A	DCS															
27	TI-2191A	TT-2191A	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				AI	C-JBU-A-2101A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2191A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
28	TI-2194A	TT-2194A	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				AI	C-JBU-A-2101A	CCR	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2194A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
29	TI-2231A	TT-2231A	A	TEMPERATURE TRANSMITTER	WATER HEATER	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				AI	C-JBU-A-2101A	CCR	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2231A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				Serial link	UCP-2101A	DCS															
30	PI-2201A	PT-2201A	A	PRESSURE TRANSMITTER	ON INSTRUMENT LINE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A	2"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-16	BARG					ZONE2, IIB, T4			
		PI-2201A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 2A				Serial link	UCP-2101A	DCS															
31	PI-2210A	PT-2210A	A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 4A	1"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2210A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 4A				Serial link	UCP-2101A	DCS															
32	PI-2211A	PT-2211A	A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 4A	1"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2211A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 4A				Serial link	UCP-2101A	DCS															
33	PI-2212A	PT-2212A	A	PRESSURE TRANSMITTER	N2 TO Flare	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 4A	1"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2212A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 4A				Serial link	UCP-2101A	DCS															
34	PI-2200A	PT-2200A	A	PRESSURE TRANSMITTER	ON LUBRICATOR	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2200A		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				Serial link	UCP-2101A	DCS															
35	LI-2200A	LT-2200A	A	LEVEL TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-425	mmH2O					ZONE2, IIB, T4			
		LI-2200A		LEVEL INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				Serial link	UCP-2101A	DCS															
36	FI-2206A	FT-2206A	A	FLOW TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 6A	2"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-8710 0.2	m3/h Barg					ZONE2, IIB, T4			
		FI-2206A		FLOW INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 6A				Serial link	UCP-2101A	DCS															
37	TI-2204A	TT-2204A	A	TEMPERATURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	4"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2204A		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				Serial link	UCP-2101A	DCS															
38	PDI-2204A	PDT-2204A	A	DIFF. PRESSURE TRANSMITTER	LUBE OIL FILTER	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	1"			AI	C-JBU-A-2104A	UCP-2101A	24VDC	-	4-20mA Hart	IS		0-1	BARG					ZONE2, IIB, T4			
		PDI-2204A		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				Serial link	UCP-2101A	DCS															
39	ZI-2200A	ZT-2200A	A	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AI	C-JBU-A-2102A	UCP-2101A	24VDC	-	4-20mA	IS		4	mm					ZONE2, IIB, T4			
		ZI-2200A		ROD DROP INDICATOR		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
40	ZI-2201A	ZT-2201A	A	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AI	C-JBU-A-2102A	UCP-2101A	24VDC	-	4-20mA	IS		4	mm					ZONE2, IIB, T4			
		ZI-2201A		ROD DROP INDICATOR		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
41	XI-2200A	XT-2200A	A	Key Phasor	Key Phasor	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AI	C-JBU-A-2102A	UCP-2101A	24VDC	-	4-20mA	IS		1000	Rpm					ZONE2, IIB, T4			
		XI-2200A		Key Phasor		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															

NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک *(BK-HD-GCS-CO-0008_03 قرارداد)* **I/O LIST**	HIRGAN ENERGY HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	5 OF 15

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	W/D	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
42	TI-2214A	TT-2214A	A	TEMPERATURE TRAMSMITTER	Main Motor Bearing	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2214A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
43	TI-2215A	TT-2215A	A	TEMPERATURE TRAMSMITTER	Main Motor Bearing	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2215A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
44	TI-2216A	TT-2216A	A	TEMPERATURE TRANSMITTER	Com DE Bearing Temp	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2216A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
45	TI-2217A	TT-2217A	A	TEMPERATURE TRANSMITTER	Comp Packing RIGHT Temp	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2217A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
46	TI-2218A	TT-2218A	A	TEMPERATURE TRANSMITTER	Com NDE Bearing Temp	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2218A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
47	TI-2219A	TT-2219A	A	TEMPERATURE TRANSMITTER	Comp Packing LEFT Temp	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2219A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
48	TI-2220A	TT-2220A	A	TEMPERATURE TRANSMITTER	Com Mid Bearing Temp	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TI-2220A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
49	TI-2221A	TT-2221A	A	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	2"			_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		TT-2221A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				Serial link	UCP-2101A	DCS															
50	VI-2200A	VT-2200A	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		VI-2200A		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
51	VI-2201A	VT-2201A	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		VI-2201A		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
52	VI-2202A	VT-2202A	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				_	C-JBU-A-2103A	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC															
		VI-2202A		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
53	TI-2222A	TE-2222A	A	RTD THERMO ELEMENT	MAIN MOTOR R-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC			4-20mA												
		TI-2222A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
54	TI-2225A	TE-2225A	A	RTD THERMO ELEMENT	MAIN MOTOR S-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC			4-20mA												
		TI-2225A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
55	TI-2228A	TE-2228A	A	RTD THERMO ELEMENT	MAIN MOTOR T-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				AIRF	Trip Relay UCP A	UCP-2101A PLC			4-20mA												
		TI-2228A		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				Serial link	UCP-2101A	DCS															
56	TI-2191A	TS-2191A	A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				-	C-JBU-D-2101A	Trip Relay UCP A	24VDC		NC	NIS		150	°C								
		TAHH-2191A		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	-	-	-	DIRF	Trip Relay UCP A	UCP-2101A PLC	24VDC							03							
		TAHH-2191A		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
57	TI-2194A	TS-2194A	A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				-	C-JBU-D-2101A	Trip Relay UCP A				NIS		170	°C								
		TAHH-2194A		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				DIRF	Trip Relay UCP A	UCP-2101A PLC															
		TAHH-2194A		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
58	PI-2133A	PS-2133A	A	PRESSURE SWITCH	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	6"			-	C-JBU-D-2101A	Trip Relay UCP A				NIS		57	BARG								
		PAHH-2133A		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A				DIRF	Trip Relay UCP A	UCP-2101A PLC															
		PAHH-2133A		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 1A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
59	PI-2204A	PS-2204A	A	PRESSURE SWITCH	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				-	C-JBU-D-2101A	Trip Relay UCP A				N'IS		1.2	BARG					ZONE2, IIB, T4			
		PAHH-2204A		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DIRF	Trip Relay UCP A	UCP-2101A PLC															
		PAHH-2204A		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
60	PI-2220A	PS-2220A	A	PRESSURE SWITCH	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	2"			-	C-JBU-D-2101A	Trip Relay UCP A				NIS		2	BARG								
		PAHH-2220A		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DIRF	Trip Relay UCP A	UCP-2101A PLC															
		PAHH-2220A		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
61	XSS-2200A	XSS-2200A	A	START COMMAND HEATER LUBRICATOR	HEATER ON LUBRICATOR	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
62	XSP-2200A	XSP-2200A	A	STOP COMMAND HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
63	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
64	XR-2200A	XR-2200A	A	RUNNING STATUS HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
65	XF-2200A	XF-2200A	A	FAILURE STATUS HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
66	XSS-2201A	XSS-2201A	A	START COMMAND LUBRICATOR. OIL PUMP	LUBRICATOR. OIL PUMP (2101-LP A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
67	XSP-2201A	XSP-2201A	A	STOP COMMAND LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
68	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
69	XR-2201A	XR-2201A	A	RUNNING STATUS LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
70	XF-2201A	XF-2201A	A	FAILURE STATUS LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
71	XSS-2202A	XSS-2202A	A	START COMMAND AUX. OIL PUMP	AUX. OIL PUMP (P-2101-AP A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
72	XSP-2202A	XSP-2202A	A	STOP COMMAND AUX. OIL PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
73	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
74	XR-2202A	XR-2202A	A	RUNNING STATUSAUX. OIL PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
72	XF-2202A	XF-2202A	A	FAILURE STATUS AUX. OIL PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
75	XSP-2203A	XSP-2203A	A	START COMMAND HEATER CRANK CASE	HEATER CRANK CASE(H-2101-OH A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
76	XSS-2203A	XSS-2203A	A	STOP COMMAND HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
77	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
78	XR-2203A	XR-2203A	A	RUNNING STATUS HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
79	XF-2203A	XF-2203A	A	FAILURE STATUS HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			

NISOC

نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض و ابنیه تحت الارض

خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک

(BK-HD-GCS-CO-0008_03 قرارداد)

I/O LIST

HIRGAN ENERGY

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	6 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	W/D	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
80	XSS-2205A	XSS-2205A	A	START COMMAND LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
81	XSP-2205A	XSP-2205A	A	STOP COMMAND LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
82	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	LUB OIL COOLER (AE-2101-OC A1)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
83	XR-2205A	XR-2205A	A	RUNNING STATUS LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
84	XF-2205A	XF-2205A	A	FAILURE STATUS LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
85	XSS-2206A	XSS-2206A	A	START COMMAND LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
86	XSP-2206A	XSP-2206A	A	STOP COMMAND LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
87	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	LUB OIL COOLER (AE-2101-OC A2)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
88	XR-2206A	XR-2206A	A	RUNNING STATUS LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
89	XF-2206A	XF-2206A	A	FAILURE STATUS LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
90	XSS-2220A	XSS-2220A	A	START COMMAND WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
91	XSP-2220A	XSP-2220A	A	STOP COMMAND WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
92	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	WATER CONSULE COOLER (AE-2101-WC A1)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
93	XR-2220A	XR-2220A	A	RUNNING STATUS WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
94	XF-2220A	XF-2220A	A	FAILURE STATUS WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
95	XSS-2220A	XSS-2220A	A	START COMMAND WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
96	XSP-2220A	XSP-2220A	A	STOP COMMAND WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
97	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	WATER CONSULE COOLER (AE-2101-WC A2)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
98	XR-2220A	XR-2220A	A	RUNNING STATUS WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
99	XF-2220A	XF-2220A	A	FAILURE STATUS WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
100	XSS-2221A	XSS-2221A	A	START COMMAND AUX WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
101	XSP-2221A	XSP-2221A	A	STOP COMMAND AUX WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
102	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	AUX WATER PUMP (P-2101-AX A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
103	XR-2221A	XR-2221A	A	RUNNING STATUS AUX WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
104	XF-2221A	XF-2221A	A	FAILURE STATUS AUX WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
105	XSS-2222A	XSS-2222A	A	START COMMAND MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
106	XSP-2222A	XSP-2222A	A	STOP COMMAND MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
107	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	MAIN WATER PUMP (P-2101-WP A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
108	XR-2222A	XR-2222A	A	RUNNING STATUS MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
109	XF-2222A	XF-2222A	A	FAILURE STATUS MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
110	XSS-2223A	XSS-2223A	A	START COMMAND HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
111	XSP-2223A	XSP-2223A	A	STOP COMMAND HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
112	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	WATER CONSULE COOLER HEATER (H-2101-WHA)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
113	XR-2223A	XR-2223A	A	RUNNING STATUS HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
114	XF-2223A	XF-2223A	A	FAILURE STATUS HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
115	XSS-2224A	XSS-2224A	A	START COMMAND		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
116	XSP-2224A	XSP-2224A	A	STOP COMMAND		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
117	USD-I-60A	USD-I-60A	A	Trip Relay Center in UCP Internal USD	MAKE UP GAS COMPRESSOR MAIN MOTOR (M-2101-A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
118	XR-2224A	XR-2224A	A	RUNNING STATUS		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
119	XF-2224A	XF-2224A	A	FAULT STATUS		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
120	XSS-2225A	XSS-2225A	A	START COMMAND		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DOR	UCP-2101A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
121	XSP-2225A	XSP-2225A	A	STOP COMMAND	MOTOR BEARING DEVICE MOTOR (M-2101-BM-A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DOR	UCP-2101A	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
122	XR-2225A	XR-2225A	A	RUNNING STATUS		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
123	XF-2225A	XF-2225A	A	FAULT STATUS		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DI	MCC	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
											-																	
124		HST-2203A	A	PUSH BUTTON	OIL HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
125		HSP-2203A	A	PUSH BUTTON	OIL HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
126		HSL-2203A	A	SELECTOR SWITCH	OIL HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
127		HSR-2203A	A	SELECTOR SWITCH	OIL HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
128		HST-2202A	A	PUSH BUTTON	AUX. LUBE OIL PUMP START PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
129		HSP-2202A	A	PUSH BUTTON	AUX. LUBE OIL PUMP STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
130		HSL-2202A	A	SELECTOR SWITCH	AUX. LUBE OIL PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
131		HSR-2202A	A	SELECTOR SWITCH	AUX. LUBE OIL PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
132		HST-2200A	A	PUSH BUTTON	LUBRICATOR HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
133		HSP-2200A	A	PUSH BUTTON	LUBRICATOR HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
134		HSL-2200A	A	SELECTOR SWITCH	LUBRICATOR HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
135		HSR-2200A	A	SELECTOR SWITCH	LUBRICATOR HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
136		HST-2201A	A	PUSH BUTTON	LUBRICATOR MOTOR ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
137		HSP-2201A	A	PUSH BUTTON	LUBRICATOR HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
138		HSL-2201A	A	SELECTOR SWITCH	LUBRICATOR MOTOR LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
139		HSR-2201A	A	SELECTOR SWITCH	LUBRICATOR MOTOR REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
140		HST-2224A	A	PUSH BUTTON	MAIN MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
141		HSP-2224A	A	PUSH BUTTON	MAIN MOTOR STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
142		HSL-2224A	A	SELECTOR SWITCH	MAIN MOTOR LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
143		HSR-2224A	A	SELECTOR SWITCH	MAIN MOTOR REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
144		HST-2205A	A	PUSH BUTTON	OIL COOLER MOTOR A START PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
145		HSP-2205A	A	PUSH BUTTON	OIL COOLER MOTOR A STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
146		HSL-2205A	A	SELECTOR SWITCH	OIL COOLER MOTOR A LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
147		HSR-2205A	A	SELECTOR SWITCH	OIL COOLER MOTOR A REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
148		HST-2222A	A	PUSH BUTTON	MAIN WATER PUMP MOTOR START PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
149		HSP-2222A	A	PUSH BUTTON	MAIN WATER PUMP MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
150		HSL-2222A	A	SELECTOR SWITCH	MAIN WATER PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
151		HSR-2222A	A	SELECTOR SWITCH	MAIN WATER PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	7 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal From	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
152		HSL-2221A	A	SELECTOR SWITCH	AUX WATER PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
153		HST-2221A	A	PUSH BUTTON	AUX WATER PUMP MOTOR START PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
154		HSP-2221A	A	PUSH BUTTON	AUX WATER PUMP MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
155		HSL-2221A	A	SELECTOR SWITCH	AUX WATER PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
156		HSR-2221A	A	PUSH BUTTON	WATER HEATER ON PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
157		HSL-2221A	A	PUSH BUTTON	WATER HEATER OFF PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
158		HSL-2223A	A	SELECTOR SWITCH	WATER HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
159		HSR-2223A	A	SELECTOR SWITCH	WATER HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
160		HST-2223A	A	PUSH BUTTON	WATER COOLER MOTOR A START PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
161		HSP-2223A	A	PUSH BUTTON	WATER COOLER MOTOR A STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
162		HSL-2220A	A	SELECTOR SWITCH	WATER COOLER MOTOR A LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
163		HSR--2220A	A	SELECTOR SWITCH	WATER COOLER MOTOR A REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
164		HST--2225A	A	PUSH BUTTON	BARRING MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
165		HSP--2225A	A	PUSH BUTTON	BARRING MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
166		HST-2206A	A	PUSH BUTTON	OIL COOLER MOTOR B	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
167		HSP-2206A	A	PUSH BUTTON	OIL COOLER MOTOR B	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DI	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
168		HSL-2206A	A	SELECTOR SWITCH	OIL COOLER MOTOR B LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
169		HSR-2206A	A	SELECTOR SWITCH	OIL COOLER MOTOR B REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
170		HST-2226A	A	PUSH BUTTON	WATER COOLER MOTOR B START PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
171		HSP-2226A	A	PUSH BUTTON	WATER COOLER MOTOR B STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
172		HSL-2226A	A	SELECTOR SWITCH	WATER COOLER MOTOR B LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
173		HSR--2226A	A	SELECTOR SWITCH	WATER COOLER MOTOR B REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
174		HSL-2241A	A	SELECTOR SWITCH	COMP LOCAL MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
175		HSR-2241A	A	SELECTOR SWITCH	COMP REMOTE MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
176		HSR-2243A	A	PUSH BUTTON	RESET PUSH BUTTON	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A				DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
177		HST-2241A	A	PUSH BUTTON	LAMP TEST PUSH BUTTON SWITCH	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DI	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
178		ESDL-2245A	A	PUSH BUTTON	EMERGENCY SHUT DOWN	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A				DIRF	LCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
179		HSL-2242A1	A	SELECTOR SWITCH	LOAD 0%	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DIR	UCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
180		HSL-2242A2	A	SELECTOR SWITCH	LOAD 25%	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DIR	UCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
181		HSL-2242A3	A	SELECTOR SWITCH	LOAD 50%	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DIR	UCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
182		HSL-2242A4	A	SELECTOR SWITCH	LOAD 75%	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DIR	UCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
183		HSL-2242A5	A	SELECTOR SWITCH	LOAD 100%	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DIR	UCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
184		XL-2203A	A	SIGNAL LAMP	OIL HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
185		XL-2202A	A	SIGNAL LAMP	AUX LUBE OILPUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
186		XL-2200A	A	SIGNAL LAMP	LUBRICATOR HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DO	UCP-2101A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T4			
187		XL-2201A	A	SIGNAL LAMP	LUBRICATOR MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DO	UCP-2101A	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T4			
188		XL-2224A	A	SIGNAL LAMP	MAIN MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A	-	-	-	DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
189		XL-2205A	A	SIGNAL LAMP	OIL COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A	-	-	-	DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
190		XL-2222A	A	SIGNAL LAMP	MAIN WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
191		XL-2221A	A	SIGNAL LAMP	AUX WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
192		XL-2223A	A	SIGNAL LAMP	WATER HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
193		XL-2220A	A	SIGNAL LAMP	WATER COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
194		XL-2225A	A	SIGNAL LAMP	BARRING MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 7A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
195		XL-2206A	A	SIGNAL LAMP	OIL COOLER MOTOR B RUNNING	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 3A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
196		XL-2226A	A	SIGNAL LAMP	WATER COOLER B RUNNING	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
197		XSP-2245A	A	SIGNAL LAMP	COMP START PERMISSION	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A				DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
198		XF-2245A	A	SIGNAL LAMP	COMMON ALARM LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
199		ESDL-2245A	A	SIGNAL LAMP	COMMON SHUTDOWN LAMP	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A	-	-	-	DO	UCP-2101A	LCP-2101A	24VDC	W	NO	NIS								ZONE2, IIB, T4			
200		ESDR2-C-2101-A	A	TRIP COMMAND	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DIRF	ESD	UCP-2101A	24VDC	W	24VDC	NIS											
201		ESDR2-C-2101-A	A	TRIP COMMAND	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DIRF	ESD	UCP-2101A	24VDC	W	24VDC	NIS											
202		ESD2A-C-2101-A	A	TRIP FEEDBACK	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DORF	UCP-2101A	ESD	24VDC	D	24VDC	NIS											
203		ESD2-C-2101-A	A	TRIP FEEDBACK	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DORF	UCP-2101A	ESD	24VDC	D	24VDC	NIS											
204		PI-2121A	A	SPILL BACK	SPILL BACK	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				AIR	DCS	UCP-2101A	24VDC	-	4-20mA	NIS		BY CLIENT	BARG								
205		XS-2100A	A	Time Syc		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DI	DCS	UCP-2101A	24VDC	W	24VDC	NIS											
206		XSS-2123A	A	Permission to star		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DIR	DCS	UCP-2101A	24VDC	W	24VDC	NIS											
207		XSS-2124A	A	Ready to Start		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DO	UCP-2101A	DCS	24VDC	D	24VDC	NIS											
208		XR-2124A	A	Running Status		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1A				DO	UCP-2101A	DCS	24VDC	D	24VDC	NIS											
209		HSS-2126A	A	Request start Permission		PACKAGE COMPRESSOR C-2101 A	BK-GCS-HY-120-PR-PI-0001-SHEET 9A				DO	UCP-2101A	FCS	24VDC	D	24VDC	NIS											
210		HST-2243A	A	COMPRESSOR START P.B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 9A				DI	UCP-2101A	UCP-2101A	24VDC	D	24VDC	NIS											
211		HSP-2243A	A	COMPRESSOR STOP P.B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 9A				DI	UCP-2101A	UCP-2101A	24VDC	D	24VDC	NIS											
212		HSR-2243A	A	COMPRESSOR RESET P.B		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 9A				DI	UCP-2101A	UCP-2101A	24VDC	D	24VDC	NIS											
213		ESD-2231A	A	EMERGENCY SHUT DOWN P.B	EMERGENCY SHUT DOWN	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 8A				DIRF	UCP-2101A	UCP-2101A	24VDC	D	NO	NIS								ZONE2, IIB, T4			
214	VI-2205A	VS-2205A	A	VIBRATION SWITCH	LUB OIL COOLER (AE-2101-OC A1)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DIR	C-JBU-D-2102A	UCP-2101A				NIS											
		VAH-2205A		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
215	VI-2206A	VS-2206A	A	VIBRATION SWITCH	LUB OIL COOLER (AE-2101-OC A2)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DIR	C-JBU-D-2102A	UCP-2101A				NIS											
		VAH-2206A		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
216	VI-2207A	VS-2207A	A	VIBRATION SWITCH	WATER CONSULE COOLER (AE-2101-WC A1)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DIR	C-JBU-D-2102A	UCP-2101A				NIS											
		VAH-2207A		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
217	VI-2208A	VS-2208A	A	VIBRATION SWITCH	WATER CONSULE COOLER (AE-2101-WC A2)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DIR	C-JBU-D-2102A	UCP-2101A				NIS											
		VAH-2208A		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A	-	-	-	Serial link	UCP-2101A	DCS	24VDC														
218	XZSO-2225A	XZSO-2225A	A	BEARING DEVICE LIMIT SWITCH FEEDBACK	BEARING DEVICE (C-2101-BD A)	PACKAGE COMPRESSOR C-2101A	BK-GCS-HY-120-PR-PI-0001-SHEET 5A				DIR	C-JBU-D-2102A	UCP-2101A				NIS											

I/O Summery

Num	Signal type	Quantity	20% Spare	Total
1	AI	28	5.6	34
2	AIR	6	1.2	8
3	AIRF	14	2.8	17
4	AOR	1	1	2
5	DI	86	17.2	104
6	DIR	11	2.2	13
7	DIRF	9	1.8	11
8	DO	19	3.8	23
9	DOR	26	5.2	32
10	DORF	8	1.6	10

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تهیات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	8 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
1	POSV-2201B	POSV-2201B	A	SOLENOID VALVE	INST. AIR SUPPLY	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B				DORF	UCP-2101B	C-JBU-S-2101B	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD POSV-2201B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
2	POSV-2202B	POSV-2202B	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B				DORF	UCP-2101B	C-JBU-S-2101B	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD POSV-2202B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
3	POSV-2203B	POSV-2203B	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B				DORF	UCP-2101B	C-JBU-S-2101B	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD POSV-2203B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
4	POSV-2204B	POSV-2204B	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B				DORF	UCP-2101B	C-JBU-S-2101B	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD POSV-2204B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
5	POSV-2205B	POSV-2205B	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B				DORF	UCP-2101B	C-JBU-S-2101B	24VDC	W	24VDC	NIS	FAIL TO OPEN							ZONE2, IIB, T4			
	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD POSV-2205B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
6	FI-2121B	FT-2121B	A	FLOW TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	8"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-8710 0.1	Nm3/h Barg					ZONE2, IIB, T4			
		FI-2121B		FLOW INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
7	TI-2122B	TT-2122B	A	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	8"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2122B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
8	PDI-2122B	PDT-2122B	A	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	8"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-0.4	BARG					ZONE2, IIB, T4			
		PDI-2122B		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
9	PI-2123B	PT-2123B	A	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	8"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2123B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
10	TI-2123B	TT-2123B	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2123B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
11	PI-2124B	PT-2124B	A	PRESSURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2124B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
12	FI-2131B	FT-2131B	A	FLOW TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-8710 0.1	Nm3/h Barg					ZONE2, IIB, T4			
		FI-2131B		FLOW INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
13	TI-2132B	TT-2132B	A	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2132B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
14	PI-2132B	PT-2132B	A	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2132B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
15	PDI-2132B	PDT-2132B	A	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-0.4	BARG					ZONE2, IIB, T4			
		PDI-2132B		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
16	TI-2133B	TT-2133B	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2133B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
17	PI-2133B	PT-2133B	A	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			AI	JBU-A-2102 (Hirgan JB)	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-65	BARG					ZONE2, IIB, T4			
		PI-2133B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
18		PV-2123B		CONTROLLER	SPILL BACK VALVE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				AOR	UCP-2101B	JBU-A-2102 (Hirgan JB)			4-20mA	IS											
		PVZ-2123B	A	Feed back		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				AI	JBU-A-2102 (Hirgan JB)	UCP-2101B			4-20mA	IS											
		PVZI-2123B		Feed back		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS			4-20mA	IS											
19	PV-2123B	CZSO-2123B	A	LIMIT SWITCH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				DI	JBU-D-2103B (Hirgan JB)	UCP-2101B	24VDC	W		NIS											
20		CZSC-2123B	A	LIMIT SWITCH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				DI	JBU-D-2103B (Hirgan JB)	UCP-2101B	24VDC	W		NIS											
21		POSV-2123B	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				DORF	UCP-2101B	POSV-2123B	24VDC	W	24VDC	NIS	FAIL TO OPEN							ZONE2, IIB, T4			
		USD-I-60B	A	Trip Relay Center in UCP Internal USD POSV-2123B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B					Trip Relay UCP A	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
22	TI-2203B	TT-2203B	A	TEMPERATURE TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				AIR	C-JBU-A-2101B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2203B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				Serial link	UCP-2101B	DCS															
23	TI-2213B	TT-2213B	A	TEMPERATURE TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				AIR	C-JBU-A-2101B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2213B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				Serial link	UCP-2101B	DCS															
24	PI-2204B	PT-2204B	A	PRESSURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	2"			AIR	C-JBU-A-2101B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2204B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				Serial link	UCP-2101B	DCS															
25	PI-2220B	PT-2220B	A	PRESSURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	2"			AIR	C-JBU-A-2101B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2220B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				Serial link	UCP-2101B	DCS															
26	LI-2213B	LT-2213 A	A	LEVEL TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				AIR	C-JBU-A-2101B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-1350	mmH2O					ZONE2, IIB, T4			
		LI-2213B		LEVEL INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				Serial link	UCP-2101B	DCS															
27	TI-2191B	TT-2191B	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				AI	C-JBU-A-2101B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2191B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
28	TI-2194B	TT-2194B	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				AI	C-JBU-A-2101B	CCR	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2194B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
29	TI-2231B	TT-2231B	A	TEMPERATURE TRANSMITTER	WATER HEATER	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				AI	C-JBU-A-2101B	CCR	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2231B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				Serial link	UCP-2101B	DCS															
30	PI-2201B	PT-2201B	A	PRESSURE TRANSMITTER	ON INSTRUMENT LINE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B	2"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-16	BARG					ZONE2, IIB, T4			
		PI-2201B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 2B				Serial link	UCP-2101B	DCS															
31	PI-2210B	PT-2210B	A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 4B	1"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2210B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 4B				Serial link	UCP-2101B	DCS															
32	PI-2211B	PT-2211B	A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 4B	1"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2211B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 4B				Serial link	UCP-2101B	DCS															
33	PI-2212B	PT-2212B	A	PRESSURE TRANSMITTER	N2 TO Flare	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 4B	1"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2212B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 4B				Serial link	UCP-2101B	DCS															
34	PI-2200B	PT-2200B	A	PRESSURE TRANSMITTER	ON LUBRICATOR	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2200B		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				Serial link	UCP-2101B	DCS															
35	LI-2200B	LT-2200B	A	LEVEL TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-425	mmH2O					ZONE2, IIB, T4			
		LI-2200B		LEVEL INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				Serial link	UCP-2101B	DCS															
36	FI-2206B	FT-2206B	A	FLOW TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 6B	2"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-8710 0.2	m3/h Barg					ZONE2, IIB, T4			
		FI-2206B		FLOW INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 6B				Serial link	UCP-2101B	DCS															
37	TI-2204B	TT-2204B	A	TEMPERATURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	4"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2204B		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				Serial link	UCP-2101B	DCS															
38	PDI-2204B	PDT-2204B	A	DIFF. PRESSURE TRANSMITTER	LUBE OIL FILTER	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	1"			AI	C-JBU-A-2104B	UCP-2101B	24VDC	-	4-20mA Hart	IS		0-1	BARG					ZONE2, IIB, T4			
		PDI-2204B		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				Serial link	UCP-2101B	DCS															
39	ZI-2200B	ZT-2200B	A	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AI	C-JBU-A-2102B	UCP-2101B	24VDC	-	4-20mA	IS		4	mm					ZONE2, IIB, T4			
		ZI-2200B		ROD DROP INDICATOR		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
40	ZI-2201B	ZT-2201B	A	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AI	C-JBU-A-2102B	UCP-2101B	24VDC	-	4-20mA	IS		4	mm					ZONE2, IIB, T4			
		ZI-2201B		ROD DROP INDICATOR		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
41	XI-2200B	XT-2200B	A	Key Phasor	Key Phasor	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AI	C-JBU-A-2102B	UCP-2101B	24VDC	-	4-20mA	IS		1000	Rpm					ZONE2, IIB, T4			
		XI-2200B		Key Phasor		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	9 OF 15

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Inst. Location Layout	Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
42	TI-2214B	TT-2214B	A	TEMPERATURE TRANSMITTER	Main Motor Bearing	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2214B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
43	TI-2215B	TT-2215B	A	TEMPERATURE TRANSMITTER	Main Motor Bearing	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2215B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
44	TI-2216B	TT-2216B	A	TEMPERATURE TRANSMITTER	Com DE Bearing Temp	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2216B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
45	TI-2217B	TT-2217B	A	TEMPERATURE TRANSMITTER	Comp Packing RIGHT Temp	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2217B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
46	TI-2218B	TT-2218B	A	TEMPERATURE TRANSMITTER	Com NDE Bearing Temp	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2218B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
47	TI-2219B	TT-2219B	A	TEMPERATURE TRANSMITTER	Comp Packing LEFT Temp	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2219B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
48	TI-2220B	TT-2220B	A	TEMPERATURE TRANSMITTER	Com Mid Bearing Temp	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TI-2220B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
49	TI-2221B	TT-2221B	A	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	2"			_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		TT-2221B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				Serial link	UCP-2101B	DCS															
50	VI-2200B	VT-2200B	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		VI-2200B		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
51	VI-2201B	VT-2201B	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		VI-2201B		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
52	VI-2202B	VT-2202B	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				_	C-JBU-A-2103B	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC															
		VI-2202B		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
53	TI-2222B	TE-2222B	A	RTD THERMO ELEMENT	MAIN MOTOR R-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC			4-20mA												
		TI-2222B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
54	TI-2225B	TE-2225B	A	RTD THERMO ELEMENT	MAIN MOTOR S-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC			4-20mA												
		TI-2225B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
55	TI-2228B	TE-2228B	A	RTD THERMO ELEMENT	MAIN MOTOR T-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				AIRF	Trip Relay UCP A	UCP-2101B PLC			4-20mA												
		TI-2228B		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				Serial link	UCP-2101B	DCS															
56	TI-2191B	TS-2191B	A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				-	C-JBU-D-2101B	Trip Relay UCP A	24VDC		NC	NIS		150	°C								
		TAHH-2191B		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	-	-	-	DIRF	Trip Relay UCP A	UCP-2101B PLC	24VDC							03							
		TAHH-2191B		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
57	TI-2194B	TS-2194B	A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				-	C-JBU-D-2101B	Trip Relay UCP A				NIS		170	°C								
		TAHH-2194B		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				DIRF	Trip Relay UCP A	UCP-2101B PLC															
		TAHH-2194B		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
58	PI-2133B	PS-2133B	A	PRESSURE SWITCH	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	6"			-	C-JBU-D-2101B	Trip Relay UCP A				NIS		57	BARG								
		PAHH-2133B		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B				DIRF	Trip Relay UCP A	UCP-2101B PLC															
		PAHH-2133B		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 1B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
59	PI-2204B	PS-2204B	A	PRESSURE SWITCH	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				-	C-JBU-D-2101B	Trip Relay UCP A				NIS		1.2	BARG					ZONE2, IIB, T4			
		PAHH-2204B		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DIRF	Trip Relay UCP A	UCP-2101B PLC															
		PAHH-2204B		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
60	PI-2220B	PS-2220B	A	PRESSURE SWITCH	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	2"			-	C-JBU-D-2101B	Trip Relay UCP A				NIS		2	BARG								
		PAHH-2220B		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DIRF	Trip Relay UCP A	UCP-2101B PLC															
		PAHH-2220B		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
61		XSS-2200B	A	START COMMAND HEATER LUBRICATOR	HEATER ON LUBRICATOR	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
62		XSP-2200B	A	STOP COMMAND HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
63		USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
64		XR-2200B	A	RUNNING STATUS HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
65		XF-2200B	A	FAILURE STATUS HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
66		XSS-2201B	A	START COMMAND LUBRICATOR. OIL PUMP	LUBRICATOR. OIL PUMP (2101-LP B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
67		XSP-2201B	A	STOP COMMAND LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
68		USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
69		XR-2201B	A	RUNNING STATUS LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
70		XF-2201B	A	FAILURE STATUS LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
71		XSS-2202B	A	START COMMAND AUX. OIL PUMP	AUX. OIL PUMP (P-2101-AP B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
72		XSP-2202B	A	STOP COMMAND AUX. OIL PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
73		USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
74		XR-2202B	A	RUNNING STATUSAUX. OIL PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
72		XF-2202B	A	FAILURE STATUS AUX. OIL PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
75		XSP-2203B	A	START COMMAND HEATER CRANK CASE	HEATER CRANK CASE(H-2101-OH B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
76		XSS-2203B	A	STOP COMMAND HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
77		USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
78		XR-2203B	A	RUNNING STATUS HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
79		XF-2203B	A	FAILURE STATUS HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	10 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
80	XSS-2205B	XSS-2205B	A	START COMMAND LUB OIL COOLER MOTOR A	LUB OIL COOLER (AE-2101-OC B1)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
81	XSP-2205B	XSP-2205B	A	STOP COMMAND LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
82	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
83	XR-2205B	XR-2205B	A	RUNNING STATUS LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
84	XF-2205B	XF-2205B	A	FAILURE STATUS LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
85	XSS-2206B	XSS-2206B	A	START COMMAND LUB OIL COOLER MOTOR B	LUB OIL COOLER (AE-2101-OC B2)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
86	XSP-2206B	XSP-2206B	A	STOP COMMAND LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
87	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
88	XR-2206B	XR-2206B	A	RUNNING STATUS LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
89	XF-2206B	XF-2206B	A	FAILURE STATUS LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
90	XSS-2220B	XSS-2220B	A	START COMMAND WATER CONSULE COOLER MOTOR A	WATER CONSULE COOLER (AE-2101-WC B1)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
91	XSP-2220B	XSP-2220B	A	STOP COMMAND WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
92	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
93	XR-2220B	XR-2220B	A	RUNNING STATUS WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
94	XF-2220B	XF-2220B	A	FAILURE STATUS WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
95	XSS-2220B	XSS-2220B	A	START COMMAND WATER CONSULE COOLER MOTOR B	WATER CONSULE COOLER (AE-2101-WC B2)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
96	XSP-2220B	XSP-2220B	A	STOP COMMAND WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
97	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
98	XR-2220B	XR-2220B	A	RUNNING STATUS WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
99	XF-2220B	XF-2220B	A	FAILURE STATUS WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
100	XSS-2221B	XSS-2221B	A	START COMMAND AUX WATER PUMP	AUX WATER PUMP (P-2101-AX B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
101	XSP-2221B	XSP-2221B	A	STOP COMMAND AUX WATER PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
102	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
103	XR-2221B	XR-2221B	A	RUNNING STATUS AUX WATER PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
104	XF-2221B	XF-2221B	A	FAILURE STATUS AUX WATER PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
105	XSS-2222B	XSS-2222B	A	START COMMAND MAIN WATER PUMP	MAIN WATER PUMP (P-2101-WP B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
106	XSP-2222B	XSP-2222B	A	STOP COMMAND MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
107	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
108	XR-2222B	XR-2222B	A	RUNNING STATUS MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
109	XF-2222B	XF-2222B	A	FAILURE STATUS MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
110	XSS-2223B	XSS-2223B	A	START COMMAND HEATER WATER CONSULE	WATER CONSULE COOLER HEATER (H-2101-WHB)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
111	XSP-2223B	XSP-2223B	A	STOP COMMAND HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
112	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
113	XR-2223B	XR-2223B	A	RUNNING STATUS HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
114	XF-2223B	XF-2223B	A	FAILURE STATUS HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
115	XSS-2224B	XSS-2224B	A	START COMMAND	MAKE UP GAS COMPRESSOR MAIN MOTOR (M-2101-B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
116	XSP-2224B	XSP-2224B	A	STOP COMMAND		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
117	USD-I-60B	USD-I-60B	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
118	XR-2224B	XR-2224B	A	RUNNING STATUS		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
119	XF-2224B	XF-2224B	A	FAULT STATUS		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
120	XSS-2225B	XSS-2225B	A	START COMMAND	MOTOR BEARING DEVICE MOTOR (M-2101-BM-B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DOR	UCP-2101B	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
121	XSP-2225B	XSP-2225B	A	STOP COMMAND		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DOR	UCP-2101B	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
122	XR-2225B	XR-2225B	A	RUNNING STATUS		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
123	XF-2225B	XF-2225B	A	FAULT STATUS		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DI	MCC	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
											-																	
124		HST-2203B	A	PUSH BUTTON	OIL HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
125		HSP-2203B	A	PUSH BUTTON	OIL HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
126		HSL-2203B	A	SELECTOR SWITCH	OIL HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
127		HSR-2203B	A	SELECTOR SWITCH	OIL HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
128		HST-2202B	A	PUSH BUTTON	AUX. LUBE OIL PUMP START PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
129		HSP-2202B	A	PUSH BUTTON	AUX. LUBE OIL PUMP STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
130		HSL-2202B	A	SELECTOR SWITCH	AUX. LUBE OIL PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
131		HSR-2202B	A	SELECTOR SWITCH	AUX. LUBE OIL PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
132		HST-2200B	A	PUSH BUTTON	LUBRICATOR HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
133		HSP-2200B	A	PUSH BUTTON	LUBRICATOR HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
134		HSL-2200B	A	SELECTOR SWITCH	LUBRICATOR HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
135		HSR-2200B	A	SELECTOR SWITCH	LUBRICATOR HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
136		HST-2201B	A	PUSH BUTTON	LUBRICATOR MOTOR ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
137		HSP-2201B	A	PUSH BUTTON	LUBRICATOR HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
138		HSL-2201B	A	SELECTOR SWITCH	LUBRICATOR MOTOR LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
139		HSR-2201B	A	SELECTOR SWITCH	LUBRICATOR MOTOR REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
140		HST-2224B	A	PUSH BUTTON	MAIN MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
141		HSP-2224B	A	PUSH BUTTON	MAIN MOTOR STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
142		HSL-2224B	A	SELECTOR SWITCH	MAIN MOTOR LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
143		HSR-2224B	A	SELECTOR SWITCH	MAIN MOTOR REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
144		HST-2205B	A	PUSH BUTTON	OIL COOLER MOTOR A START PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
145		HSP-2205B	A	PUSH BUTTON	OIL COOLER MOTOR A STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
146		HSL-2205B	A	SELECTOR SWITCH	OIL COOLER MOTOR A LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
147		HSR-2205B	A	SELECTOR SWITCH	OIL COOLER MOTOR A REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
148		HST-2222B	A	PUSH BUTTON	MAIN WATER PUMP MOTOR START PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
149		HSP-2222B	A	PUSH BUTTON	MAIN WATER PUMP MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
150		HSL-2222B	A	SELECTOR SWITCH	MAIN WATER PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
151		HSR-2222B	A	SELECTOR SWITCH	MAIN WATER PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	11 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	IO Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
152		HSL-2221B	A	SELECTOR SWITCH	AUX WATER PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
153		HST-2221B	A	PUSH BUTTON	AUX WATER PUMP MOTOR START PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
154		HSP-2221B	A	PUSH BUTTON	AUX WATER PUMP MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
155		HSL-2221B	A	SELECTOR SWITCH	AUX WATER PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
156		HSR-2221B	A	PUSH BUTTON	WATER HEATER ON PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
157		HSL-2221B	A	PUSH BUTTON	WATER HEATER OFF PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
158		HSL-2223B	A	SELECTOR SWITCH	WATER HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
159		HSR-2223B	A	SELECTOR SWITCH	WATER HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
160		HST-2223B	A	PUSH BUTTON	WATER COOLER MOTOR A START PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
161		HSP-2223B	A	PUSH BUTTON	WATER COOLER MOTOR A STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
162		HSL-2220B	A	SELECTOR SWITCH	WATER COOLER MOTOR A LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
163		HSR--2220B	A	SELECTOR SWITCH	WATER COOLER MOTOR A REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
164		HST--2225B	A	PUSH BUTTON	BARRING MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
165		HSP--2225B	A	PUSH BUTTON	BARRING MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
166		HST-2206B	A	PUSH BUTTON	OIL COOLER MOTOR B	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
167		HSP-2206B	A	PUSH BUTTON	OIL COOLER MOTOR B	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DI	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
168		HSL-2206B	A	SELECTOR SWITCH	OIL COOLER MOTOR B LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
169		HSR-2206B	A	SELECTOR SWITCH	OIL COOLER MOTOR B REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
170		HST-2226B	A	PUSH BUTTON	WATER COOLER MOTOR B START PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
171		HSP-2226B	A	PUSH BUTTON	WATER COOLER MOTOR B STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
172		HSL-2226B	A	SELECTOR SWITCH	WATER COOLER MOTOR B LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
173		HSR--2226B	A	SELECTOR SWITCH	WATER COOLER MOTOR B REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
174		HSL-2241B	A	SELECTOR SWITCH	COMP LOCAL MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
175		HSR-2241B	A	SELECTOR SWITCH	COMP REMOTE MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
176		HSR-2243B	A	PUSH BUTTON	RESET PUSH BUTTON	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B				DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
177		HST-2241B	A	PUSH BUTTON	LAMP TEST PUSH BUTTON SWITCH	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DI	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
178		ESDL-2245B	A	PUSH BUTTON	EMERGENCY SHUT DOWN	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B				DIRF	LCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
179		HSL-2242B1	A	SELECTOR SWITCH	LOAD 0%	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DIR	UCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
180		HSL-2242B2	A	SELECTOR SWITCH	LOAD 25%	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DIR	UCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
181		HSL-2242B3	A	SELECTOR SWITCH	LOAD 50%	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DIR	UCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
182		HSL-2242B4	A	SELECTOR SWITCH	LOAD 75%	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DIR	UCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
183		HSL-2242B5	A	SELECTOR SWITCH	LOAD 100%	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DIR	UCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
184		XL-2203B	A	SIGNAL LAMP	OIL HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
185		XL-2202B	A	SIGNAL LAMP	AUX LUBE OILPUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
186		XL-2200B	A	SIGNAL LAMP	LUBRICATOR HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DO	UCP-2101B	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T4			
187		XL-2201B	A	SIGNAL LAMP	LUBRICATOR MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DO	UCP-2101B	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T4			
188		XL-2224B	A	SIGNAL LAMP	MAIN MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B	-	-	-	DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
189		XL-2205B	A	SIGNAL LAMP	OIL COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B	-	-	-	DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
190		XL-2222B	A	SIGNAL LAMP	MAIN WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
191		XL-2221B	A	SIGNAL LAMP	AUX WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
192		XL-2223B	A	SIGNAL LAMP	WATER HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
193		XL-2220B	A	SIGNAL LAMP	WATER COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
194		XL-2225B	A	SIGNAL LAMP	BARRING MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 7B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
195		XL-2206B	A	SIGNAL LAMP	OIL COOLER MOTOR B RUNNING	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 3B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
196		XL-2226B	A	SIGNAL LAMP	WATER COOLER B RUNNING	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
197		XSP-2245B	A	SIGNAL LAMP	COMP START PERMISSION	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B				DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
198		XF-2245B	A	SIGNAL LAMP	COMMON ALARM LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
199		ESDL-2245B	A	SIGNAL LAMP	COMMON SHUTDOWN LAMP	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B	-	-	-	DO	UCP-2101B	LCP-2101B	24VDC	W	NO	NIS								ZONE2, IIB, T4			
200		ESDR2-C-2101-A	A	TRIP COMMAND	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DIRF	ESD	UCP-2101B	24VDC	W	24VDC	NIS											
201		ESDR2-C-2101-A	A	TRIP COMMAND	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DIRF	ESD	UCP-2101B	24VDC	W	24VDC	NIS											
202		ESD2B-C-2101-A	A	TRIP FEEDBACK	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DORF	UCP-2101B	ESD	24VDC	D	24VDC	NIS											
203		ESD2-C-2101-A	A	TRIP FEEDBACK	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DORF	UCP-2101B	ESD	24VDC	D	24VDC	NIS											
204		PI-2121B	A	SPILL BACK	SPILL BACK	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				AIR	DCS	UCP-2101B	24VDC	-	4-20mA	NIS		BY CLIENT	BARG								
205		XS-2100B	A	Time Syc		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DI	DCS	UCP-2101B	24VDC	W	24VDC	NIS											
206		XSS-2123B	A	Permission to star		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DIR	DCS	UCP-2101B	24VDC	W	24VDC	NIS											
207		XSS-2124B	A	Ready to Start		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DO	UCP-2101B	DCS	24VDC	D	24VDC	NIS											
208		XR-2124B	A	Running Status		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1B				DO	UCP-2101B	DCS	24VDC	D	24VDC	NIS											
209		HSS-2126B	A	Request start Permission		PACKAGE COMPRESSOR C-2101 A	BK-GCS-HY-120-PR-PI-0001-SHEET 9B				DO	UCP-2101B	FCS	24VDC	D	24VDC	NIS											
210		HST-2243B	A	COMPRESSOR START P.B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 9B				DI	UCP-2101B	UCP-2101B	24VDC	D	24VDC	NIS											
211		HSP-2243B	A	COMPRESSOR STOP P.B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 9B				DI	UCP-2101B	UCP-2101B	24VDC	D	24VDC	NIS											
212		HSR-2243B	A	COMPRESSOR RESET P.B		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 9B				DI	UCP-2101B	UCP-2101B	24VDC	D	24VDC	NIS											
213		ESD-2231B	A	EMERGENCY SHUT DOWN P.B	EMERGENCY SHUT DOWN	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 8B				DIRF	UCP-2101B	UCP-2101B	24VDC	D	NO	NIS								ZONE2, IIB, T4			
214	VI-2205B	VS-2205B	A	VIBRATION SWITCH	LUB OIL COOLER (AE-2101-OC B1)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DIR	C-JBU-D-2102B	UCP-2101B				NIS											
		VAHH-2205B		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
215	VI-2206B	VS-2206B	A	VIBRATION SWITCH	LUB OIL COOLER (AE-2101-OC B2)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DIR	C-JBU-D-2102B	UCP-2101B				NIS											
		VAHH-2206B		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
216	VI-2207B	VS-2207B	A	VIBRATION SWITCH	WATER CONSULE COOLER (AE-2101-WC B1)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DIR	C-JBU-D-2102B	UCP-2101B				NIS											
		VAHH-2207B		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
217	VI-2208B	VS-2208B	A	VIBRATION SWITCH	WATER CONSULE COOLER (AE-2101-WC B2)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DIR	C-JBU-D-2102B	UCP-2101B				NIS											
		VAHH-2208B		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B	-	-	-	Serial link	UCP-2101B	DCS	24VDC														
218	XZSO-2225B	XZSO-2225B	A	BEARING DEVICE LIMIT SWITCH FEEDBACK	BEARING DEVICE (C-2101-BD B)	PACKAGE COMPRESSOR C-2101B	BK-GCS-HY-120-PR-PI-0001-SHEET 5B				DIR	C-JBU-D-2102B	UCP-2101B				NIS											

I/O Summery

Num	Signal type	Quantity	20% Spare	Total
1	AI	28	5.6	34
2	AIR	6	1.2	8
3	AIRF	14	2.8	17
4	AOR	1	1	2
5	DI	86	17.2	104
6	DIR	11	2.2	13
7	DIRF	9	1.8	11
8	DO	19	3.8	23
9	DOR	26	5.2	32
10	DORF	8	1.6	10

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	12 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
1	POSV-2201C	POSV-2201C	A	SOLENOID VALVE	INST. AIR SUPPLY	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C				DORF	UCP-2101C	JBU-S-2101C	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD POSV-2201C		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
2	POSV-2202C	POSV-2202C	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C				DORF	UCP-2101C	JBU-S-2101C	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD POSV-2202C		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
3	POSV-2203C	POSV-2203C	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C				DORF	UCP-2101C	JBU-S-2101C	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD POSV-2203C		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
4	POSV-2204C	POSV-2204C	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C				DORF	UCP-2101C	JBU-S-2101C	24VDC	W	24VDC	NIS	FAIL TO CLOSE							ZONE2, IIB, T4			
	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD POSV-2204C		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
5	POSV-2205C	POSV-2205C	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C				DORF	UCP-2101C	JBU-S-2101C	24VDC	W	24VDC	NIS	FAIL TO OPEN							ZONE2, IIB, T4			
	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD POSV-2205C		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
6	FI-2121C	FT-2121C	A	FLOW TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	8"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-8710 0.1	Nm3/h Barg					ZONE2, IIB, T4			
		FI-2121C		FLOW INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
7	TI-2122C	TT-2122C	A	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	8"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2122C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
8	PDI-2122C	PDT-2122C	A	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	8"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-0.4	BARG					ZONE2, IIB, T4			
		PDI-2122C		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
9	PI-2123C	PT-2123C	A	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 1S STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	8"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2123C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
10	TI-2123C	TT-2123C	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2123C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
11	PI-2124C	PT-2124C	A	PRESSURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2124C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
12	FI-2131C	FT-2131C	A	FLOW TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-8710 0.1	Nm3/h Barg					ZONE2, IIB, T4			
		FI-2131C		FLOW INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
13	TI-2132C	TT-2132C	A	TEMPERATURE TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2132C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
14	PI-2132C	PT-2132C	A	PRESSURE TRANSMITTER	ON SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-25	BARG					ZONE2, IIB, T4			
		PI-2132C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
15	PDI-2132C	PDT-2132C	A	DIFF. PRESSURE TRANSMITTER	STRAINER FILTER SUCTION SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-0.4	BARG					ZONE2, IIB, T4			
		PDI-2132C		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
16	TI-2133C	TT-2133C	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2133C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
17	PI-2133C	PT-2133C	A	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			AI	JBU-A-2105C (Hirgan JC)	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-65	BARG					ZONE2, IIB, T4			
		PI-2133C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
18		PV-2123C		CONTROLLER	SPILL BACK VALVE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				AOR	UCP-2101C	JBU-A-2103 (Hirgan JB)			4-20mA	IS											
		PVZ-2123C	A	Feed back		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				AI	JBU-A-2103 (Hirgan JB)	UCP-2101C			4-20mA	IS											
		PVZI-2123C		Feed back		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS			4-20mA	IS											
19	PV-2123C	CZSO-2123C	A	LIMIT SWITCH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				DI	JBU-D-2103C (Hirgan JC)	UCP-2101C	24VDC	W		NIS											
20		CZSC-2123C	A	LIMIT SWITCH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				DI	JBU-D-2103C (Hirgan JC)	UCP-2101C	24VDC	W		NIS											
21		POSV-2123C	A	SOLENOID VALVE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				DORF	UCP-2101C	POSV-2123C	24VDC	W	24VDC	NIS	FAIL TO OPEN							ZONE2, IIB, T4			
		USD-I-60C	A	Trip Relay Center in UCP Internal USD POSV-2123C		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C					Trip Relay UCP A	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
22	TI-2203C	TT-2203C	A	TEMPERATURE TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				AIR	JBU-A-2101C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2203C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				Serial link	UCP-2101C	DCS															
23	TI-2213C	TT-2213C	A	TEMPERATURE TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				AIR	JBU-A-2101C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2213C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				Serial link	UCP-2101C	DCS															
24	PI-2204C	PT-2204C	A	PRESSURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	2"			AIR	JBU-A-2101C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2204C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				Serial link	UCP-2101C	DCS															
25	PI-2220C	PT-2220C	A	PRESSURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	2"			AIR	JBU-A-2101C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2220C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				Serial link	UCP-2101C	DCS															
26	LI-2213C	LT-2213 A	A	LEVEL TRANSMITTER	WATER RESERVOIR	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				AIR	JBU-A-2101C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-1350	mmH2O					ZONE2, IIB, T4			
		LI-2213C		LEVEL INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				Serial link	UCP-2101C	DCS															
27	TI-2191C	TT-2191C	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				AI	JBU-A-2101C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2191C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
28	TI-2194C	TT-2194C	A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				AI	JBU-A-2101C	CCR	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2194C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
29	TI-2231C	TT-2231C	A	TEMPERATURE TRANSMITTER	WATER HEATER	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				AI	JBU-A-2101C	CCR	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
		TI-2231C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				Serial link	UCP-2101C	DCS															
30	PI-2201C	PT-2201C	A	PRESSURE TRANSMITTER	ON INSTRUMENT LINE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C	2"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-16	BARG					ZONE2, IIB, T4			
		PI-2201C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 2C				Serial link	UCP-2101C	DCS															
31	PI-2210C	PT-2210C	A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 4C	1"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2210C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 4C				Serial link	UCP-2101C	DCS															
32	PI-2211C	PT-2211C	A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 4C	1"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2211C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 4C				Serial link	UCP-2101C	DCS															
33	PI-2212C	PT-2212C	A	PRESSURE TRANSMITTER	N2 TO Flare	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 4C	1"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-6	BARG					ZONE2, IIB, T4			
		PI-2212C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 4C				Serial link	UCP-2101C	DCS															
34	PI-2200C	PT-2200C	A	PRESSURE TRANSMITTER	ON LUBRICATOR	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-10	BARG					ZONE2, IIB, T4			
		PI-2200C		PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				Serial link	UCP-2101C	DCS															
35	LI-2200C	LT-2200C	A	LEVEL TRANSMITTER	ON CRANK CASE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-425	mmH2O					ZONE2, IIB, T4			
		LI-2200C		LEVEL INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				Serial link	UCP-2101C	DCS															
36	FI-2206C	FT-2206C	A	FLOW TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 6C	2"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-8710 0.2	m3/h Barg					ZONE2, IIB, T4			
		FI-2206C		FLOW INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 6C				Serial link	UCP-2101C	DCS															
37	TI-2204C	TT-2204C	A	TEMPERATURE TRANSMITTER	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	4"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
		TI-2204C		TEMPERATURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				Serial link	UCP-2101C	DCS															
38	PDI-2204C	PDT-2204C	A	DIFF. PRESSURE TRANSMITTER	LUBE OIL FILTER	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	1"			AI	JBU-A-2104C	UCP-2101C	24VDC	-	4-20mA Hart	IS		0-1	BARG					ZONE2, IIB, T4			
		PDI-2204C		DIFF. PRESSURE INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				Serial link	UCP-2101C	DCS															
39	ZI-2200C	ZT-2200C	A	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AI	JBU-A-2102C	UCP-2101C	24VDC	-	4-20mA	IS		4	mm					ZONE2, IIB, T4			
		ZI-2200C		ROD DROP INDICATOR		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
40	ZI-2201C	ZT-2201C	A	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AI	JBU-A-2102C	UCP-2101C	24VDC	-	4-20mA	IS		4	mm					ZONE2, IIB, T4			
		ZI-2201C		ROD DROP INDICATOR		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
41	XI-2200C	XT-2200C	A	Key Phasor	Key Phasor	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AI	JBU-A-2102C	UCP-2101C	24VDC	-	4-20mA	IS		1000	Rpm					ZONE2, IIB, T4			
		XI-2200C		Key Phasor		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	13 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
42	TI-2214C	TT-2214C	A	TEMPERATURE TRANSMITTER	Main Motor Bearing	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2214C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
43	TI-2215C	TT-2215C	A	TEMPERATURE TRANSMITTER	Main Motor Bearing	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2215C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
44	TI-2216C	TT-2216C	A	TEMPERATURE TRANSMITTER	Com DE Bearing Temp	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2216C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
45	TI-2217C	TT-2217C	A	TEMPERATURE TRANSMITTER	Comp Packing RIGHT Temp	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC		4-20mA Hart	IS		0-200	°C								
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2217C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
46	TI-2218C	TT-2218C	A	TEMPERATURE TRANSMITTER	Com NDE Bearing Temp	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2218C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
47	TI-2219C	TT-2219C	A	TEMPERATURE TRANSMITTER	Comp Packing LEFT Temp	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2219C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
48	TI-2220C	TT-2220C	A	TEMPERATURE TRANSMITTER	Com Mid Bearing Temp	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TI-2220C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
49	TI-2221C	TT-2221C	A	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	2"			_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA Hart	IS		0-120	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		TT-2221C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				Serial link	UCP-2101C	DCS															
50	VI-2200C	VT-2200C	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		VI-2200C		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
51	VI-2201C	VT-2201C	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		VI-2201C		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
52	VI-2202C	VT-2202C	A	VIBRATION TRANSMITTER	FRAME VIBRATION	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				_	JBU-A-2103C	Trip Relay UCP A	24VDC	-	4-20mA	IS		25.4	mm/SEC , RMS					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC															
		VI-2202C		VIBRATION INDICATING		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
53	TI-2222C	TE-2222C	A	RTD THERMO ELEMENT	MAIN MOTOR R-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC			4-20mA												
		TI-2222C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
54	TI-2225C	TE-2225C	A	RTD THERMO ELEMENT	MAIN MOTOR S-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC			4-20mA												
		TI-2225C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
55	TI-2228C	TE-2228C	A	RTD THERMO ELEMENT	MAIN MOTOR T-PHASE WINDING TEMP.	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				-	M-2101-A Motor Aux JB	Trip Relay UCP A	24VDC	-	RTD	NIS		0-200	°C					ZONE2, IIB, T4			
						PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				AIRF	Trip Relay UCP A	UCP-2101C PLC			4-20mA												
		TI-2228C		TEMPERATURE INDICATION		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				Serial link	UCP-2101C	DCS															
56	TI-2191C	TS-2191C	A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				-	JBU-D-2101C	Trip Relay UCP A	24VDC		NC	NIS		150	°C								
		TAHH-2191C		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	-	-	-	DIRF	Trip Relay UCP A	UCP-2101C PLC	24VDC							03							
		TAHH-2191C		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
57	TI-2194C	TS-2194C	A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				-	JBU-D-2101C	Trip Relay UCP A				NIS		170	°C								
		TAHH-2194C		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				DIRF	Trip Relay UCP A	UCP-2101C PLC															
		TAHH-2194C		TEMPERATURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
58	PI-2133C	PS-2133C	A	PRESSURE SWITCH	ON DISCHARGE LINE SNUBBER 2ND STAGE	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	6"			-	JBU-D-2101C	Trip Relay UCP A				NIS		57	BARG								
		PAHH-2133C		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C				DIRF	Trip Relay UCP A	UCP-2101C PLC															
		PAHH-2133C		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 1C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
59	PI-2204C	PS-2204C	A	PRESSURE SWITCH	LUBE OIL FILTER DOWNSTREAM	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				-	JBU-D-2101C	Trip Relay UCP A				NIS		1.2	BARG					ZONE2, IIB, T4			
		PAHH-2204C		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DIRF	Trip Relay UCP A	UCP-2101C PLC															
		PAHH-2204C		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
60	PI-2220C	PS-2220C	A	PRESSURE SWITCH	WATER TO CYLINDERS	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	2"			-	JBU-D-2101C	Trip Relay UCP A				NIS		2	BARG								
		PAHH-2220C		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DIRF	Trip Relay UCP A	UCP-2101C PLC															
		PAHH-2220C		PRESSURE ALARM HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
61	XSS-2200C	XSS-2200C	A	START COMMAND HEATER LUBRICATOR	HEATER ON LUBRICATOR	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
62	XSP-2200C	XSP-2200C	A	STOP COMMAND HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
63	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
64	XR-2200C	XR-2200C	A	RUNNING STATUS HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
65	XF-2200C	XF-2200C	A	FAILURE STATUS HEATER LUBRICATOR		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
66	XSS-2201C	XSS-2201C	A	START COMMAND LUBRICATOR. OIL PUMP	LUBRICATOR. OIL PUMP (2101-LP C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
67	XSP-2201C	XSP-2201C	A	STOP COMMAND LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
68	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
69	XR-2201C	XR-2201C	A	RUNNING STATUS LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
70	XF-2201C	XF-2201C	A	FAILURE STATUS LUBRICATOR. OIL PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
71	XSS-2202C	XSS-2202C	A	START COMMAND AUX. OIL PUMP	AUX. OIL PUMP (P-2101-AP C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
72	XSP-2202C	XSP-2202C	A	STOP COMMAND AUX. OIL PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
73	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
74	XR-2202C	XR-2202C	A	RUNNING STATUSAUX. OIL PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
72	XF-2202C	XF-2202C	A	FAILURE STATUS AUX. OIL PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
75	XSP-2203C	XSP-2203C	A	START COMMAND HEATER CRANK CASE	HEATER CRANK CASE(H-2101-OH C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
76	XSS-2203C	XSS-2203C	A	STOP COMMAND HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
77	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
78	XR-2203C	XR-2203C	A	RUNNING STATUS HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
79	XF-2203C	XF-2203C	A	FAILURE STATUS HEATER CRANK CASE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	14 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	I/O Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
80	XSS-2205C	XSS-2205C	A	START COMMAND LUB OIL COOLER MOTOR A	LUB OIL COOLER (AE-2101-OC C1)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
81	XSP-2205C	XSP-2205C	A	STOP COMMAND LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
82	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
83	XR-2205C	XR-2205C	A	RUNNING STATUS LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
84	XF-2205C	XF-2205C	A	FAILURE STATUS LUB OIL COOLER MOTOR A		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
85	XSS-2206C	XSS-2206C	A	START COMMAND LUB OIL COOLER MOTOR B	LUB OIL COOLER (AE-2101-OC C2)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
86	XSP-2206C	XSP-2206C	A	STOP COMMAND LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
87	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
88	XR-2206C	XR-2206C	A	RUNNING STATUS LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
89	XF-2206C	XF-2206C	A	FAILURE STATUS LUB OIL COOLER MOTOR B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
90	XSS-2220C	XSS-2220C	A	START COMMAND WATER CONSULE COOLER MOTOR A	WATER CONSULE COOLER (AE-2101-WC C1)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
91	XSP-2220C	XSP-2220C	A	STOP COMMAND WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
92	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
93	XR-2220C	XR-2220C	A	RUNNING STATUS WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
94	XF-2220C	XF-2220C	A	FAILURE STATUS WATER CONSULE COOLER MOTOR A		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
95	XSS-2220C	XSS-2220C	A	START COMMAND WATER CONSULE COOLER MOTOR B	WATER CONSULE COOLER (AE-2101-WC C2)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
96	XSP-2220C	XSP-2220C	A	STOP COMMAND WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
97	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
98	XR-2220C	XR-2220C	A	RUNNING STATUS WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
99	XF-2220C	XF-2220C	A	FAILURE STATUS WATER CONSULE COOLER MOTOR B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
100	XSS-2221C	XSS-2221C	A	START COMMAND AUX WATER PUMP	AUX WATER PUMP (P-2101-AX C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
101	XSP-2221C	XSP-2221C	A	STOP COMMAND AUX WATER PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
102	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
103	XR-2221C	XR-2221C	A	RUNNING STATUS AUX WATER PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
104	XF-2221C	XF-2221C	A	FAILURE STATUS AUX WATER PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
105	XSS-2222C	XSS-2222C	A	START COMMAND MAIN WATER PUMP	MAIN WATER PUMP (P-2101-WP C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
106	XSP-2222C	XSP-2222C	A	STOP COMMAND MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
107	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
108	XR-2222C	XR-2222C	A	RUNNING STATUS MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
109	XF-2222C	XF-2222C	A	FAILURE STATUS MAIN WATER PUMP		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
110	XSS-2223C	XSS-2223C	A	START COMMAND HEATER WATER CONSULE	WATER CONSULE COOLER HEATER (H-2101-WHC)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
111	XSP-2223C	XSP-2223C	A	STOP COMMAND HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
112	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
113	XR-2223C	XR-2223C	A	RUNNING STATUS HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
114	XF-2223C	XF-2223C	A	FAILURE STATUS HEATER WATER CONSULE		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
115	XSS-2224C	XSS-2224C	A	START COMMAND	MAKE UP GAS COMPRESSOR MAIN MOTOR (M-2101-C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
116	XSP-2224C	XSP-2224C	A	STOP COMMAND		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
117	USD-I-60C	USD-I-60C	A	Trip Relay Center in UCP Internal USD		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C					Trip Relay UCP A	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
118	XR-2224C	XR-2224C	A	RUNNING STATUS		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
119	XF-2224C	XF-2224C	A	FAULT STATUS		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
120	XSS-2225C	XSS-2225C	A	START COMMAND	MOTOR BEARING DEVICE MOTOR (M-2101-BM-C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DOR	UCP-2101C	MCC	24VDC	D	NO	NIS								ZONE2, IIB, T4			
121	XSP-2225C	XSP-2225C	A	STOP COMMAND		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DOR	UCP-2101C	MCC	24VDC	D	NC	NIS								ZONE2, IIB, T4			
122	XR-2225C	XR-2225C	A	RUNNING STATUS		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
123	XF-2225C	XF-2225C	A	FAULT STATUS		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DI	MCC	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
											-																	
124		HST-2203C	A	PUSH BUTTON	OIL HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
125		HSP-2203C	A	PUSH BUTTON	OIL HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
126		HSL-2203C	A	SELECTOR SWITCH	OIL HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
127		HSR-2203C	A	SELECTOR SWITCH	OIL HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
128		HST-2202C	A	PUSH BUTTON	AUX. LUBE OIL PUMP START PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
129		HSP-2202C	A	PUSH BUTTON	AUX. LUBE OIL PUMP STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
130		HSL-2202C	A	SELECTOR SWITCH	AUX. LUBE OIL PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
131		HSR-2202C	A	SELECTOR SWITCH	AUX. LUBE OIL PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
132		HST-2200C	A	PUSH BUTTON	LUBRICATOR HEATER ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
133		HSP-2200C	A	PUSH BUTTON	LUBRICATOR HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
134		HSL-2200C	A	SELECTOR SWITCH	LUBRICATOR HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
135		HSR-2200C	A	SELECTOR SWITCH	LUBRICATOR HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
136		HST-2201C	A	PUSH BUTTON	LUBRICATOR MOTOR ON PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
137		HSP-2201C	A	PUSH BUTTON	LUBRICATOR HEATER OFF PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
138		HSL-2201C	A	SELECTOR SWITCH	LUBRICATOR MOTOR LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
139		HSR-2201C	A	SELECTOR SWITCH	LUBRICATOR MOTOR REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
140		HST-2224C	A	PUSH BUTTON	MAIN MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
141		HSP-2224C	A	PUSH BUTTON	MAIN MOTOR STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
142		HSL-2224C	A	SELECTOR SWITCH	MAIN MOTOR LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
143		HSR-2224C	A	SELECTOR SWITCH	MAIN MOTOR REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
144		HST-2205C	A	PUSH BUTTON	OIL COOLER MOTOR A START PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
145		HSP-2205C	A	PUSH BUTTON	OIL COOLER MOTOR A STOP PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
146		HSL-2205C	A	SELECTOR SWITCH	OIL COOLER MOTOR A LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
147		HSR-2205C	A	SELECTOR SWITCH	OIL COOLER MOTOR A REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
148		HST-2222C	A	PUSH BUTTON	MAIN WATER PUMP MOTOR START PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
149		HSP-2222C	A	PUSH BUTTON	MAIN WATER PUMP MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
150		HSL-2222C	A	SELECTOR SWITCH	MAIN WATER PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
151		HSR-2222C	A	SELECTOR SWITCH	MAIN WATER PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			

NISOC

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

HAVAYAR INDUSTRIAL GROUP

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه		شماره صفحه:
9184 – 073 - 053	BK	GCS	HY	120	IN	LI	0005	V02	15 OF 15	

Item No.	LOOP NUMBER	Tag Number	Unit Number	Description	Service 1	Service 2	P&ID No.	line Size	Connection Size	Connection Rating	IO Type	Location, Signal (From)	Location, Signal (To)	Power Supply	WD	Signal Type	IS/NIS	Valve Action	Range/ Alarm Set point	Eng. Units	Engineering Documents: Loop Diagram No.	Engineering Documents: Inst. Location Layout	Engineering Documents: Hook-Up Drawing	Data Sheet	Hazardous Area	Manufacturer	Model Number	Remark
152		HSL-2221C	A	SELECTOR SWITCH	AUX WATER PUMP LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
153		HST-2221C	A	PUSH BUTTON	AUX WATER PUMP MOTOR START PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
154		HSP-2221C	A	PUSH BUTTON	AUX WATER PUMP MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
155		HSL-2221C	A	SELECTOR SWITCH	AUX WATER PUMP REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
156		HSR-2221C	A	PUSH BUTTON	WATER HEATER ON PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
157		HSL-2221C	A	PUSH BUTTON	WATER HEATER OFF PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
158		HSL-2223C	A	SELECTOR SWITCH	WATER HEATER LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
159		HSR-2223C	A	SELECTOR SWITCH	WATER HEATER REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
160		HST-2223C	A	PUSH BUTTON	WATER COOLER MOTOR A START PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
161		HSP-2223C	A	PUSH BUTTON	WATER COOLER MOTOR A STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
162		HSL-2220C	A	SELECTOR SWITCH	WATER COOLER MOTOR A LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
163		HSR--2220C	A	SELECTOR SWITCH	WATER COOLER MOTOR A REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
164		HST--2225C	A	PUSH BUTTON	BARRING MOTOR START PUSHBUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
165		HSP--2225C	A	PUSH BUTTON	BARRING MOTOR STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
166		HST-2206C	A	PUSH BUTTON	OIL COOLER MOTOR B	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
167		HSP-2206C	A	PUSH BUTTON	OIL COOLER MOTOR B	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DI	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
168		HSL-2206C	A	SELECTOR SWITCH	OIL COOLER MOTOR B LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
169		HSR-2206C	A	SELECTOR SWITCH	OIL COOLER MOTOR B REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
170		HST-2226C	A	PUSH BUTTON	WATER COOLER MOTOR B START PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
171		HSP-2226C	A	PUSH BUTTON	WATER COOLER MOTOR B STOP PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
172		HSL-2226C	A	SELECTOR SWITCH	WATER COOLER MOTOR B LOCAL SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
173		HSR--2226C	A	SELECTOR SWITCH	WATER COOLER MOTOR B REMOTE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
174		HSL-2241C	A	SELECTOR SWITCH	COMP LOCAL MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
175		HSR-2241C	A	SELECTOR SWITCH	COMP REMOTE MODE SELECTOR SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
176		HSR-2243C	A	PUSH BUTTON	RESET PUSH BUTTON	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C				DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
177		HST-2241C	A	PUSH BUTTON	LAMP TEST PUSH BUTTON SWITCH	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DI	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
178		ESDL-2245C	A	PUSH BUTTON	EMERGENCY SHUT DOWN	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C				DIRF	LCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
179		HSL-2242C1	A	SELECTOR SWITCH	LOAD 0%	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DIR	UCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
180		HSL-2242C2	A	SELECTOR SWITCH	LOAD 25%	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DIR	UCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
181		HSL-2242C3	A	SELECTOR SWITCH	LOAD 50%	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DIR	UCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
182		HSL-2242C4	A	SELECTOR SWITCH	LOAD 75%	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DIR	UCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
183		HSL-2242C5	A	SELECTOR SWITCH	LOAD 100%	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DIR	UCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
184		XL-2203C	A	SIGNAL LAMP	OIL HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
185		XL-2202C	A	SIGNAL LAMP	AUX LUBE OILPUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
186		XL-2200C	A	SIGNAL LAMP	LUBRICATOR HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DO	UCP-2101C	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T4			
187		XL-2201C	A	SIGNAL LAMP	LUBRICATOR MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DO	UCP-2101C	LCP	24VDC	W	NO	NIS								ZONE2, IIB, T4			
188		XL-2224C	A	SIGNAL LAMP	MAIN MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C	-	-	-	DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
189		XL-2205C	A	SIGNAL LAMP	OIL COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C	-	-	-	DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
190		XL-2222C	A	SIGNAL LAMP	MAIN WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
191		XL-2221C	A	SIGNAL LAMP	AUX WATER PUMP MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
192		XL-2223C	A	SIGNAL LAMP	WATER HEATER RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
193		XL-2220C	A	SIGNAL LAMP	WATER COOLER MOTOR A RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
194		XL-2225C	A	SIGNAL LAMP	BARRING MOTOR RUNNING LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 7C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
195		XL-2206C	A	SIGNAL LAMP	OIL COOLER MOTOR B RUNNING	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 3C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
196		XL-2226C	A	SIGNAL LAMP	WATER COOLER B RUNNING	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
197		XSP-2245C	A	SIGNAL LAMP	COMP START PERMISSION	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C				DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
198		XF-2245C	A	SIGNAL LAMP	COMMON ALARM LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
199		ESDL-2245C	A	SIGNAL LAMP	COMMON SHUTDOWN LAMP	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C	-	-	-	DO	UCP-2101C	LCP-2101C	24VDC	W	NO	NIS								ZONE2, IIB, T4			
200		ESDR2-C-2101-A	A	TRIP COMMAND	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DIRF	ESD	UCP-2101C	24VDC	W	24VDC	NIS											
201		ESDR2-C-2101-A	A	TRIP COMMAND	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DIRF	ESD	UCP-2101C	24VDC	W	24VDC	NIS											
202		ESD2C-C-2101-A	A	TRIP FEEDBACK	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DORF	UCP-2101C	ESD	24VDC	D	24VDC	NIS											
203		ESD2-C-2101-A	A	TRIP FEEDBACK	ESD	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DORF	UCP-2101C	ESD	24VDC	D	24VDC	NIS											
204		PI-2121C	A	SPILL BACK	SPILL BACK	PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				AIR	DCS	UCP-2101C	24VDC	-	4-20mA	NIS		BY CLIENT	BARG								
205		XS-2100C	A	Time Syc		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DI	DCS	UCP-2101C	24VDC	W	24VDC	NIS											
206		XSS-2123C	A	Permission to star		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DIR	DCS	UCP-2101C	24VDC	W	24VDC	NIS											
207		XSS-2124C	A	Ready to Start		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DO	UCP-2101C	DCS	24VDC	D	24VDC	NIS											
208		XR-2124C	A	Running Status		PACKAGE COMPRESSOR C-2101 A	BK-GCS-PEDCO-120-PR-PI-0011-SHEET 1C				DO	UCP-2101C	DCS	24VDC	D	24VDC	NIS											
209		HSS-2126C	A	Request start Permission		PACKAGE COMPRESSOR C-2101 A	BK-GCS-HY-120-PR-PI-0001-SHEET 9C				DO	UCP-2101C	FCS	24VDC	D	24VDC	NIS											
210		HST-2243C	A	COMPRESSOR START P.B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 9C				DI	UCP-2101C	UCP-2101C	24VDC	D	24VDC	NIS											
211		HSP-2243C	A	COMPRESSOR STOP P.B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 9C				DI	UCP-2101C	UCP-2101C	24VDC	D	24VDC	NIS											
212		HSR-2243C	A	COMPRESSOR RESET P.B		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 9C				DI	UCP-2101C	UCP-2101C	24VDC	D	24VDC	NIS											
213		ESD-2231C	A	EMERGENCY SHUT DOWN P.B	EMERGENCY SHUT DOWN	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 8C				DIRF	UCP-2101C	UCP-2101C	24VDC	D	NO	NIS								ZONE2, IIB, T4			
214	VI-2205C	VS-2205C	A	VIBRATION SWITCH	LUB OIL COOLER (AE-2101-OC C1)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DIR	JBU-D-2102C	UCP-2101C				NIS											
		VAHH-2205C		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
215	VI-2206C	VS-2206C	A	VIBRATION SWITCH	LUB OIL COOLER (AE-2101-OC C2)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DIR	JBU-D-2102C	UCP-2101C				NIS											
		VAHH-2206C		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
216	VI-2207C	VS-2207C	A	VIBRATION SWITCH	WATER CONSULE COOLER (AE-2101-WC C1)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DIR	JBU-D-2102C	UCP-2101C				NIS											
		VAHH-2207C		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
217	VI-2208C	VS-2208C	A	VIBRATION SWITCH	WATER CONSULE COOLER (AE-2101-WC C2)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DIR	JBU-D-2102C	UCP-2101C				NIS											
		VAHH-2208C		VIBRATION SWITCH HIGH HIGH		PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C	-	-	-	Serial link	UCP-2101C	DCS	24VDC														
218	XZSO-2225C	XZSO-2225C	A	BEARING DEVICE LIMIT SWITCH FEEDBACK	BEARING DEVICE (C-2101-BD C)	PACKAGE COMPRESSOR C-2101C	BK-GCS-HY-120-PR-PI-0001-SHEET 5C				DIR	JBU-D-2102C	UCP-2101C				NIS											

I/O Summery

Num	Signal type	Quantity	20% Spare	Total
1	AI	28	5.6	34
2	AIR	6	1.2	8
3	AIRF	14	2.8	17
4	AOR	1	1	2
5	DI	86	17.2	104
6	DIR	11	2.2	13
7	DIRF	9	1.8	11
8	DO	19	3.8	23
9	DOR	26	5.2	32
10	DORF	8	1.6	10