

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک (قرارداد ۰۳_۰۸-۰۰۰-BK-HD-GCS-CO)								 HAVAYAR INDUSTRIAL GROUP
	ALARM AND SET POINT LIST								
	Contract No:	Project	Packag	Issuer	Facility	Dicipline	Doc.	Sequenc	
053-073-9184	BK	GCS	HY	120	IN	LI	0004	V03	شماره صفحه: 1 از 5

طرح نگهداشت و افزایش تولید ۲۷ مخزن

ALARM AND SET POINT LIST

نگهداشت و افزایش تولید میدان نفتی بینک

V03	FEB.2025	IFR	Havayar CO	M.Fakharian	S.Faramarzpour	
V02	JULY.2024	IFR	Havayar CO	M.Fakharian	M.SADEGHIAN	
V01	MAY.2024	IFR	Havayar CO	M.Fakharian	S.Faramarzpour	
V00	FEB.2023	IFR	Havayar CO	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
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 BK-HD-GCS-CO-۰۰۰۸-۰۳ (قرارداد)								
	ALARM AND SET POINT LIST								
Contract No: 053-073-9184	Project	Packag	Issue	Facility	Dicipline	Doc.	Sequend	Rev	شماره صفحه: 2 از 5
	BK	GCS	HY	120	IN	LI	0004	V03	

REVISION RECORD SHEET

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2	X	X	X	X	
3	X	X	X	X	
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Binak Oil Field Development Project
Reciprocating Sour Gas Compressors



HAVAYAR
INDUSTRIAL GROUP

Contract No:

ALARM AND SET POINT LIST

Project

Package

Issuer

Facility

Dicipline

Doc

Sequence

Rev

Contract No:
053-073-9184

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شماره صفحه: 3 از 5

Item No.	Tag Number	Description	Service 1	P&ID NUMBER	Operatin	Design	set point	Diff. Press. Nor Max	Alarm Action		Shut Down Action		Range	Eng. Units	Remark
									L	H	LL	HH			
1	PDT-2122A	DIFF PRESSURE TRANSMITTER	STRAINER FILTER SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1A	4.9	22	—	0.1 0.2	—	0.2	—	—	0-0.4	BARG	
2	PT-2123A	PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1A	4.9	22	—	-	4.4	6	—	—	0-10	BARG	
3	TT-2191A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1A	129	180	—	-	—	140	—	—	0-200	°C	
4	TS-2191A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1A	129	180	150	—	—	—	—	150	130-190	°C	
5	PT-2124A	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1A	18	22	—	-	—	21.5	—	—	0-25	BARG	
6	PDT-2132A	DIFF PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	17.1	22	—	0.1 0.2	—	0.2	—	—	0-0.4	BARG	
7	PT-2132A	PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	17.1	24.5	—	-	14.7	—	—	—	0-25	BARG	
8	TT-2194A	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	148	180	—	-	—	160	—	—	0-200	°C	
9	TS-2194A	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	148	180	170	—	—	—	—	170	130-190	°C	
10	PT-2133A	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	54.9	62	—	-	—	56	—	—	0-65	BARG	
11	PS-2133A	PRESSURE SWITCH	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	54.9	62	57	-	—	—	—	57	16-100	BARG	
12	PT-2200A	PRESSURE TRANSMITTER	ON LUBRICATOR	BK-GCS-HY-120-PR-PI-0001 3A	6	10	—	-	4	—	—	—	0-10	BARG	
13	LT-2200A	LEVEL TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3A	107.5	258	—	-	32.25	—	—	—	0-258	mmH2O	start permission :37.5
14	TT-2203A	TEMPERATURE TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3A	70	85	—	-	15	35	—	—	0-120	°C	Stop/Start Heater Crank Case. AOP start permission:16 °C
15	PT-2204A	PRESSURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3A	5	10	—	-	1.5	5	—	—	0-10	BARG	AOP start / Stop and Low Alarm Compressor start permission: 5 barg
16	PS-2204A	PRESSURE SWITCH	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3A	5	10	1.2	-	—	—	1.2	—	0.8-6	BARG	
17	TT-2204A	TEMPERATURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3A	60	85	—	-	5	65	—	—	0-120	°C	Compressor start permission :35 °C
18	PDT-2204A	DIFF PRESSURE TRANSMITTER	LUBE OIL FILTER	BK-GCS-HY-120-PR-PI-0001 3A	5	10	—	0.1 0.5	—	0.7	—	—	0-1	BARG	
19	PT-2210A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4A	2	5	—	-	1.2	—	—	—	0-3	BARG	Compressor start permission: 1.2 barg
20	PT-2211A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4A	0.5	5	—	-	0.2	—	—	—	0-3	BARG	Compressor start permission: 0.2 barg
21	PT-2212A	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1	5	—	-	—	4	—	—	0-2	BARG	
22	LT-2213A	LEVEL TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5A	0	1250	—	-	400	—	300	—	0-1250	mmH2O	LL: Main & Aux water pumps stop
23	TT-2213A	TEMPERATURE TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5A	70	85	—	-	60	63	—	—	0-120	°C	Stop/Start Heater Water Reservor
24	PS-2220A	PRESSURE SWITCH	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5A	3	10	2	-	—	—	2	—	0.8-6	BARG	
25	PT-2220A	PRESSURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5A	3	10	—	-	2.5	5	—	—	0-6	BARG	Stop/Start Aux Water Pump. Compressor start permission: 3 barg
26	TT-2221A	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5A	63	85	—	-	60	66	—	70	0-120	°C	Compressor start permission: 63 °C
27	TT-2231A	TEMPERATURE TRANSMITTER	WATER RESERVOIR HEATER	BK-GCS-HY-120-PR-PI-0001 5A	70	85	—	-	—	95	-	105	-10 -120	°C	Stop Heater Water Reservor
28	VT-2200A	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7A	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
29	VT-2201A	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7A	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
30	VT-2202A	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7A	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
31	ZT-2200A	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7A	0.5	5	—	-	—	0.6	—	—	0.5-5	mm	
32	ZT-2201A	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7A	0.5	5	—	-	—	0.69	—	—	0.5-5	mm	
33	TT-2214A	TEMPERATURE TRANSMITTER	MOTOR NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7A	N/A	N/A	—	-	—	90	—	95	0-200	°C	
34	TT-2215A	TEMPERATURE TRANSMITTER	MOTOR DE BEARING	BK-GCS-HY-120-PR-PI-0001 7A	N/A	N/A	—	-	—	90	—	95	0-200	°C	
35	TT-2216A	TEMPERATURE TRANSMITTER	COMP DE BEARING	BK-GCS-HY-120-PR-PI-0001 7A	0	180	—	-	—	95	-	105	0-200	°C	
36	TT-2217A	TEMPERATURE TRANSMITTER	Right Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7A	0	180	—	-	—	120	-	130	0-200	°C	
37	TT-2218A	TEMPERATURE TRANSMITTER	COMP NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7A	0	180	—	-	—	95	-	105	0-200	°C	
38	TT-2219A	TEMPERATURE TRANSMITTER	LEFT Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7A	0	180	—	-	—	120	-	130	0-200	°C	
39	TT-2220A	TEMPERATURE TRANSMITTER	COMP MID BEARING	BK-GCS-HY-120-PR-PI-0001 7A	0	180	—	-	—	95	-	105	0-200	°C	
40	TE-2222A	TEMPERATURE ELEMET	MOTOR WINDING R	BK-GCS-HY-120-PR-PI-0001 7A	N/A	N/A	—	-	—	135	-	145	0-200	°C	
41	TE-2225A	TEMPERATURE ELEMET	MOTOR WINDING S	BK-GCS-HY-120-PR-PI-0001 7A	N/A	N/A	—	-	—	135	-	145	0-200	°C	
42	TE-2228A	TEMPERATURE ELEMET	MOTOR WINDING T	BK-GCS-HY-120-PR-PI-0001 7A	N/A	N/A	—	-	—	135	-	145	0-200	°C	
43	XT-2200A	Rotation Speed	Rotation Speed	BK-GCS-HY-120-PR-PI-0001 7A	N/A	N/A	—	-	—	430	-	-	0-1000	RPM	
44	PCV-2120A	PRESSURE REGULATOR	INSTRUMENT AIR	BK-GCS-HY-120-PR-PI-0001 3A	6	12.5	6	-	—	—	—	—	—	BARG	
45	PCV-2205A	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4A	0.5	5	0.5	-	—	—	—	—	—	BARG	
46	PCV-2206A	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4A	2	5	2	-	—	—	—	—	—	BARG	
47	PCV-2201A	PRESSURE REGULATOR	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5A	6	10	6	-	—	—	—	—	—	BARG	
48	PSV-2132A	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	54.9	62	62	-	—	—	—	—	—	BARG	
49	PSV-2133A	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1A	54.9	62	62	-	—	—	—	—	—	BARG	
50	PSV-2122A	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 1st STAGE	BK-GCS-HY-120-PR-PI-0001 1A	18	22	22	-	—	—	—	—	—	BARG	
51	PSV-2123A	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 1st STAGE	BK-GCS-HY-120-PR-PI-0001 1A	18	22	22	-	—	—	—	—	—	BARG	
52	RV-2200A	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5A	5	10	7	-	—	—	—	—	—	BARG	
53	RV-2201A	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5A	5	10	7	-	—	—	—	—	—	BARG	
54	PSV-2203A	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4A	0.5	5	2.8	-	—	—	—	—	—	BARG	
55	PSV-2204A	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4A	2	5	2.8	-	—	—	—	—	—	BARG	



Contract No:

ALARM AND SET POINT LIST

BK	GCS	HY	120	IN	LI	0004	V03
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Contract No:
053-073-9184

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Item No.	Tag Number	Description	Service 1	P&ID NUMBER			set point	Diff. Press. Nor Max	Alarm Action		Shut Down Action		Range	Eng. Units	Remark
					Operatin	Design			L	H	LL	HH			
1	PDT-2122B	DIFF PRESSURE TRANSMITTER	STRAINER FILTER SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1B	4.9	22	—	0.1 0.2	—	0.2	—	—	0-0.4	BARG	
2	PT-2123B	PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	4.9	22	—	-	4.4	6	—	—	0-10	BARG	
3	TT-2191B	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	129	180	—	-	—	140	—	—	0-200	°C	
4	TS-2191B	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	129	180	150	-	—	—	—	150	130-190	°C	
5	PT-2124B	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	18	22	—	-	—	21.5	—	—	0-25	BARG	
6	PDT-2132B	DIFF PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	17.1	22	—	0.1 0.2	—	0.2	—	—	0-0.4	BARG	
7	PT-2132B	PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	17.1	24.5	—	-	14.7	—	—	—	0-25	BARG	
8	TT-2194B	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	148	180	—	-	—	160	—	—	0-200	°C	
9	TS-2194B	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	148	180	170	-	—	—	—	170	130-190	°C	
10	PT-2133B	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9	62	—	-	—	56	—	—	0-65	BARG	
11	PS-2133B	PRESSURE SWITCH	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9	62	57	-	—	—	—	57	16-100	BARG	
12	PT-2200B	PRESSURE TRANSMITTER	ON LUBRICATOR	BK-GCS-HY-120-PR-PI-0001 3B	6	10	—	-	4	—	—	—	0-10	BARG	start permission :37.5 mmH2O Stop/Start Heater Crank Case. AOP start / Stop and Low Alarm Compressor start permission: 5 barg
13	LT-2200B	LEVEL TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3B	107.5	258	—	-	32.25	—	—	—	0-258	mmH2O	
14	TT-2203B	TEMPERATURE TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3B	70	85	—	-	15	35	—	—	0-120	°C	
15	PT-2204B	PRESSURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3B	5	10	—	-	1.5	5	—	—	0-10	BARG	
16	PS-2204B	PRESSURE SWITCH	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3B	5	10	1.2	-	—	—	1.2	—	0-8.6	BARG	
17	TT-2204B	TEMPERATURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3B	60	85	—	-	5	65	—	—	0-120	°C	Compressor start permission :35 °C
18	PDT-2204B	DIFF PRESSURE TRANSMITTER	LUBE OIL FILTER	BK-GCS-HY-120-PR-PI-0001 3B	5	10	—	0.1 0.5	—	0.7	—	—	0-1	BARG	
19	PT-2210B	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	2	5	—	-	1.2	—	—	—	0-3	BARG	Compressor start permission: 1.2 barg
20	PT-2211B	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	0.5	5	—	-	0.2	—	—	—	0-3	BARG	Compressor start permission: 0.2 barg
21	PT-2212B	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1	5	—	-	—	4	—	—	0-2	BARG	
22	LT-2213B	LEVEL TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5B	0	1250	—	-	400	—	300	—	0-1250	mmH2O	LL: Main & Aux water pumps stop Stop/Start Heater Water Reservoir
23	TT-2213B	TEMPERATURE TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5B	70	85	—	-	60	63	—	—	0-120	°C	
24	PS-2220B	PRESSURE SWITCH	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5B	3	10	2	-	—	—	2	—	0-8.6	BARG	
25	PT-2220B	PRESSURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5B	3	10	—	-	2.5	5	—	—	0-6	BARG	Stop/Start Aux Water Pump. Compressor start permission: 3 barg
26	TT-2221B	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5B	63	85	—	-	60	66	—	70	0-120	°C	Compressor start permission: 63 °C
27	TT-2231B	TEMPERATURE TRANSMITTER	WATER RESERVOIR HEATER	BK-GCS-HY-120-PR-PI-0001 5B	70	85	—	-	—	95	-	105	-10 -120	°C	Stop Heater Water Reservoir
28	VT-2200B	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7B	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
29	VT-2201B	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7B	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
30	VT-2202B	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7B	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
31	ZT-2200B	ROD DROP TRANSMITTER	Left Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7B	0.5	5	—	-	—	0.6	—	—	0.5-5	mm	
32	ZT-2201B	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7B	0.5	5	—	-	—	0.69	—	—	0.5-5	mm	
33	TT-2214B	TEMPERATURE TRANSMITTER	MOTOR NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	N/A	N/A	—	-	—	90	—	95	0-200	°C	
34	TT-2215B	TEMPERATURE TRANSMITTER	MOTOR DE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	N/A	N/A	—	-	—	90	—	95	0-200	°C	
35	TT-2216B	TEMPERATURE TRANSMITTER	COMP DE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0	180	—	-	—	95	-	105	0-200	°C	
36	TT-2217B	TEMPERATURE TRANSMITTER	Right Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7B	0	180	—	-	—	120	-	130	0-200	°C	
37	TT-2218B	TEMPERATURE TRANSMITTER	COMP NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0	180	—	-	—	95	-	105	0-200	°C	
38	TT-2219B	TEMPERATURE TRANSMITTER	LEFT Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7B	0	180	—	-	—	120	-	130	0-200	°C	
39	TT-2220B	TEMPERATURE TRANSMITTER	COMP MID BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0	180	—	-	—	95	-	105	0-200	°C	
40	TE-2222B	TEMPERATURE ELEMET	MOTOR WINDING R	BK-GCS-HY-120-PR-PI-0001 7B	N/A	N/A	—	-	—	135	-	145	0-200	°C	
41	TE-2225B	TEMPERATURE ELEMET	MOTOR WINDING S	BK-GCS-HY-120-PR-PI-0001 7B	N/A	N/A	—	-	—	135	-	145	0-200	°C	
42	TE-2228B	TEMPERATURE ELEMET	MOTOR WINDING T	BK-GCS-HY-120-PR-PI-0001 7B	N/A	N/A	—	-	—	135	-	145	0-200	°C	
43	XT-2200B	Rotation Speed	Rotation Speed	BK-GCS-HY-120-PR-PI-0001 7B	N/A	N/A	—	-	—	430	-	-	0-1000	RPM	
44	PCV-2120B	PRESSURE REGULATOR	INSTRUMENT AIR	BK-GCS-HY-120-PR-PI-0001 3B	6	12.5	6	-	—	—	—	—	—	BARG	
45	PCV-2205B	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	0.5	5	0.5	-	—	—	—	—	—	BARG	
46	PCV-2206B	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	2	5	2	-	—	—	—	—	—	BARG	
47	PCV-2201B	PRESSURE REGULATOR	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5B	6	10	6	-	—	—	—	—	—	BARG	
48	PSV-2132B	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9	62	62	-	—	—	—	—	—	BARG	
49	PSV-2133B	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9	62	62	-	—	—	—	—	—	BARG	
50	PSV-2122B	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 1st STAGE	BK-GCS-HY-120-PR-PI-0001 1B	18	22	22	-	—	—	—	—	—	BARG	
51	PSV-2123B	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 1st STAGE	BK-GCS-HY-120-PR-PI-0001 1B	18	22	22	-	—	—	—	—	—	BARG	
52	RV-2200B	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5B	5	10	7	-	—	—	—	—	—	BARG	
53	RV-2201B	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5B	5	10	7	-	—	—	—	—	—	BARG	
54	PSV-2203B	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	0.5	5	2.8	-	—	—	—	—	—	BARG	
55	PSV-2204B	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	2	5	2.8	-	—	—	—	—	—	BARG	

		Binak Oil Field Development Project Reciprocating Sour Gas Compressors													
		ALARM AND SET POINT LIST													
		Contract No:	Project	Package	Issuer	Facility	Dicipline	Doc	Sequence	Rev					
Contract No: 053-073-9184		BK	GCS	HY	120	IN	LI	0004	V03		شماره صفحه: 5 از 5				
Item No.	Tag Number	Description	Service 1	P&ID NUMBER			set point	Diff. Press. Nor Max	Alarm Action		Shut Down Action		Range	Eng. Units	Remark
					Operatin	Design			L	H	LL	HH			
1	PDT-2122C	DIFF PRESSURE TRANSMITTER	STRAINER FILTER SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1C	4.9	22	—	0.1 0.2	—	0.2	—	—	0-0.4	BARG	
2	PT-2123C	PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	4.9	22	—	-	4.4	6	—	—	0-10	BARG	
3	TT-2191C	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	129	180	—	-	—	140	—	—	0-200	°C	
4	TS-2191C	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	129	180	150	-	—	—	—	150	130-190	°C	
5	PT-2124C	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	18	22	—	-	—	21.5	—	—	0-25	BARG	
6	PDT-2132C	DIFF PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	17.1	22	—	0.1 0.2	—	0.2	—	—	0-0.4	BARG	
7	PT-2132C	PRESSURE TRANSMITTER	ON SUCTION LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	17.1	24.5	—	-	14.7	—	—	—	0-25	BARG	
8	TT-2194C	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	148	180	—	-	—	160	—	—	0-200	°C	
9	TS-2194C	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	148	180	170	-	—	—	—	170	130-190	°C	
10	PT-2133C	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9	62	—	-	—	56	—	—	0-65	BARG	
11	PS-2133C	PRESSURE SWITCH	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9	62	57	-	—	—	—	57	16-100	BARG	
12	PT-2200C	PRESSURE TRANSMITTER	ON LUBRICATOR	BK-GCS-HY-120-PR-PI-0001 3C	6	10	—	-	4	—	—	—	0-10	BARG	
13	LT-2200C	LEVEL TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3C	107.5	258	—	-	32.25	—	—	—	0-258	mmH2O	start permission :37.5
14	TT-2203C	TEMPERATURE TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3C	70	85	—	-	15	35	—	—	0-120	°C	Stop/Start Heater Crank Case. AOP start permission:15 °C AOP start / Stop and Low Alarm Compressor start permission: 5 barg
15	PT-2204C	PRESSURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3C	5	10	—	-	1.5	5	—	—	0-10	BARG	Compressor start permission: 5 barg
16	PS-2204C	PRESSURE SWITCH	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3C	5	10	1.2	-	—	—	1.2	—	0.8-6	BARG	
17	TT-2204C	TEMPERATURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3C	60	85	—	-	5	65	—	—	0-120	°C	Compressor start permission :35 °C
18	PDT-2204C	DIFF PRESSURE TRANSMITTER	LUBE OIL FILTER	BK-GCS-HY-120-PR-PI-0001 3C	5	10	—	0.1 0.5	—	0.7	—	—	0-1	BARG	
19	PT-2210C	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	2	5	—	-	1.2	—	—	—	0-3	BARG	Compressor start permission: 1.2 barg
20	PT-2211C	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	0.5	5	—	-	0.2	—	—	—	0-3	BARG	Compressor start permission: 0.2 barg
21	PT-2212C	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1	5	—	-	—	4	—	—	0-2	BARG	
22	LT-2213C	LEVEL TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5C	0	1250	—	-	400	—	300	—	0-1250	mmH2O	LL: Main & Aux water pumps stop
23	TT-2213C	TEMPERATURE TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5C	70	85	—	-	60	63	—	—	0-120	°C	Stop/Start Heater Water Reservoir
24	PS-2220C	PRESSURE SWITCH	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5C	3	10	2	-	—	—	2	—	0.8-6	BARG	
25	PT-2220C	PRESSURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5C	3	10	—	-	2.5	5	—	—	0-6	BARG	Stop/Start Aux Water Pump. Compressor start permission: 3 barg
26	TT-2221C	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5C	63	85	—	-	60	66	—	70	0-120	°C	Compressor start permission: 63 °C
27	TT-2231C	TEMPERATURE TRANSMITTER	WATER RESERVOIR HEATER	BK-GCS-HY-120-PR-PI-0001 5C	70	85	—	-	—	95	-	105	-10 -120	°C	Stop Heater Water Reservoir
28	VT-2200C	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7C	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
29	VT-2201C	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7C	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
30	VT-2202C	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7C	0	25.4	—	-	—	8	—	12	25.4	mm/SEC, RMS	
31	ZT-2200C	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7C	0.5	5	—	-	—	0.6	—	—	0.5-5	mm	
32	ZT-2201C	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7C	0.5	5	—	-	—	0.69	—	—	0.5-5	mm	
33	TT-2214C	TEMPERATURE TRANSMITTER	MOTOR NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	N/A	N/A	—	-	—	90	—	95	0-200	°C	
34	TT-2215C	TEMPERATURE TRANSMITTER	MOTOR DE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	N/A	N/A	—	-	—	90	—	95	0-200	°C	
35	TT-2216C	TEMPERATURE TRANSMITTER	COMP DE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0	180	—	-	—	95	-	105	0-200	°C	
36	TT-2217C	TEMPERATURE TRANSMITTER	Right Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7C	0	180	—	-	—	120	-	130	0-200	°C	
37	TT-2218C	TEMPERATURE TRANSMITTER	COMP NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0	180	—	-	—	95	-	105	0-200	°C	
38	TT-2219C	TEMPERATURE TRANSMITTER	LEFT Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7C	0	180	—	-	—	120	-	130	0-200	°C	
39	TT-2220C	TEMPERATURE TRANSMITTER	COMP MID BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0	180	—	-	—	95	-	105	0-200	°C	
40	TE-2222C	TEMPERATURE ELEMET	MOTOR WINDING R	BK-GCS-HY-120-PR-PI-0001 7C	N/A	N/A	—	-	—	135	-	145	0-200	°C	
41	TE-2225C	TEMPERATURE ELEMET	MOTOR WINDING S	BK-GCS-HY-120-PR-PI-0001 7C	N/A	N/A	—	-	—	135	-	145	0-200	°C	
42	TE-2228C	TEMPERATURE ELEMET	MOTOR WINDING T	BK-GCS-HY-120-PR-PI-0001 7C	N/A	N/A	—	-	—	135	-	145	0-200	°C	
43	XT-2200C	Rotation Speed	Rotation Speed	BK-GCS-HY-120-PR-PI-0001 7C	N/A	N/A	—	-	—	430	-	-	0-1000	RPM	
44	PCV-2120C	PRESSURE REGULATOR	INSTRUMENT AIR	BK-GCS-HY-120-PR-PI-0001 3C	6	12.5	6	-	—	—	—	—	—	BARG	
45	PCV-2205C	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	0.5	5	0.5	-	—	—	—	—	—	BARG	
46	PCV-2206C	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	2	5	2	-	—	—	—	—	—	BARG	
47	PCV-2201C	PRESSURE REGULATOR	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5C	6	10	6	-	—	—	—	—	—	BARG	
48	PSV-2132C	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9	62	62	-	—	—	—	—	—	BARG	
49	PSV-2133C	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9	62	62	-	—	—	—	—	—	BARG	
50	PSV-2122C	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 1st STAGE	BK-GCS-HY-120-PR-PI-0001 1C	18	22	22	-	—	—	—	—	—	BARG	
51	PSV-2123C	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 1st STAGE	BK-GCS-HY-120-PR-PI-0001 1C	18	22	22	-	—	—	—	—	—	BARG	
52	RV-2200C	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5C	5	10	7	-	—	—	—	—	—	BARG	
53	RV-2201C	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5C	5	10	7	-	—	—	—	—	—	BARG	
54	PSV-2203C	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	0.5	5	2.8	-	—	—	—	—	—	BARG	
55	PSV-2204C	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	2	5	2.8	-	—	—	—	—	—	BARG	