

 NISOC	Binak Oil Field Development Project Reciprocating Sour Gas Compressors								
	ALARM & SET POINT LIST								
Contract No:	Project	Package	Issuer	Facility	Dicipline	Doc.	Sequence	Rev	شماره صفحه: 1 از 5
053-073-9184	BK	GCS	HY	120	IN	LI	0004	V01	

طرح نگهداشت و افزایش تولید ۲۷ مخزن

ALARM & SET POINT LIST

نگهداشت و افزایش تولید میدان نفتی بینک

V01	MAY.2024	IFR	HAVAYAR	M.Fakharian	S.Faramarzpour	
V00	FEB.2023	IFR	HAVAYAR	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

CLIENT Doc. Number:

statu:

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

 NISOC	Binak Oil Field Development Project Reciprocating Sour Gas Compressors								 HAVAYAR INDUSTRIAL GROUP
	ALARM &SET POINT LIST								
Contract No: 053-073-9184	Project	Package	Issuer	Facility	Dicipline	Doc.	Sequence	Rev	شماره صفحه: 2 از 5
	BK	GCS	HY	120	IN	LI	0004	V01	

REVISION RECORD SHEET

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 Contract No:		Project Package		Oil Field Development Project Locating Sour Gas Compressors									
				ALARM & SET POINT LIST									
Contract No: 053-073-9184		BK	GCS	Doc.	Sequence								
Item No.		Tag Number		Description		P&ID NUMBER		Operating/D					
1	PDT-2122A	DIFF PRESSURE TRANSMITTER		STRAINER FILTER SUCTION COMP		BK-GCS-HY-120-PR-PI-0001 1A		0.1 / 0					
2	PT-2123A	PRESSURE TRANSMITTER		1st SUCTION COMP		BK-GCS-HY-120-PR-PI-0001 1A		4.9 / 24					
3	TT-2191A	TEMPERATURE TRANSMITTER		ON DISCHARGE SNUBBER 1ST STAGE		BK-GCS-HY-120-PR-PI-0001 1A		37/180					
4	TS-2191A	TEMPERATURE SWITCH		ON DISCHARGE SNUBBER 1ST STAGE		BK-GCS-HY-120-PR-PI-0001 1A		37/180					
5	PT-2124A	PRESSURE TRANSMITTER		ON DISCHARGE LINE SNUBBER 1ST STAGE		BK-GCS-HY-120-PR-PI-0001 1A		18 / 24					
6	PDT-2132A	DIFF PRESSURE TRANSMITTER		ON DISCHARGE LINE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		0.1 / 0.2					
7	PT-2132A	PRESSURE TRANSMITTER		ON DISCHARGE LINE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		17.1 / 24.5					
8	TT-2194A	TEMPERATURE TRANSMITTER		ON DISCHARGE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		148/180					
9	TS-2194A	TEMPERATURE SWITCH		ON DISCHARGE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		37/180					
10	PT-2133A	PRESSURE TRANSMITTER		ON DISCHARGE LINE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		54.9 / 62					
11	PS-2133A	PRESSURE SWITCH		ON DISCHARGE LINE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		54.9/62					
12	PT-2200A	PRESSURE TRANSMITTER		ON LUBRICATOR		BK-GCS-HY-120-PR-PI-0001 3A		4/10					
13	LT-2200A	LEVEL TRANSMITTER		ON CRANK CASE		BK-GCS-HY-120-PR-PI-0001 3A		0/425					
14	TT-2203A	TEMPERATURE TRANSMITTER		ON CRANK CASE		BK-GCS-HY-120-PR-PI-0001 3A		70/85					
15	PT-2204A	PRESSURE TRANSMITTER		ON LUBE OIL HEADER		BK-GCS-HY-120-PR-PI-0001 3A		6/10					
16	PS-2204A	PRESSURE SWITCH		ON LUBE OIL HEADER		BK-GCS-HY-120-PR-PI-0001 3A		5/10					
17	TT-2204A	TEMPERATURE TRANSMITTER		ON LUBE OIL HEADER		BK-GCS-HY-120-PR-PI-0001 3A		60/85					
18	PDT-2204A	DIFF PRESSURE TRANSMITTER		LUBE OIL FILTER		BK-GCS-HY-120-PR-PI-0001 3A		0.1 / 0.5					
19	PT-2210A	PRESSURE TRANSMITTER		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4A		2.2 / 5					
20	PT-2211A	PRESSURE TRANSMITTER		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4A		1 / 5					
21	PT-2212A	PRESSURE TRANSMITTER		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4C		1 / 5					
22	LT-2213A	LEVEL TRANSMITTER		WATER RESERVOIR		BK-GCS-HY-120-PR-PI-0001 5A		0-1350					
23	TT-2213A	TEMPERATURE TRANSMITTER		WATER RESERVOIR		BK-GCS-HY-120-PR-PI-0001 5A		65/85					
24	PS-2220A	PRESSURE SWITCH		WATER RESERVOIR		BK-GCS-HY-120-PR-PI-0001 5A		3/10					
25	PT-2220A	PRESSURE TRANSMITTER		WATER TO CYLINDERS		BK-GCS-HY-120-PR-PI-0001 5A		3/10					
26	TT-2221A	TEMPERATURE TRANSMITTER		WATER TO CYLINDERS		BK-GCS-HY-120-PR-PI-0001 5A		58/85					
27	VT-2201A	VIBRATION TRANSMITTER		FRAME VIBRATION		BK-GCS-HY-120-PR-PI-0001 7A		0/25.4					
28	VT-2201A	VIBRATION TRANSMITTER		FRAME VIBRATION		BK-GCS-HY-120-PR-PI-0001 7A		0/25.4					
29	VT-2202A	VIBRATION TRANSMITTER		FRAME VIBRATION		BK-GCS-HY-120-PR-PI-0001 7A		0/25.4					
30	ZT-2200A	ROD DROP TRANSMITTER		LEFT Cylinder Rod Drop Detector		BK-GCS-HY-120-PR-PI-0001 7A		0/4					
31	ZT-2201A	ROD DROP TRANSMITTER		Right Cylinder Rod Drop Detector		BK-GCS-HY-120-PR-PI-0001 7A		0/4					
32	TT-2214A	TEMPERATURE TRANSMITTER		MOTOR NDE BEARING		BK-GCS-HY-120-PR-PI-0001 7A		0/95					
33	TT-2215A	TEMPERATURE TRANSMITTER		MOTOR DE BEARING		BK-GCS-HY-120-PR-PI-0001 7A		0/95					
34	TT-2216A	TEMPERATURE TRANSMITTER		COMP DE BEARING		BK-GCS-HY-120-PR-PI-0001 7A		0/105					
35	TT-2217A	TEMPERATURE TRANSMITTER		Right Cylinder PACKING		BK-GCS-HY-120-PR-PI-0001 7A		0/130					
36	TT-2218A	TEMPERATURE TRANSMITTER		COMP NDE BEARING		BK-GCS-HY-120-PR-PI-0001 7A		0/105					
37	TT-2219A	TEMPERATURE TRANSMITTER		LEFT Cylinder PACKING		BK-GCS-HY-120-PR-PI-0001 7A		0/130					
38	TT-2220A	TEMPERATURE TRANSMITTER		COMP MID BEARING		BK-GCS-HY-120-PR-PI-0001 7A		0/105					
39	TE-2222A	TEMPERATURE ELEMET		MOTOR WINDING R		BK-GCS-HY-120-PR-PI-0001 7A		0/145					
40	TE-2225A	TEMPERATURE ELEMET		MOTOR WINDING S		BK-GCS-HY-120-PR-PI-0001 7A		0/145					
41	TE-2228A	TEMPERATURE ELEMET		MOTOR WINDING T		BK-GCS-HY-120-PR-PI-0001 7A		0/145					
42	XT-2200A	Rotation Speed		Rotation Speed		BK-GCS-HY-120-PR-PI-0001 7A		0/500					
43	PCV-2120A	PRESSURE REGULATOR		INSTRUMENT AIR		BK-GCS-HY-120-PR-PI-0001 3A		6 / 12.5					
44	PCV-2205A	PRESSURE REGULATOR		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4A		2.2 / 5					
45	PCV-2206A	PRESSURE REGULATOR		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4A		2.2 / 5					
46	PCV-2201A	PRESSURE REGULATOR		ON LUBE OIL		BK-GCS-HY-120-PR-PI-0001 5A		6/10					
47	PSV-2132A	SAFETY VALVE		ON DISCHARGE LINE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		54.9 / 62					
48	PSV-2133A	SAFETY VALVE		ON DISCHARGE LINE SNUBBER 2ND STAGE		BK-GCS-HY-120-PR-PI-0001 1A		54.9 / 62					
49	RV-2200A	RELIEF VALVE		ON LUBE OIL		BK-GCS-HY-120-PR-PI-0001 5A		6/10					
50	RV-2201A	RELIEF VALVE		ON LUBE OIL		BK-GCS-HY-120-PR-PI-0001 5A		6/10					
51	PSV-2203A	SAFETY VALVE		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4A		1 / 5					
52	PSV-2204A	SAFETY VALVE		N2 TO CYLINDER PACKING INLET		BK-GCS-HY-120-PR-PI-0001 4A		1 / 5					

services are not correct . services' Column to be recheck and modify.
HY Reply:Will be modified.

There are discrepancies between this document and others like MRT. for example these values are in conflict with MRT report. Data to be recheck and modify.

HY Reply:Since MRT has been done with shop oil console (not the job), the measured data for oil can not be considered as reference.

it isn't correct
HY Reply:LT unit is mmH2O. But calibration will be done with oil density.

recheck?
HY Reply:Will be modified.

LL: Main & Aux water pumps stop
Stop/Start Heater Water Reservoir
start permission :60

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		ALARM & 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	V01				شماره صفحه: 4 از 5	
Item No.	Tag Number	Description	Service 1	PAID NUMBER	set point	Alarm Action		Shut Down Action		Range	Eng. Units	Remark	
						L	H	LL	HH				
1	PDT-2122B	DIFF PRESSURE TRANSMITTER	STRAINER FILTER SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1B	0.1 / 0.2	—	—	0/2	—	0-0.4	BARG		
2	PT-2123B	PRESSURE TRANSMITTER	1st SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1B	4.9 / 24.5	—	4	6	—	0-25	BARG		
3	TT-2191B	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	37/180	—	—	140	—	0-200	°C		
4	TS-2191B	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	37/180	150	—	—	150	0-200	°C		
5	PT-2124B	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1B	18 / 24.5	—	—	19	—	0-25	BARG		
6	PDT-2132B	DIFF PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	0.1 / 0.2	—	—	0/2	—	0-0.4	BARG		
7	PT-2132B	PRESSURE TRANSMITTER	ON DISCHARGE 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	37/180	170	—	—	170	0-200	°C		
10	PT-2133B	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9 / 62	—	—	56	—	10-100	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	10-100	BARG		
12	PT-2200B	PRESSURE TRANSMITTER	ON LUBRICATOR	BK-GCS-HY-120-PR-PI-0001 3B	4/10	—	4	—	—	0-10	BARG		
13	LT-2200B	LEVEL TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3B	0/425	—	32/25	—	—	0-425	mmH2O	start permission :37.5	
14	TT-2203B	TEMPERATURE TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3B	70/85	—	15	35	—	0-120	°C	Stop/Start Heater Crank Case start permission :15	
15	PT-2204B	PRESSURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3B	6/10	—	1/5	5	—	0-10	BARG	start permission :5	
16	PS-2204B	PRESSURE SWITCH	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3B	5/10	1/2	—	—	1/2	0-10	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	start permission :36	
18	PDT-2204B	DIFF PRESSURE TRANSMITTER	LUBE OIL FILTER	BK-GCS-HY-120-PR-PI-0001 3B	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	2.2 / 5	—	1/2	—	—	0-6	BARG	start permission :2.2	
20	PT-2211B	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	1 / 5	—	0/2	—	—	0-6	BARG	start permission :2	
21	PT-2212B	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1 / 5	—	—	4	HAVAYAR	0-6	BARG		
22	LT-2213B	LEVEL TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5B	0-1350	—	500	—	250	0-1350	mmH2O	LL: Main & Aux water pumps stop	
23	TT-2213B	TEMPERATURE TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5B	65/85	—	60	63	HAVAYAR	0-120	°C	Stop/Start Heater Water Reservor	
24	PS-2220B	PRESSURE SWITCH	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5B	3/10	2	—	—	2	0-10	BARG		
25	PT-2220B	PRESSURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5B	3/10	—	2/5	3	—	0-10	BARG	Stop/Start Aux Water Pump start permission :3	
26	TT-2221B	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5B	58/85	—	—	66	—	0-120	°C	start permission :60	
		VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7B	0/25.4	—	—	8	—	25/4	mm/SEC, RMS		
28	VT-2201B	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7B	0/25.4	—	—	8	—	25/4	mm/SEC, RMS		
29	VT-2202B	VIBERATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7B	0/25.4	—	—	8	—	25/4	mm/SEC, RMS		
30	ZT-2200B	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7B	0/4	—	—	0/6	—	4	mm		
31	ZT-2201B	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7B	0/4	—	—	0/69	—	4	mm		
32	TT-2214B	TEMPERATURE TRANSMITTER	MOTOR NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0/95	—	—	90	—	95	0-200	°C	
33	TT-2215B	TEMPERATURE TRANSMITTER	MOTOR DE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0/95	—	—	90	—	95	0-200	°C	
34	TT-2216B	TEMPERATURE TRANSMITTER	COMP DE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0/105	—	—	95	-	105	0-200	°C	
35	TT-2217B	TEMPERATURE TRANSMITTER	Right Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7B	0/130	—	—	120	-	130	0-200	°C	
36	TT-2218B	TEMPERATURE TRANSMITTER	COMP NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0/105	—	—	95	-	105	0-200	°C	
37	TT-2219B	TEMPERATURE TRANSMITTER	LEFT Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7B	0/130	—	—	120	-	130	0-200	°C	
38	TT-2220B	TEMPERATURE TRANSMITTER	COMP MID BEARING	BK-GCS-HY-120-PR-PI-0001 7B	0/105	—	—	95	-	105	0-200	°C	
39	TE-2222B	TEMPERATURE ELEMET	MOTOR WINDING R	BK-GCS-HY-120-PR-PI-0001 7B	0/145	—	—	135	-	145	0-200	°C	
40	TE-2225B	TEMPERATURE ELEMET	MOTOR WINDING S	BK-GCS-HY-120-PR-PI-0001 7B	0/145	—	—	135	-	145	0-200	°C	
41	TE-2228B	TEMPERATURE ELEMET	MOTOR WINDING T	BK-GCS-HY-120-PR-PI-0001 7B	0/145	—	—	135	-	145	0-200	°C	
42	XT-2200B	Rotation Speed	Rotation Speed	BK-GCS-HY-120-PR-PI-0001 7B	0/500	—	—	430	-	-	0-500	RPM	
43	PCV-2120B	PRESSURE REGULATOR	INSTRUMENT AIR	BK-GCS-HY-120-PR-PI-0001 3B	6 / 12.5	6	—	—	—	—	BARG		
44	PCV-2205B	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	2.2 / 5	0/5	—	—	—	—	BARG		
45	PCV-2206B	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	2.2 / 5	2	—	—	—	—	BARG		
46	PCV-2201B	PRESSURE REGULATOR	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5B	6/10	6	—	—	—	—	BARG		
47	PSV-2132B	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9 / 62	62	—	—	—	—	BARG		
48	PSV-2133B	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1B	54.9 / 62	62	—	—	—	—	BARG		
49	RV-2200B	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5B	6/10	7	—	—	—	—	BARG		
50	RV-2201B	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5B	6/10	7	—	—	—	—	BARG		
51	PSV-2203B	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	1 / 5	2/8	—	—	—	—	BARG		
52	PSV-2204B	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4B	1 / 5	2/8	—	—	—	—	BARG		

 NISOC Contract No:		Binak Oil Field Development Project Reciprocating Sour Gas Compressors										 HAVAYAR INDUSTRIAL GROUP		
		ALARM & SET POINT LIST												
		Project	Package	Issuer	Facility	Dicipline	Doc.	Sequence	Rev					
Contract No: 053-073-9184		BK	GCS	HY	120	IN	LI	0004	V01			شماره صفحه 5 از 5		
Item No.	Tag Number	Description	Service 1	P&ID NUMBER		set point	Alarm Action		Shut Down Action		Range	Eng. Units	Remark	
					Operating/Design		L	H	LL	HH				
1	PDT-2122C	DIFF PRESSURE TRANSMITTER	STRAINER FILTER SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1C	0.1 / 0.2	—	—	0/2	—	—	0-0.4	BARG		
2	PT-2123C	PRESSURE TRANSMITTER	1st SUCTION COMP	BK-GCS-HY-120-PR-PI-0001 1C	4.9 / 24.5	—	4	6	—	—	0-25	BARG		
3	TT-2191C	TEMPERATURE TRANSMITTER	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	37/180	—	—	140	—	—	0-200	°C		
4	TS-2191C	TEMPERATURE SWITCH	ON DISCHARGE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	37/180	150	—	—	—	150	0-200	°C		
5	PT-2124C	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 1ST STAGE	BK-GCS-HY-120-PR-PI-0001 1C	18 / 24.5	—	—	19	—	—	0-25	BARG		
6	PDT-2132C	DIFF PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	0.1 / 0.2	—	—	0/2	—	—	0-0.4	BARG		
7	PT-2132C	PRESSURE TRANSMITTER	ON DISCHARGE 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	37/180	170	—	—	—	170	0-200	°C		
10	PT-2133C	PRESSURE TRANSMITTER	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9 / 62	—	—	56	—	—	10-100	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	10-100	BARG		
12	PT-2200C	PRESSURE TRANSMITTER	ON LUBRICATOR	BK-GCS-HY-120-PR-PI-0001 3C	4/10	—	4	—	—	—	0-10	BARG		
13	LT-2200C	LEVEL TRANSMITTER	ON CRANK CASE	BK-GCS-HY-120-PR-PI-0001 3C	0/425	—	32/25	—	—	—	0-425	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	
15	PT-2204C	PRESSURE TRANSMITTER	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3C	6/10	—	1/5	5	—	—	0-10	BARG	start permission :5	
16	PS-2204C	PRESSURE SWITCH	ON LUBE OIL HEADER	BK-GCS-HY-120-PR-PI-0001 3C	5/10	1/2	—	—	1/2	—	0-10	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	start permission :36	
18	PDT-2204C	DIFF PRESSURE TRANSMITTER	LUBE OIL FILTER	BK-GCS-HY-120-PR-PI-0001 3C	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	2.2 / 5	—	1/2	—	—	—	0-6	BARG	start permission :2.2	
20	PT-2211C	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1 / 5	—	0/2	—	—	—	0-6	BARG	start permission :2	
21	PT-2212C	PRESSURE TRANSMITTER	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1 / 5	—	—	4	HAVAYAR	—	0-6	BARG		
22	LT-2213C	LEVEL TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5C	0-1350	—	500	—	250	—	0-1350	mmH2O	LL: Main & Aux water pumps stop	
23	TT-2213C	TEMPERATURE TRANSMITTER	WATER RESERVOIR	BK-GCS-HY-120-PR-PI-0001 5C	65/85	—	60	63	HAVAYAR	—	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	—	0-10	BARG		
25	PT-2220C	PRESSURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5C	3/10	—	2/5	3	—	—	0-10	BARG	Stop/Start Aux Water Pump start permission :3	
26	TT-2221C	TEMPERATURE TRANSMITTER	WATER TO CYLINDERS	BK-GCS-HY-120-PR-PI-0001 5C	58/85	—	—	66	—	70	0-120	°C	start permission :60	
27		VIBRATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7C	0/25.4	—	—	8	—	12	25/4	mm/SEC, RMS		
28	VT-2201C	VIBRATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7C	0/25.4	—	—	8	—	12	25/4	mm/SEC, RMS		
29	VT-2202C	VIBRATION TRANSMITTER	FRAME VIBRATION	BK-GCS-HY-120-PR-PI-0001 7C	0/25.4	—	—	8	—	12	25/4	mm/SEC, RMS		
30	ZT-2200C	ROD DROP TRANSMITTER	LEFT Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7C	0/4	—	—	0/6	—	—	4	mm		
31	ZT-2201C	ROD DROP TRANSMITTER	Right Cylinder Rod Drop Detector	BK-GCS-HY-120-PR-PI-0001 7C	0/4	—	—	0/69	—	—	4	mm		
32	TT-2214C	TEMPERATURE TRANSMITTER	MOTOR NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0/95	—	—	90	—	95	0-200	°C		
33	TT-2215C	TEMPERATURE TRANSMITTER	MOTOR DE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0/95	—	—	90	—	95	0-200	°C		
34	TT-2216C	TEMPERATURE TRANSMITTER	COMP DE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0/105	—	—	95	-	105	0-200	°C		
35	TT-2217C	TEMPERATURE TRANSMITTER	Right Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7C	0/130	—	—	120	-	130	0-200	°C		
36	TT-2218C	TEMPERATURE TRANSMITTER	COMP NDE BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0/105	—	—	95	-	105	0-200	°C		
37	TT-2219C	TEMPERATURE TRANSMITTER	LEFT Cylinder PACKING	BK-GCS-HY-120-PR-PI-0001 7C	0/130	—	—	120	-	130	0-200	°C		
38	TT-2220C	TEMPERATURE TRANSMITTER	COMP MID BEARING	BK-GCS-HY-120-PR-PI-0001 7C	0/105	—	—	95	-	105	0-200	°C		
39	TE-2222C	TEMPERATURE ELEMET	MOTOR WINDING R	BK-GCS-HY-120-PR-PI-0001 7C	0/145	—	—	135	-	145	0-200	°C		
40	TE-2225C	TEMPERATURE ELEMET	MOTOR WINDING S	BK-GCS-HY-120-PR-PI-0001 7C	0/145	—	—	135	-	145	0-200	°C		
41	TE-2228C	TEMPERATURE ELEMET	MOTOR WINDING T	BK-GCS-HY-120-PR-PI-0001 7C	0/145	—	—	135	-	145	0-200	°C		
42	XT-2200C	Rotation Speed	Rotation Speed	BK-GCS-HY-120-PR-PI-0001 7C	0/500	—	—	430	-	-	0-500	RPM		
43	PCV-2120C	PRESSURE REGULATOR	INSTRUMENT AIR	BK-GCS-HY-120-PR-PI-0001 3C	6 / 12.5	6	—	—	—	—	—	BARG		
44	PCV-2205C	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	2.2 / 5	0/5	—	—	—	—	—	BARG		
45	PCV-2206C	PRESSURE REGULATOR	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	2.2 / 5	2	—	—	—	—	—	BARG		
46	PCV-2201C	PRESSURE REGULATOR	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5C	6/10	6	—	—	—	—	—	BARG		
47	PSV-2132C	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9 / 62	62	—	—	—	—	—	BARG		
48	PSV-2133C	SAFETY VALVE	ON DISCHARGE LINE SNUBBER 2ND STAGE	BK-GCS-HY-120-PR-PI-0001 1C	54.9 / 62	62	—	—	—	—	—	BARG		
49	RV-2200C	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5C	6/10	7	—	—	—	—	—	BARG		
50	RV-2201C	RELIFE VALVE	ON LUBE OIL	BK-GCS-HY-120-PR-PI-0001 5C	6/10	7	—	—	—	—	—	BARG		
51	PSV-2203C	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1 / 5	2/8	—	—	—	—	—	BARG		
52	PSV-2204C	SAFETY VALVE	N2 TO CYLINDER PACKING INLET	BK-GCS-HY-120-PR-PI-0001 4C	1 / 5	2/8	—	—	—	—	—	BARG		