

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-۰۰۱-BK-HD-GCS-CO)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده MF	تسهیلات 120	رشته IN	نوع مدرک DS	سریال 0006	نسخه V00	شماره صفحه: ۱ از ۲۶

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES

نگهداشت و افزایش تولید میدان نفتی بینک

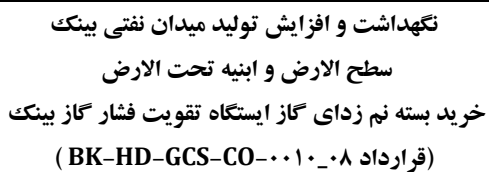
V00	Mar.2025	IFA	MFS	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
		CLIENT Doc. Number: -				

status:

IFA: Issued For Approval

IFI: Issued For Information

AFC: Approved For Construction



شماره پیمان:

• 03 - • 73 - 9184

شماره صفحه: ۲ از ۲۶

پروژه

سته کاری

مادر کنند

تسهيلات

رشته

ع مدرک

سریال

نسخه

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7	X					67					
8	X					68					
9	X					69					
10	X					70					
11	X					71					
12	X					72					
13	X					73					
14	X					74					
15	X					75					
16	X					76					
17	X					77					
18	X					78					
19	X					79					
20	X					80					
21	X					81					
22	X					82					
23	X					83					
24	X					84					
25	X					85					
26	X					86					
27						87					
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29						89					
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31						91					
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43						103					
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52						112					
53						113					
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59						119					
60						120					

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰ BK-HD-GCS-CO قرارداد)									
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES									
شماره پیمان:	پروژه	بسته فرای	مشارکتنده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۹ از ۴۳	
۰۵۴-۰۰۳-۰۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00		
GENERAL	1	Item Number	Tag Number	Quantity	1	D-PG-2101			1	
	2	Service	FROM C-100 TO E-300							
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003						
	4	Line No. / Equipment No.	Piping Class	GAS-111-0002-FN05-6"-PT FN05						
PROCESS CONDITIONS	5	Fluid	Phase	GAS		Vapor				
	6	Operating Pressure:	Normal	Maximum	Unit	53.8	54.9	barg		
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg		
	8	Operating Temperature:	Normal	Maximum	Unit	63.62	63.89	°C		
	9	Design Pressure	Unit			F.V. / 59				
	10	Design Temperature	Unit			5 / 95				
	11	Operating Viscosity	Unit			0.01418				
	12	Pulsation	-							
	13	Corrosive Service	YES							
	14	Toxic Service	-							
	15	NACE Requirement	YES							
	GAUGE	16	Pressure Element Type	Bourdon Tube						
		17	Range	Unit			0 ~ 100			
		18	Zero Adjustment	Yes						
		19	Mounting	Local						
20		Dial Size	Dial Color	150		White laminated with black numerals and markings				
21		Case Material	Window Material (Lens)	316 SS		Shatterproof				
22		Ring Construction	Ring Material	Screwed Ring		316 SS				
23		Pressure Element Material	316 SS (NACE)							
24		Socket Material	316 SS (NACE)							
25		Connection Size	Connection Location	1/2" NPT(M)		Bottom				
26		Movement Material	316 SS (NACE)							
27		Nominal Accuracy	+/- 0.5% of F.S							
28		Micrometer Pointer	Aluminium , Black							
29		Blow-Out Protection	Rubber Blow-out Protection on the Back							
30		Over range Protection	1.3 Full-Scale							
31		Ingress Protection	IP 65							
32		Manufacturer/Model	Will be finalized later							
DIAPHRAGM SEAL		33	Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type			
	34	Connection Material	Connection Rating	316 SS (NACE)		600#				
	35	Extended Length	VTA							
	36	Diaphragm Material	316 SS (NACE)							
	37	Bottom Housing Material	317 SS (NACE)							
	38	Fill Fluid	Silicone oil (VTC)							
	39	Capillary Length	3m(VTC)							
	40	Capillary Bleeder	YES/1/4" NPTF(VTC)							
	41	Capillary Material	316 SS (NACE)							
	42	Flushing Connection	1/4" NPTM(VTC)							
	43	Top Housing Material	316 SS (NACE)							
	44	Instrument Connection	1/2" NPTF(To Capillary)							
	45	Fill Connection	1/4" NPTF(VTC)							
	46	Manufacturer/Model	VTA							
	OPTIONS	47	Siphon	NA						
48		Snubber	Material	NA		NA				
49		Over Pressure Protector	Material	Setting	NA	NA		NA		
50		Oil Filled	Silicone oil (VTC)							
51		Pulsation Dampener	NA							
52		Solid Front	YES							
MANIFOLD		53	Valve Type	Model	NA		NA			
	54	Body Material	Trim Material	NA		NA				
	55	Process Connection	Instrument Connection	NA		NA				
	56	Vent/Drain size	Valve Rating	NA		NA				
	57	Packing Material	NA							
PURCHASE	58	Manufacturer	Will be finalized later							
	59	Model	Will be finalized later							
	60									

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۶ از ۴۰
۰۵۳ - - ۰۷۳ - ۰۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	2	D-PG-2102			1
	2	Service			DEHYDRATED GAS FROM E-300				
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			1/7		
	4	Line No. / Equipment No.	Piping Class	GAS-111-01791-FN05-6"-PT			FN05		
PROCESS CONDITIONS	5	Fluid	Phase	GAS		Vapor			
	6	Operating Pressure:	Normal	Maximum	Unit	53.1	53.1	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	65.95	66.87	°C	
	9	Design Pressure	Unit			F.V. / 59			
	10	Design Temperature	Unit			5 / 95			
	11	Operating Viscosity	Unit			0.0142			
	12	Pulsation				-			
	13	Corrosive Service				YES			
	14	Toxic Service				-			
	15	NACE Requirement				YES			
	GAUGE	16	Pressure Element Type				Bourdon Tube		
		17	Range	Unit			0 ~ 100		Barg
		18	Zero Adjustment				Yes		
		19	Mounting				Local		
20		Dial Size	Dial Color	150		White laminated with black numerals and markings			
21		Case Material	Window Material (Lens)	316 SS		Shatterproof			
22		Ring Construction	Ring Material	Screwed Ring		316 SS			
23		Pressure Element Material				316 SS (NACE)			
24		Socket Material				316 SS (NACE)			
25		Connection Size	Connection Location	1/2" NPT(M)		Bottom			
26		Movement Material				316 SS (NACE)			
27		Nominal Accuracy				+/- 0.5% of F.S			
28		Micrometer Pointer				Aluminium , Black			
29		Blow-Out Protection				Rubber Blow-out Protection on the Back			
30		Over range Protection				1.3 Full-Scale			
31		Ingress Protection				IP 65			
32		Manufacturer/Model				Will be finalized later			
DIAPHRAGM SEAL	33	Type	Process Connection	Lamped Diaphragm Seals(VTC)		2" Flanged type			
	34	Connection Material	Connection Rating	316 SS (NACE)		600#			
	35	Extended Length				VTA			
	36	Diaphragm Material				316 SS (NACE)			
	37	Bottom Housing Material				317 SS (NACE)			
	38	Fill Fluid				Silicone oil (VTC)			
	39	Capillary Length				3m(VTC)			
	40	Capillary Bleeder				YES/1/4" NPTF(VTC)			
	41	Capillary Material				316 SS (NACE)			
	42	Flushing Connection				1/4" NPTM(VTC)			
	43	Top Housing Material				316 SS (NACE)			
	44	Instrument Connection				1/2" NPTF(To Capillary)			
	45	Fill Connection				1/4" NPTF(VTC)			
	46	Manufacturer/Model				VTA			
	OPTIONS	47	Siphon				NA		
		48	Snubber	Material			NA		NA
49		Over Pressure Protector	Material	Setting	NA	NA	NA		
50		Oil Filled				Silicone oil (VTC)			
51		Pulsation Dampener				NA			
52		Solid Front				YES			
MANIFOLD		53	Valve Type	Model			NA		
	54	Body Material	Trim Material			NA			
	55	Process Connection	Instrument Connection			NA			
	56	Vent/Drain size	Valve Rating			NA			
	57	Packing Material				NA			
PURCHASE	58	Manufacturer				Will be finalized later			
	59	Model				Will be finalized later			
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و آبنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱۰-۰۰۰ BK-HD-GCS-CO قرارداد)									
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES									
شماره پیمان:	پروژه	بسته کاری	صادرکننده	شمهلات	رشته	نوع مترک	میرال	نمونه	شماره صفحه: ۵ از ۶	
۹۱۸۴ - ۰۲۳ - ۰۵۳	BK	GCS	MF	120	IN	DS	0006	V00		
GENERAL	1	Item Number	Tag Number	Quantity	3		D-PG-2103		1	
	2	Service	DEHYDRATED GAS FROM E-300							
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003					1/7	
	4	Line No. / Equipment No.	Piping Class	C100					NA	
PROCESS CONDITIONS	5	Fluid	Phase	GAS		V / L				
	6	Operating Pressure:	Normal	Maximum	Unit	53.8	54.9	barg		
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg		
	8	Operating Temperature:	Normal	Maximum	Unit	63.62	63.89	°C		
	9	Design Pressure				Unit	F.V. / 62	barg		
	10	Design Temperature				Unit	5 / 148	°C		
	11	Operating Viscosity				Unit	0.01418	cp		
	12	Pulsation				-				
	13	Corrosive Service				YES				
	14	Toxic Service				-				
	15	NACE Requirement				YES				
	GAUGE	16	Pressure Element Type				Bourdon Tube			
		17	Range	Unit			0 ~ 100		Barg	
		18	Zero Adjustment				Yes			
		19	Mounting				Local			
20		Dial Size	Dial Color	150		White laminated with black numerals and markings				
21		Case Material	Window Material (Lens)	316 SS		Shatterproof				
22		Ring Construction	Ring Material	Screwed Ring		316 SS				
23		Pressure Element Material				316 SS (NACE)				
24		Socket Material				316 SS (NACE)				
25		Connection Size	Connection Location	1/2" NPT(M)		Bottom				
26		Movement Material				316 SS (NACE)				
27		Nominal Accuracy				+/- 0.5% of F.S				
28		Micrometer Pointer				Aluminium , Black				
29		Blow-Out Protection				Rubber Blow-out Protection on the Back				
30		Over range Protection				1.3 Full-Scale				
31		Ingress Protection				IP 65				
32		Manufacturer/Model				Will be finalized later				
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type				
	34	Connection Material	Connection Rating	316 SS (NACE)		600#				
	35	Extended Length				VTA				
	36	Diaphragm Material				316 SS (NACE)				
	37	Bottom Housing Material				317 SS (NACE)				
	38	Fill Fluid				Silicone oil (VTC)				
	39	Capillary Length				3m(VTC)				
	40	Capillary Bleeder				YES/1/4" NPTF(VTC)				
	41	Capillary Material				316 SS (NACE)				
	42	Flushing Connection				1/4" NPTM(VTC)				
	43	Top Housing Material				316 SS (NACE)				
	44	Instrument Connection				1/2" NPTF(To Capillary)				
	45	Fill Connection				1/4" NPTF(VTC)				
	46	Manufacturer/Model				VTA				
	OPTIONS	47	Siphon				NA			
48		Snubber	Material			NA		NA		
49		Over Pressure Protector	Material	Setting	NA	NA	NA			
50		Oil Filled				Silicone oil (VTC)				
51		Pulsation Dampener				NA				
52		Solid Front				YES				
MANIFOLD		53	Valve Type	Model	NA		NA			
	54	Body Material	Trim Material	NA		NA				
	55	Process Connection	Instrument Connection	NA		NA				
	56	Vent/Drain size	Valve Rating	NA		NA				
	57	Packing Material				NA				
PURCHASE	58	Manufacturer				Will be finalized later				
	59	Model				Will be finalized later				
	60									

Note:

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2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

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4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سریال	نسخه	شماره صفحه: ۳۹ از ۶۰
۰۵۳ - - ۰۳۲ - ۹۱۸۵	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	4	D-PG-2105			1
	2	Service	LEAN GLYCOL FROM E-300 TO C-100						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			1/7		
	4	Line No. / Equipment No.	Piping Class	TEG-111-0001-FN04-1"-HI			FN04		
PROCESS CONDITIONS	5	Fluid	Phase	TEG		Liquid			
	6	Operating Pressure:	Normal	Maximum	Unit	54.9	65.9	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	68	82	°C	
	9	Design Pressure	Unit		F.V. / 62			barg	
	10	Design Temperature	Unit		145			°C	
	11	Operating Viscosity	Unit		7.924			cp	
	12	Pulsation	-						
	13	Corrosive Service	YES						
	14	Toxic Service	YES						
GAUGE	15	NACE Requirement	YES						
	16	Pressure Element Type	Bourdon Tube						
	17	Range	Unit		0 ~ 100			Barg	
	18	Zero Adjustment	Yes						
	19	Mounting	Local						
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material	316 SS (NACE)						
	24	Socket Material	316 SS (NACE)						
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material	316 SS (NACE)						
	27	Nominal Accuracy	+/- 0.5% of F.S						
	28	Micrometer Pointer	Aluminium , Black						
	29	Blow-Out Protection	Rubber Blow-out Protection on the Back						
	30	Over range Protection	1.3 Full-Scale						
	31	Ingress Protection	IP 65						
	32	Manufacturer/Model	Will be finalized later						
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type			
	34	Connection Material	Connection Rating	316 SS (NACE)		600#			
	35	Extended Length	VTA						
	36	Diaphragm Material	316 SS (NACE)						
	37	Bottom Housing Material	317 SS (NACE)						
	38	Fill Fluid	Silicone oil (VTC)						
	39	Capillary Length	3m(VTC)						
	40	Capillary Bleeder	YES/1/4" NPTF(VTC)						
	41	Capillary Material	316 SS (NACE)						
	42	Flushing Connection	1/4" NPTM(VTC)						
	43	Top Housing Material	316 SS (NACE)						
	44	Instrument Connection	1/2" NPTF(To Capillary)						
	45	Fill Connection	1/4" NPTF(VTC)						
	46	Manufacturer/Model	VTA						
OPTIONS	47	Siphon	NA						
	48	Snubber	Material	NA		NA			
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled	Silicone oil (VTC)						
	51	Pulsation Dampener	NA						
	52	Solid Front	YES						
MANIFOLD	53	Valve Type	Model	NA		NA			
	54	Body Material	Trim Material	NA		NA			
	55	Process Connection	Instrument Connection	NA		NA			
	56	Vent/Drain size	Valve Rating	NA		NA			
	57	Packing Material	NA						
PURCHASE	58	Manufacturer	Will be finalized later						
	59	Model	Will be finalized later						
	60								

Note:

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	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳۶ از ۴۲
۰۵۳ - - ۰۷۳ - ۹۱۸۶	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	5		D-PG-2106		1
	2	Service	FROM E-100 TO V-120						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		2/7			
	4	Line No. / Equipment No.	Piping Class	TEG-111-0007-AN07-1"-HI		AN07			
PROCESS CONDITIONS	5	Fluid	Phase	TEG		V / L			
	6	Operating Pressure:	Normal	Maximum	Unit	4.5	4.5	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	68	68	°C	
	9	Design Pressure	F.V. / 8.5		Unit	barg			
	10	Design Temperature	5 / 100		Unit	°C			
	11	Operating Viscosity	0.01269 (vapor) and 5.331 (Liquid)		Unit	cp			
	12	Pulsation	-						
	13	Corrosive Service	YES						
	14	Toxic Service	-						
GAUGE	15	NACE Requirement	YES						
	16	Pressure Element Type	Bourdon Tube						
	17	Range	Unit		0 ~ 10		Barg		
	18	Zero Adjustment	Yes						
	19	Mounting	Local						
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material	316 SS (NACE)						
	24	Socket Material	316 SS (NACE)						
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material	316 SS (NACE)						
	27	Nominal Accuracy	+/- 0.5% of F.S						
	28	Micrometer Pointer	Aluminium , Black						
	29	Blow-Out Protection	Rubber Blow-out Protection on the Back						
	30	Over range Protection	1.3 Full-Scale						
	31	Ingress Protection	IP 65						
	DIAPHRAGM SEAL	32	Manufacturer/Model	Will be finalized later					
33		Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type			
34		Connection Material	Connection Rating	316 SS (NACE)		600#			
35		Extended Length	VTA						
36		Diaphragm Material	316 SS (NACE)						
37		Bottom Housing Material	317 SS (NACE)						
38		Fill Fluid	Silicone oil (VTC)						
39		Capillary Length	3m(VTC)						
40		Capillary Bleeder	YES/1/4" NPTF(VTC)						
41		Capillary Material	316 SS (NACE)						
42		Flushing Connection	1/4" NPTM(VTC)						
43		Top Housing Material	316 SS (NACE)						
44		Instrument Connection	1/2" NPTF(To Capillary)						
OPTIONS		45	Fill Connection	1/4" NPTF(VTC)					
	46	Manufacturer/Model	VTA						
	47	Siphon	NA						
	48	Snubber	Material	NA		NA			
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled	Silicone oil (VTC)						
MANIFOLD	51	Pulsation Dampener	NA						
	52	Solid Front	YES						
	53	Valve Type	Model	NA		NA			
	54	Body Material	Trim Material	NA		NA			
	55	Process Connection	Instrument Connection	NA		NA			
PURCHASE	56	Vent/Drain size	Valve Rating	NA		NA			
	57	Packing Material	NA						
	58	Manufacturer	Will be finalized later						
	59	Model	Will be finalized later						
	60								

Note:

- 1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .
- 2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard
- 3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.
- 4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	هسابرکننده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۳ از ۸
۰۵۴ - ۰۰۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	6	D-PG-2107			1
	2	Service				FROM C-100 TO E-100			
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			4/7		
	4	Line No. / Equipment No.	Piping Class	TEG-111-0001-AN07-1"-HI			AN07		
PROCESS CONDITIONS	5	Fluid	Phase	TEG			V / L		
	6	Operating Pressure:	Normal	Maximum	Unit	4.5	4.5	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	62.35	62.96	°C	
	9	Design Pressure	Unit			F.V. / 8.5			
	10	Design Temperature	Unit			5 / 100			
	11	Operating Viscosity	Unit			0.01269 (vapor) and 5.331 (Liquid)			
	12	Pulsation				-			
	13	Corrosive Service				YES			
	14	Toxic Service				-			
15	NACE Requirement				YES				
GAUGE	16	Pressure Element Type	Bourdon Tube						
	17	Range	Unit			0 ~ 10			
	18	Zero Adjustment				Yes			
	19	Mounting				Local			
	20	Dial Size	Dial Color	150			White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)	316 SS			Shatterproof		
	22	Ring Construction	Ring Material	Screwed Ring			316 SS		
	23	Pressure Element Material				316 SS (NACE)			
	24	Socket Material				316 SS (NACE)			
	25	Connection Size	Connection Location	1/2" NPT(M)			Bottom		
	26	Movement Material				316 SS (NACE)			
	27	Nominal Accuracy				+/- 0.5% of F.S			
	28	Micrometer Pointer				Aluminium , Black			
	29	Blow-Out Protection				Rubber Blow-out Protection on the Back			
	30	Over range Protection				1.3 Full-Scale			
	31	Ingress Protection				IP 65			
	32	Model				Will be finalized later			
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)			2" Flanged type		
	34	Connection Material	Connection Rating	316 SS (NACE)			600#		
	35	Extended Length				VTA			
	36	Diaphragm Material				316 SS (NACE)			
	37	Bottom Housing Material				317 SS (NACE)			
	38	Fill Fluid				Silicone oil (VTC)			
	39	Capillary Length				3m(VTC)			
	40	Capillary Bleeder				YES/1/4" NPTF(VTC)			
	41	Capillary Material				316 SS (NACE)			
	42	Flushing Connection				1/4" NPTM(VTC)			
	43	Top Housing Material				316 SS (NACE)			
	44	Instrument Connection				1/2" NPTF(To Capillary)			
	45	Fill Connection				1/4" NPTF(VTC)			
	46	Manufacturer/Model				VTA			
OPTIONS	47	Siphon				NA			
	48	Snubber	Material				NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled				Silicone oil (VTC)			
	51	Pulsation Dampener				NA			
	52	Solid Front				YES			
MANIFOLD	53	Valve Type	Model	NA			NA		
	54	Body Material	Trim Material	NA			NA		
	55	Process Connection	Instrument Connection	NA			NA		
	56	Vent/Drain size	Valve Rating	NA			NA		
	57	Packing Material				NA			
PURCHASE	58	Manufacturer				Will be finalized later			
	59	Model				Will be finalized later			
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و آبنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سریال	نسخه	شماره صفحه: ۱۹ از ۲۶
۰۵۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	7		D-PG-2108		1
	2	Service	R-100						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003					4/7
	4	Line No. / Equipment No.	Piping Class	R100					NA
PROCESS CONDITIONS	5	Fluid	Phase	TEG		V / L			
	6	Operating Pressure:	Normal	Maximum	Unit	0.3	0.6	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	140	204	°C	
	9	Design Pressure			Unit	F.V. / 4.1		barg	
	10	Design Temperature			Unit	5 / 234		°C	
	11	Operating Viscosity			Unit	0.01092		cp	
	12	Pulsation							
	13	Corrosive Service	YES						
	14	Toxic Service	-						
GAUGE	15	NACE Requirement	YES						
	16	Pressure Element Type	Diaphragm						
	17	Range			Unit	0 ~ 1		Barg	
	18	Zero Adjustment	Yes						
	19	Mounting	Local						
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material	316 SS (NACE)						
	24	Socket Material	316 SS (NACE)						
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material	316 SS (NACE)						
	27	Nominal Accuracy	+/- 0.5% of F.S						
	28	Micrometer Pointer	Aluminium , Black						
	29	Blow-Out Protection	Rubber Blow-out Protection on the Back						
	30	Over range Protection	1.3 Full-Scale						
	31	Ingress Protection	IP 65						
	32	Model	Will be finalized later						
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type			
	34	Connection Material	Connection Rating	316 SS (NACE)		600#			
	35	Extended Length	VTA						
	36	Diaphragm Material	316 SS (NACE)						
	37	Bottom Housing Material	317 SS (NACE)						
	38	Fill Fluid	Silicone oil (VTC)						
	39	Capillary Length	3m(VTC)						
	40	Capillary Bleeder	YES/1/4" NPTF(VTC)						
	41	Capillary Material	316 SS (NACE)						
	42	Flushing Connection	1/4" NPTM(VTC)						
	43	Top Housing Material	316 SS (NACE)						
	44	Instrument Connection	1/2" NPTF(To Capillary)						
	45	Fill Connection	1/4" NPTF(VTC)						
	46	Manufacturer/Model	VTA						
OPTIONS	47	Siphon	YES (coiled type)						
	48	Snubber	Material	NA		NA			
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled	Silicone oil (VTC)						
	51	Pulsation Dampener	NA						
	52	Solid Front	NA						
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material	PTFE (VTC)						
PURCHASE	58	Manufacturer	Will be finalized later						
	59	Model	Will be finalized later						
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سروال	نسخه	شماره صفحه: ۱۰ از ۳۶
۰۹۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	8		D-PG-2109		1
	2	Service			FROM FUEL GAS HEADER TO BURNER				
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		4/7			
	4	Line No. / Equipment No.	Piping Class	FLG-111-0024-AN07-1"-PT		AN07			
PROCESS CONDITIONS	5	Fluid	Phase	FUEL GAS		V			
	6	Operating Pressure:	Normal	Maximum	Unit	4.9	4.9	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	48	48	°C	
	9	Design Pressure			Unit	9		barg	
	10	Design Temperature			Unit	85		°C	
	11	Operating Viscosity			Unit	0.01147		cp	
	12	Pulsation			-				
	13	Corrosive Service			-				
	14	Toxic Service			-				
15	NACE Requirement			YES					
GAUGE	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	0 ~ 10		Barg	
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS (NACE)				
	24	Socket Material			316 SS (NACE)				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS (NACE)				
	27	Nominal Accuracy			+/- 0.5% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Rubber Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	32	Manufacturer/Model			Will be finalized later				
DIAPHRAGM SEAL	33	Process Connection			NA				
	34	Connection Material	Connection Rating	NA		NA			
	35	Extended Length			NA				
	36	Diaphragm Material			NA				
	37	Bottom Housing Material			NA				
	38	Fill Fluid			NA				
	39	Capillary Length			NA				
	40	Capillary Bleeder			NA				
	41	Capillary Material			NA				
	42	Flushing Connection			NA				
	43	Top Housing Material			NA				
	44	Instrument Connection			NA				
	45	Fill Connection			NA				
	46	Model Number			NA				
OPTIONS	47	Siphon			NA				
	48	Snubber	Material	NA		NA			
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled			Silicone oil (VTC)				
	51	Pulsation Dampener			NA				
	52	Solid Front			YES				
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material			PTFE (VTC)				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و آبنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)									
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES									
شماره پیمان:	پروژه	بسته کاری	هواکننده	تسهیلات	رشته	نوع مدرک	سروال	نمونه	شماره صفحه: ۱۱ از ۳۶	
۰۵۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00		
GENERAL	1	Item Number	Tag Number	Quantity	9		D-PG-2110		1	
	2	Service			FROM FUEL GAS HEADER TO REBOILER					
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		4/7				
	4	Line No. / Equipment No.	Piping Class	FLG-111-0024-AN07-1"-PT		AN07				
PROCESS CONDITIONS	5	Fluid	Phase	FUEL GAS		V				
	6	Operating Pressure:	Normal	Maximum	Unit	4.9	4.9	barg		
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg		
	8	Operating Temperature:	Normal	Maximum	Unit	48	48	°C		
	9	Design Pressure			Unit	9	barg			
	10	Design Temperature			Unit	85	°C			
	11	Operating Viscosity			Unit	0.01147	cp			
	12	Pulsation			-					
	13	Corrosive Service			-					
	14	Toxic Service			-					
	15	NACE Requirement			YES					
	GAUGE	16	Pressure Element Type			Bourdon Tube				
		17	Range			Unit	0 ~ 10		Barg	
		18	Zero Adjustment			Yes				
		19	Mounting			Local				
20		Dial Size	Dial Color	150		White laminated with black numerals and markings				
21		Case Material	Window Material (Lens)	316 SS		Shatterproof				
22		Ring Construction	Ring Material	Screwed Ring		316 SS				
23		Pressure Element Material			316 SS (NACE)					
24		Socket Material			316 SS (NACE)					
25		Connection Size	Connection Location	1/2" NPT(M)		Bottom				
26		Movement Material			316 SS (NACE)					
27		Nominal Accuracy			+/- 0.5% of F.S					
28		Micrometer Pointer			Aluminium , Black					
29		Blow-Out Protection			Rubber Blow-out Protection on the Back					
30		Over range Protection			1.3 Full-Scale					
31		Ingress Protection			IP 65					
32		Manufacturer/Model			Will be finalized later					
DIAPHRAGM SEAL	33	Type	Process Connection			NA				
	34	Connection Material	Connection Rating			NA		NA		
	35	Extended Length			NA					
	36	Diaphragm Material			NA					
	37	Bottom Housing Material			NA					
	38	Fill Fluid			NA					
	39	Capillary Length			NA					
	40	Capillary Bleeder			NA					
	41	Capillary Material			NA					
	42	Flushing Connection			NA					
	43	Top Housing Material			NA					
	44	Instrument Connection			NA					
	45	Fill Connection			NA					
	46	Manufacturer/Model			NA					
	OPTIONS	47	Siphon			NA				
48		Snubber	Material			NA		NA		
49		Over Pressure Protector	Material	Setting	NA	NA	NA			
50		Oil Filled			Silicone oil (VTC)					
51		Pulsation Dampener								
52		Solid Front			YES					
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later				
	54	Body Material	Trim Material	316 SS		316 SS				
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)				
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#				
	57	Packing Material			PTFE (VTC)					
PURCHASE	58	Manufacturer			Will be finalized later					
	59	Model			Will be finalized later					
	60									

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰۰ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۱۲ از ۲۶
۰۵۴ - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	10	D-PG-2111			1
	2	Service			FROM V-130 TO E-200				
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			5/7		
	4	Line No. / Equipment No.	Piping Class	TEG-111-0004-AN04-2"-PT			AN04		
PROCESS CONDITIONS	5	Fluid	Phase	TEG			Liquid		
	6	Operating Pressure:	Normal	Maximum	Unit	0.3	0.6	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	191.5	192.7	°C	
	9	Design Pressure	Unit			F.V. / 5.8			
	10	Design Temperature	Unit			5 / 220			
	11	Operating Viscosity	Unit			0.67			
	12	Pulsation				-			
	13	Corrosive Service				NO			
	14	Toxic Service				-			
15	NACE Requirement				NO				
GAUGE	16	Pressure Element Type	Diaphragm						
	17	Range	Unit			0 ~ 1 Barg			
	18	Zero Adjustment				Yes			
	19	Mounting				Local			
	20	Dial Size	Dial Color	150			White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)	316 SS			Shatterproof		
	22	Ring Construction	Ring Material	Screwed Ring			316 SS		
	23	Pressure Element Material				316 SS (NACE)			
	24	Socket Material				316 SS (NACE)			
	25	Connection Size	Connection Location	1/2" NPT(M)			Bottom		
	26	Movement Material				316 SS (NACE)			
	27	Nominal Accuracy				+/- 0.5% of F.S			
	28	Micrometer Pointer				Aluminium , Black			
	29	Blow-Out Protection				Rubber Blow-out Protection on the Back			
	30	Over range Protection				1.3 Full-Scale			
	31	Ingress Protection				IP 65			
	32	Manufacturer/Model				Will be finalized later			
DIAPHRAGM SEAL	33	Process Connection				NA			
	34	Connection Material	Connection Rating	NA			NA		
	35	Extended Length				NA			
	36	Diaphragm Material				NA			
	37	Bottom Housing Material				NA			
	38	Fill Fluid				NA			
	39	Capillary Length				NA			
	40	Capillary Bleeder				NA			
	41	Capillary Material				NA			
	42	Flushing Connection				NA			
	43	Top Housing Material				NA			
	44	Instrument Connection				NA			
	45	Fill Connection				NA			
	46	Model Number				NA			
OPTIONS	47	Siphon				YES (coiled type)			
	48	Snubber	Material	NA			NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled				NA			
	51	Pulsation Dampener				NA			
	52	Solid Front				NA			
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold			Will be finalized later		
	54	Body Material	Trim Material	316 SS			316 SS		
	55	Process Connection	Instrument Connection	1/2" NPT(F)			1/2" NPT(F)		
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)			3000#		
	57	Packing Material				PTFE (VTC)			
PURCHASE	58	Manufacturer				Will be finalized later			
	59	Model				Will be finalized later			
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱۰-۰۰۰۰ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صاحبکارنده	تسهیلات	رشته	نوع مترک	سریال	نمونه	شماره صفحه: ۱۳ از ۳۶
۹۱۸۴-۰۷۳-۰۵۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity		11		D-PG-2112	
	2	Service							FROM E-200 TO C-200
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003				5/7	
	4	Line No. / Equipment No.	Piping Class	TEG-111-0027-AN07-1"-HI				AN07	
PROCESS CONDITIONS	5	Fluid	Phase	TEG		V / L			
	6	Operating Pressure:	Normal	Maximum	Unit	3.1	3.1	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	140	140	°C	
	9	Design Pressure				Unit	F.V. / 7.5	barg	
	10	Design Temperature				Unit	5 / 165	°C	
	11	Operating Viscosity				Unit	0.01 (vapor) and 1.3908 (liquid)	cp	
	12	Pulsation				-			
	13	Corrosive Service				YES			
	14	Toxic Service				-			
GAUGE	15	NACE Requirement				YES			
	16	Pressure Element Type				Bourdon Tube			
	17	Range	Unit			0 ~ 6		Barg	
	18	Zero Adjustment				Yes			
	19	Mounting				Local			
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material				316 SS (NACE)			
	24	Socket Material				316 SS (NACE)			
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material				316 SS (NACE)			
	27	Nominal Accuracy				+/- 0.5% of F.S			
	28	Micrometer Pointer				Aluminium , Black			
	29	Blow-Out Protection				Rubber Blow-out Protection on the Back			
	30	Over range Protection				1.3 Full-Scale			
	31	Ingress Protection				IP 65			
	32	Manufacturer/Model				Will be finalized later			
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type			
	34	Connection Material	Connection Rating	316 SS (NACE)		600#			
	35	Extended Length				VTA			
	36	Diaphragm Material				316 SS (NACE)			
	37	Bottom Housing Material				317 SS (NACE)			
	38	Fill Fluid				Silicone oil (VTC)			
	39	Capillary Length				3m(VTC)			
	40	Capillary Bleeder				YES/1/4" NPTF(VTC)			
	41	Capillary Material				316 SS (NACE)			
	42	Flushing Connection				1/4" NPTM(VTC)			
	43	Top Housing Material				316 SS (NACE)			
	44	Instrument Connection				1/2" NPTF(To Capillary)			
	45	Fill Connection				1/4" NPTF(VTC)			
	46	Manufacturer/Model				VTA			
OPTIONS	47	Siphon				YES (coiled type)			
	48	Snubber	Material			NA		NA	
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled				Silicone oil (VTC)			
	51	Pulsation Dampener				NA			
	52	Solid Front				YES			
MANIFOLD	53	Valve Type	Model			NA		NA	
	54	Body Material	Trim Material			NA		NA	
	55	Process Connection	Instrument Connection			NA		NA	
	56	Vent/Drain size	Valve Rating			NA		NA	
	57	Packing Material				NA			
PURCHASE	58	Manufacturer				Will be finalized later			
	59	Model				Will be finalized later			
	60								

Note:
 1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.
 2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard
 3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.
 4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صاحبکارنده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۴ از ۳۶
۰۵۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity		12	D-PG-2113		1
	2	Service				FROM F-200 TO E-200			
	3	P & ID No.	Page		BK-GCS-MF-120-PR-PI-0003		5/7		
	4	Line No. / Equipment No.	Piping Class		TEG-111-0021-AN07-1"-HI		AN07		
PROCESS CONDITIONS	5	Fluid	Phase		TEG		V / L		
	6	Operating Pressure:	Normal	Maximum	Unit	3.3	3.3	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	73.6	74.52	°C	
	9	Design Pressure			Unit	F.V. / 7.5		barg	
	10	Design Temperature			Unit	5 / 165		°C	
	11	Operating Viscosity			Unit	0.01 (vapor) and 5.36 (liquid)		cp	
	12	Pulsation			-				
	13	Corrosive Service			YES				
	14	Toxic Service			-				
GAUGE	15	NACE Requirement			YES				
	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	0 ~ 6		Barg	
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color		150	White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)		316 SS	Shatterproof			
	22	Ring Construction	Ring Material		Screwed Ring	316 SS			
	23	Pressure Element Material			316 SS (NACE)				
	24	Socket Material			316 SS (NACE)				
	25	Connection Size	Connection Location		1/2" NPT(M)	Bottom			
	26	Movement Material			316 SS (NACE)				
	27	Nominal Accuracy			+/- 0.5% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Rubber Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	DIAPHRAGM SEAL	32	Manufacturer/Model			Will be finalized later			
33		Type	Process Connection		Clamped Diaphragm Seals(VTC)		2" Flanged type		
34		Connection Material	Connection Rating		316 SS (NACE)		600#		
35		Extended Length			VTA				
36		Diaphragm Material			316 SS (NACE)				
37		Bottom Housing Material			317 SS (NACE)				
38		Fill Fluid			Silicone oil (VTC)				
39		Capillary Length			3m(VTC)				
40		Capillary Bleeder			YES/1/4" NPTF(VTC)				
41		Capillary Material			316 SS (NACE)				
42		Flushing Connection			1/4" NPTM(VTC)				
43		Top Housing Material			316 SS (NACE)				
44		Instrument Connection			1/2" NPTF(To Capillary)				
OPTIONS		45	Fill Connection			1/4" NPTF(VTC)			
	46	Manufacturer/Model			VTA				
	47	Siphon			NA				
	48	Snubber		Material	NA		NA		
	49	Over Pressure Protector		Material	Setting	NA	NA	NA	
	50	Oil Filled			Silicone oil (VTC)				
MANIFOLD	51	Pulsation Dampener			NA				
	52	Solid Front			YES				
	53	Valve Type		Model	NA		NA		
	54	Body Material		Trim Material	NA		NA		
	55	Process Connection		Instrument Connection	NA		NA		
PURCHASE	56	Vent/Drain size		Valve Rating	NA		NA		
	57	Packing Material			NA				
	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و آبنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (A-001-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سریال	نسخه	شماره صفحه: ۱۵ از ۳۶
۰۵۳ - -۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	13		D-PG-2114		1
	2	Service	FROM E-200 TO P-100-B						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		5/7			
	4	Line No. / Equipment No.	Piping Class	TEG-111-0006-AN04-2"-HI		AN04			
PROCESS CONDITIONS	5	Fluid	Phase	TEG		Liquid			
	6	Operating Pressure:	Normal	Maximum	Unit	0.2	0.2	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	119.43	123.6	°C	
	9	Design Pressure			Unit	F.V. / 5.8		barg	
	10	Design Temperature			Unit	5 / 220		°C	
	11	Operating Viscosity			Unit	2.15 / 2.36		cp	
	12	Pulsation					-		
	13	Corrosive Service					NO		
	14	Toxic Service					-		
GAUGE	15	NACE Requirement					NO		
	16	Pressure Element Type					Diaphragm		
	17	Range			Unit	0 ~ 0.6		Barg	
	18	Zero Adjustment					Yes		
	19	Mounting					Local		
	20	Dial Size	Dial Color			150	White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)			316 SS	Shatterproof		
	22	Ring Construction	Ring Material			Screwed Ring	316 SS		
	23	Pressure Element Material					316 SS (NACE)		
	24	Socket Material					316 SS (NACE)		
	25	Connection Size	Connection Location			1/2" NPT(M)	Bottom		
	26	Movement Material					316 SS (NACE)		
	27	Nominal Accuracy					+/- 0.5% of F.S		
	28	Micrometer Pointer					Aluminium , Black		
	29	Blow-Out Protection					Rubber Blow-out Protection on the Back		
	30	Over range Protection					1.3 Full-Scale		
	31	Ingress Protection					IP 65		
	32	Manufacturer/Model					Will be finalized later		
DIAPHRAGM SEAL	33	Process Connection					NA		
	34	Connection Material	Connection Rating			NA	NA		
	35	Extended Length					NA		
	36	Diaphragm Material					NA		
	37	Bottom Housing Material					NA		
	38	Fill Fluid					NA		
	39	Capillary Length					NA		
	40	Capillary Bleeder					NA		
	41	Capillary Material					NA		
	42	Flushing Connection					NA		
	43	Top Housing Material					NA		
	44	Instrument Connection					NA		
	45	Fill Connection					NA		
	46	Model Number					NA		
OPTIONS	47	Siphon					YES (coiled type)		
	48	Snubber	Material			NA	NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled					Silicone oil (VTC)		
	51	Pulsation Dampener					NA		
	52	Solid Front					NA		
MANIFOLD	53	Valve Type	Model			2-Way Valve Manifold		Will be finalized later	
	54	Body Material	Trim Material			316 SS		316 SS	
	55	Process Connection	Instrument Connection			1/2" NPT(F)		1/2" NPT(F)	
	56	Vent/Drain size	Valve Rating			1/4" NPT(F)		3000#	
	57	Packing Material					PTFE (VTC)		
PURCHASE	58	Manufacturer					Will be finalized later		
	59	Model					Will be finalized later		
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰۰ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	مصادره کننده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۱۶ از ۳۶
۰۹۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	14	D-PG-2115			1
	2	Service			FROM P-100-A TO E-300				
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			5/7		
	4	Line No. / Equipment No.	Piping Class	TEG-111-0004-FN04-1"-HI			FN04		
PROCESS CONDITIONS	5	Fluid	Phase	TEG			Liquid		
	6	Operating Pressure:	Normal	Maximum	Unit	55.1	55.1	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	120.45	124.6	°C	
	9	Design Pressure	Unit			F.V. / 62			
	10	Design Temperature	Unit			5 / 145			
	11	Operating Viscosity	Unit			2.11 / 2.31			
	12	Pulsation				-			
	13	Corrosive Service				-			
	14	Toxic Service				-			
GAUGE	15	NACE Requirement				-			
	16	Pressure Element Type				Bourdon Tube			
	17	Range	Unit			0 ~ 100			
	18	Zero Adjustment				Yes			
	19	Mounting				Local			
	20	Dial Size	Dial Color	150			White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)	316 SS			Shatterproof		
	22	Ring Construction	Ring Material	Screwed Ring			316 SS		
	23	Pressure Element Material				316 SS			
	24	Socket Material				316 SS			
	25	Connection Size	Connection Location	1/2" NPT(M)			Bottom		
	26	Movement Material				316 SS			
	27	Nominal Accuracy				+/- 0.5% of F.S			
	28	Micrometer Pointer				Aluminium , Black			
	29	Blow-Out Protection				Rubber Blow-out Protection on the Back			
	30	Over range Protection				1.3 Full-Scale			
	31	Ingress Protection				IP 65			
	DIAPHRAGM SEAL	32	Manufacturer/Model				Will be finalized later		
33		Process Connection				NA			
34		Connection Material	Connection Rating	NA			NA		
35		Extended Length				NA			
36		Diaphragm Material				NA			
37		Bottom Housing Material				NA			
38		Fill Fluid				NA			
39		Capillary Length				NA			
40		Capillary Bleeder				NA			
41		Capillary Material				NA			
42		Flushing Connection				NA			
43		Top Housing Material				NA			
44		Instrument Connection				NA			
OPTIONS		45	Fill Connection				NA		
	46	Model Number				NA			
	47	Siphon				YES (coiled type)			
	48	Snubber	Material	NA			NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled				Silicone oil (VTC)			
MANIFOLD	51	Pulsation Dampener				NA			
	52	Solid Front				YES			
	53	Valve Type	Model	2-Way Valve Manifold			Will be finalized later		
	54	Body Material	Trim Material	316 SS			316 SS		
	55	Process Connection	Instrument Connection	1/2" NPT(F)			1/2" NPT(F)		
PURCHASE	56	Vent/Drain size	Valve Rating	1/4" NPT(F)			3000#		
	57	Packing Material				PTFE (VTC)			
	58	Manufacturer				Will be finalized later			
	59	Model				Will be finalized later			
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱۰-۰۰۱ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع متریک	سریال	نمونه	شماره صفحه: ۱۷ از ۳۶
۰۵۳ - - ۰۷۳ - ۹۱۸۶	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	15	D-PG-2116			1
	2	Service	FROM P-100-B TO E-300						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			5/7		
	4	Line No. / Equipment No.	Piping Class	TEG-111-0006-AN04-2"-HI			AN04		
PROCESS CONDITIONS	5	Fluid	Phase	TEG			Liquid		
	6	Operating Pressure:	Normal	Maximum	Unit	55.1	55.1	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	120.45	124.6	°C	
	9	Design Pressure	Unit			F.V. / 62			barg
	10	Design Temperature	Unit			5 / 145			°C
	11	Operating Viscosity	Unit			2.11 / 2.31			cp
	12	Pulsation	-						
	13	Corrosive Service	-						
	14	Toxic Service	-						
GAUGE	15	NACE Requirement	-						
	16	Pressure Element Type	Bourdon Tube						
	17	Range	Unit			0 ~ 100			Barg
	18	Zero Adjustment	Yes						
	19	Mounting	Local						
	20	Dial Size	Dial Color	150			White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)	316 SS			Shatterproof		
	22	Ring Construction	Ring Material	Screwed Ring			316 SS		
	23	Pressure Element Material	316 SS						
	24	Socket Material	316 SS						
	25	Connection Size	Connection Location	1/2" NPT(M)			Bottom		
	26	Movement Material	316 SS						
	27	Nominal Accuracy	+/- 0.5% of F.S						
	28	Micrometer Pointer	Aluminium , Black						
29	Blow-Out Protection	Rubber Blow-out Protection on the Back							
30	Over range Protection	1.3 Full-Scale							
31	Ingress Protection	IP 65							
32	Manufacturer/Model	Will be finalized later							
DIAPHRAGM SEAL	33	Process Connection	NA						
	34	Connection Material	Connection Rating	NA			NA		
	35	Extended Length	NA						
	36	Diaphragm Material	NA						
	37	Bottom Housing Material	NA						
	38	Fill Fluid	NA						
	39	Capillary Length	NA						
	40	Capillary Bleeder	NA						
	41	Capillary Material	NA						
	42	Flushing Connection	NA						
	43	Top Housing Material	NA						
	44	Instrument Connection	NA						
	45	Fill Connection	NA						
	46	Model Number	NA						
OPTIONS	47	Siphon	YES (coiled type)						
	48	Snubber	Material	NA			NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled	Silicone oil (VTC)						
	51	Pulsation Dampener	NA						
	52	Solid Front	YES						
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold			Will be finalized later		
	54	Body Material	Trim Material	316 SS			316 SS		
	55	Process Connection	Instrument Connection	1/2" NPT(F)			1/2" NPT(F)		
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)			3000#		
	57	Packing Material	PTFE (VTC)						
PURCHASE	58	Manufacturer	Will be finalized later						
	59	Model	Will be finalized later						
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱۰-۰۰۱ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سریال	نمونه	شماره صفحه: ۱۸ از ۳۶
۰۵۳ - - ۰۷۳ - ۹۱۸۶	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	16		D-PG-2117		1
	2	Service			FUEL GAS TO REBOILER				
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		5/7			
	4	Line No. / Equipment No.	Piping Class	TEG-111-0005-FN04-1"-HI		FN04			
PROCESS CONDITIONS	5	Fluid	Phase	FUEL GAS		V			
	6	Operating Pressure:	Normal	Maximum	Unit	4.9	4.9	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	48	48	°C	
	9	Design Pressure			Unit	9	barg		
	10	Design Temperature			Unit	85	°C		
	11	Operating Viscosity			Unit	0.01147	cp		
	12	Pulsation			-				
	13	Corrosive Service			-				
	14	Toxic Service			-				
GAUGE	15	NACE Requirement			-				
	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	0 ~ 10		Barg	
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS				
	24	Socket Material			316 SS				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS				
	27	Nominal Accuracy			+/- 0.5% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Rubber Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	DIAPHRAGM SEAL	32	Manufacturer/Model			Will be finalized later			
33		Process Connection			NA				
34		Connection Material	Connection Rating	NA		NA			
35		Extended Length			NA				
36		Diaphragm Material			NA				
37		Bottom Housing Material			NA				
38		Fill Fluid			NA				
39		Capillary Length			NA				
40		Capillary Bleeder			NA				
41		Capillary Material			NA				
42		Flushing Connection			NA				
43		Top Housing Material			NA				
44		Instrument Connection			NA				
45		Fill Connection			NA				
46		Model Number			NA				
OPTIONS		47	Siphon			NA			
	48	Snubber	Material			NA		NA	
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled			Silicone oil (VTC)				
	51	Pulsation Dampener			NA				
	52	Solid Front			YES				
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material			PTFE (VTC)				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱۰-۰۰۱ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع متریک	سریال	نمونه	شماره صفحه: ۱۹ از ۳۶
۰۵۳ - - ۰۷۳ - ۹۱۸۶	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	17		D-PG-2118		1
	2	Service				FROM P-200-A TO TO LEAN GLYCOL PUMP'S SUCTION LINE			
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		6/7			
	4	Line No. / Equipment No.	Piping Class	CHM-111-0005-AS00-1"-HI		AS00			
PROCESS CONDITIONS	5	Fluid	Phase	Will be finalized later		Will be finalized later			
	6	Operating Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	8	Operating Temperature:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	9	Design Pressure			Unit	Will be finalized later			
	10	Design Temperature			Unit	Will be finalized later			
	11	Operating Viscosity			Unit	Will be finalized later			
	12	Pulsation			Will be finalized later				
	13	Corrosive Service			Will be finalized later				
	14	Toxic Service			Will be finalized later				
GAUGE	15	NACE Requirement			Will be finalized later				
	16	Pressure Element Type			Bourdon Tube				
	17	Range	Unit		Will be finalized later		Barg		
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	Cast Aluminum		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS				
	24	Socket Material			316 SS				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS				
	27	Nominal Accuracy			+/- 1% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	32	Manufacturer/Model			Will be finalized later				
DIAPHRAGM SEAL	33	Process Connection			NA				
	34	Connection Material	Connection Rating	NA		NA			
	35	Extended Length			NA				
	36	Diaphragm Material			NA				
	37	Bottom Housing Material			NA				
	38	Fill Fluid			NA				
	39	Capillary Length			NA				
	40	Capillary Bleeder			NA				
	41	Capillary Material			NA				
	42	Flushing Connection			NA				
	43	Top Housing Material			NA				
	44	Instrument Connection			NA				
	45	Fill Connection			NA				
	46	Model Number			NA				
OPTIONS	47	Siphon			NA				
	48	Snubber	Material	NA		NA			
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled			Silicone oil (VTC)				
	51	Pulsation Dampener			NA				
	52	Solid Front			NA				
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material			PTFE (VTC)				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰۰۰۰۰۰ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	مصادف کننده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۲۰ از ۲۶
۰۹۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	18		D-PG-2119		1
	2	Service FROM P-200-B TO TO LEAN GLYCOL PUMP'S SUCTION LINE							
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		6/7			
	4	Line No. / Equipment No.	Piping Class	CHM-111-0005-AS00-1"-HI		AS00			
PROCESS CONDITIONS	5	Fluid	Phase	Will be finalized later		Will be finalized later			
	6	Operating Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	8	Operating Temperature:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	9	Design Pressure			Unit	Will be finalized later			
	10	Design Temperature			Unit	Will be finalized later			
	11	Operating Viscosity			Unit	Will be finalized later			
	12	Pulsation			Will be finalized later				
	13	Corrosive Service			Will be finalized later				
	14	Toxic Service			Will be finalized later				
15	NACE Requirement			Will be finalized later					
GAUGE	16	Pressure Element Type			Bourdon Tube				
	17	Range		Unit	Will be finalized later				Barg
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	Cast Aluminum		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS				
	24	Socket Material			316 SS				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS				
	27	Nominal Accuracy			+/- 1% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	32	Manufacturer/Model			Will be finalized later				
DIAPHRAGM SEAL	33	Process Connection			NA				
	34	Connection Material	Connection Rating	NA		NA			
	35	Extended Length			NA				
	36	Diaphragm Material			NA				
	37	Bottom Housing Material			NA				
	38	Fill Fluid			NA				
	39	Capillary Length			NA				
	40	Capillary Bleeder			NA				
	41	Capillary Material			NA				
	42	Flushing Connection			NA				
	43	Top Housing Material			NA				
	44	Instrument Connection			NA				
	45	Fill Connection			NA				
	46	Model Number			NA				
	OPTIONS	47	Siphon			NA			
48		Snubber	Material	NA		NA			
49		Over Pressure Protector	Material	Setting	NA	NA	NA		
50		Oil Filled			Silicone oil (VTC)				
51		Pulsation Dampener			NA				
52		Solid Front			NA				
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material			PTFE (VTC)				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

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4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰۰۰۰۰۰ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	مصادره کننده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۲۱ از ۲۶
۰۹۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	19		D-PG-2120		1
	2	Service FROM P-300-A TO TO LEAN GLYCOL PUMP'S SUCTION LINE							
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		7/7			
	4	Line No. / Equipment No.	Piping Class	CHM-111-0006-AS00-1"-HI		AS00			
PROCESS CONDITIONS	5	Fluid	Phase	Will be finalized later		Will be finalized later			
	6	Operating Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	8	Operating Temperature:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	9	Design Pressure			Unit	Will be finalized later			
	10	Design Temperature			Unit	Will be finalized later			
	11	Operating Viscosity			Unit	Will be finalized later			
	12	Pulsation			Will be finalized later				
	13	Corrosive Service			Will be finalized later				
	14	Toxic Service			Will be finalized later				
15	NACE Requirement			Will be finalized later					
GAUGE	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	Will be finalized later			Barg
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	Cast Aluminum		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS				
	24	Socket Material			316 SS				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS				
	27	Nominal Accuracy			+/- 1% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	32	Manufacturer/Model			Will be finalized later				
DIAPHRAGM SEAL	33	Process Connection			NA				
	34	Connection Material	Connection Rating	NA		NA			
	35	Extended Length			NA				
	36	Diaphragm Material			NA				
	37	Bottom Housing Material			NA				
	38	Fill Fluid			NA				
	39	Capillary Length			NA				
	40	Capillary Bleeder			NA				
	41	Capillary Material			NA				
	42	Flushing Connection			NA				
	43	Top Housing Material			NA				
	44	Instrument Connection			NA				
	45	Fill Connection			NA				
	46	Model Number			NA				
	OPTIONS	47	Siphon			NA			
48		Snubber	Material	NA		NA			
49		Over Pressure Protector	Material	Setting	NA	NA	NA		
50		Oil Filled			Silicone oil (VTC)				
51		Pulsation Dampener			NA				
52		Solid Front			NA				
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material			PTFE (VTC)				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

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	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-GCS-HD-BK قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صنایع کلان	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۲۲ از ۲۶
۰۵۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	20		D-PG-2121		1
	2	Service FROM P-300-B TO TO LEAN GLYCOL PUMP'S SUCTION LINE							
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003		7/7			
	4	Line No. / Equipment No.	Piping Class	CHM-111-0006-AS00-1"-HI		AS00			
PROCESS CONDITIONS	5	Fluid	Phase	Will be finalized later		Will be finalized later			
	6	Operating Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	8	Operating Temperature:	Normal	Maximum	Unit	Will be finalized later		Will be finalized later	
	9	Design Pressure			Unit	Will be finalized later			
	10	Design Temperature			Unit	Will be finalized later			
	11	Operating Viscosity			Unit	Will be finalized later			
	12	Pulsation			Will be finalized later				
	13	Corrosive Service			Will be finalized later				
GAUGE	14	Toxic Service			Will be finalized later				
	15	NACE Requirement			Will be finalized later				
	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	Will be finalized later			Barg
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	Cast Aluminum		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS				
	24	Socket Material			316 SS				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS				
	27	Nominal Accuracy			+/- 1% of F.S				
28	Micrometer Pointer			Aluminium , Black					
29	Blow-Out Protection			Blow-out Protection on the Back					
30	Over range Protection			1.3 Full-Scale					
31	Ingress Protection			IP 65					
32	Manufacturer/Model			Will be finalized later					
DIAPHRAGM SEAL	33	Process Connection			NA				
	34	Connection Material	Connection Rating	NA		NA			
	35	Extended Length			NA				
	36	Diaphragm Material			NA				
	37	Bottom Housing Material			NA				
	38	Fill Fluid			NA				
	39	Capillary Length			NA				
	40	Capillary Bleeder			NA				
	41	Capillary Material			NA				
	42	Flushing Connection			NA				
	43	Top Housing Material			NA				
	44	Instrument Connection			NA				
	45	Fill Connection			NA				
	46	Model Number			NA				
OPTIONS	47	Siphon			NA				
	48	Snubber	Material			NA		NA	
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled			Silicone oil (VTC)				
	51	Pulsation Dampener			NA				
	52	Solid Front			NA				
MANIFOLD	53	Valve Type	Model	2-Way Valve Manifold		Will be finalized later			
	54	Body Material	Trim Material	316 SS		316 SS			
	55	Process Connection	Instrument Connection	1/2" NPT(F)		1/2" NPT(F)			
	56	Vent/Drain size	Valve Rating	1/4" NPT(F)		3000#			
	57	Packing Material			PTFE (VTC)				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

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	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صنایع کلانده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۲۳ از ۳۶
۰۹۴ - - ۰۷۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	21	D-PDG-2101			1
	2	Service	F-100-A						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			3/7		
	4	Line No. / Equipment No.	Piping Class	F-100-A			NA		
PROCESS CONDITIONS	5	Fluid	Phase	TEG			V / L		
	6	Operating Pressure:	Normal	Maximum	Unit	4.5	4.5	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	73.63	74.53	°C	
	9	Design Pressure	Unit			F.V. / 8			
	10	Design Temperature	Unit			5 / 100			
	11	Operating Viscosity	Unit			0.01 (vapor) and 5.369 (liquid)			
	12	Pulsation				-			
	13	Corrosive Service				YES			
	14	Toxic Service				-			
GAUGE	15	NACE Requirement				YES			
	16	Pressure Element Type				Bourdon Tube			
	17	Range	Unit			0 ~ 10			
	18	Zero Adjustment				Yes			
	19	Mounting				Local			
	20	Dial Size	Dial Color	150			White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)	316 SS			Shatterproof		
	22	Ring Construction	Ring Material	Screwed Ring			316 SS		
	23	Pressure Element Material				316 SS (NACE)			
	24	Socket Material				316 SS (NACE)			
	25	Connection Size	Connection Location	1/2" NPT(M)			Bottom		
	26	Movement Material				316 SS			
	27	Nominal Accuracy				+/- 0.5% of F.S			
	28	Micrometer Pointer				Aluminium , Black			
	29	Blow-Out Protection				Rubber Blow-out Protection on the Back			
	30	Over range Protection				1.3 Full-Scale			
	31	Ingress Protection				IP 65			
	DIAPHRAGM SEAL	32	Manufacturer/Model				Will be finalized later		
33		Type	Process Connection	Clamped Diaphragm Seals(VTC)			2" Flanged type		
34		Connection Material	Connection Rating	316 SS (NACE)			600#		
35		Extended Length				VTA			
36		Diaphragm Material				316 SS (NACE)			
37		Bottom Housing Material				317 SS (NACE)			
38		Fill Fluid				Silicone oil (VTC)			
39		Capillary Length				3m(VTC)			
40		Capillary Bleeder				YES/1/4" NPTF(VTC)			
41		Capillary Material				316 SS (NACE)			
42		Flushing Connection				1/4" NPTM(VTC)			
43		Top Housing Material				316 SS (NACE)			
44		Instrument Connection				1/2" NPTF(To Capillary)			
OPTIONS		45	Fill Connection				1/4" NPTF(VTC)		
	46	Manufacturer/Model				VTA			
	47	Siphon				VTA			
	48	Snubber	Material				NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled				Silicone oil (VTC)			
	51	Pulsation Dampener				NA			
MANIFOLD	52	Solid Front				YES			
	53	Valve Type	Model	NA			NA		
	54	Body Material	Trim Material	NA			NA		
	55	Process Connection	Instrument Connection	NA			NA		
	56	Vent/Drain size	Valve Rating	NA			NA		
PURCHASE	57	Packing Material				NA			
	58	Manufacturer				Will be finalized later			
	59	Model				Will be finalized later			
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number.

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سریال	نسخه	شماره صفحه: ۳۶ از ۴۶
۰۵۳ - - ۰۷۳ - ۹۱۸۶	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity		22	D-PDG-2102		1
	2	Service					F-100-B		
	3	P & ID No.	Page		BK-GCS-MF-120-PR-PI-0003		3/7		
	4	Line No. / Equipment No.	Piping Class		F-100-B		NA		
PROCESS CONDITIONS	5	Fluid	Phase		TEG		V / L		
	6	Operating Pressure:	Normal	Maximum	Unit	4.5	4.5	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	73.63	74.53	°C	
	9	Design Pressure			Unit	F.V. / 8		barg	
	10	Design Temperature			Unit	5 / 100		°C	
	11	Operating Viscosity			Unit	0.01 (vapor) and 5.369 (liquid)		cp	
	12	Pulsation			-				
	13	Corrosive Service			YES				
	14	Toxic Service			-				
GAUGE	15	NACE Requirement			YES				
	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	0 ~ 10		Barg	
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color		150		White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)		316 SS		Shatterproof		
	22	Ring Construction	Ring Material		Screwed Ring		316 SS		
	23	Pressure Element Material			316 SS (NACE)				
	24	Socket Material			316 SS (NACE)				
	25	Connection Size	Connection Location		1/2" NPT(M)		Bottom		
	26	Movement Material			316 SS				
	27	Nominal Accuracy			+/- 0.5% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Rubber Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	32	Manufacturer/Model			Will be finalized later				
DIAPHRAGM SEAL	33	Type	Process Connection		Clamped Diaphragm Seals(VTC)		2" Flanged type		
	34	Connection Material	Connection Rating		316 SS (NACE)		600#		
	35	Extended Length			VTA				
	36	Diaphragm Material			316 SS (NACE)				
	37	Bottom Housing Material			317 SS (NACE)				
	38	Fill Fluid			Silicone oil (VTC)				
	39	Capillary Length			3m(VTC)				
	40	Capillary Bleeder			YES/1/4" NPTF(VTC)				
	41	Capillary Material			316 SS (NACE)				
	42	Flushing Connection			1/4" NPTM(VTC)				
	43	Top Housing Material			316 SS (NACE)				
	44	Instrument Connection			1/2" NPTF(To Capillary)				
	45	Fill Connection			1/4" NPTF(VTC)				
	46	Manufacturer/Model			VTA				
OPTIONS	47	Siphon			VTA				
	48	Snubber	Material		NA		NA		
	49	Over Pressure Protector	Material		Setting	NA	NA	NA	
	50	Oil Filled			Silicone oil (VTC)				
	51	Pulsation Dampener			NA				
	52	Solid Front			YES				
MANIFOLD	53	Valve Type	Model		NA		NA		
	54	Body Material	Trim Material		NA		NA		
	55	Process Connection	Instrument Connection		NA		NA		
	56	Vent/Drain size	Valve Rating		NA		NA		
	57	Packing Material			NA				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

Note:

1-Engraved stainless steel corrosion resistant tag name plate has to be securely fitted to each instrument,provided with the instrument tag number .

2-All the wetted parts in sour service shall be in accordance with NACE MR-01-75/ISO 15156 standard

3-Pressure gauges shall be able to withstand 1.3 times the maximum process design rating. When this is not possible gauge protection devices may be employed.

4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۱-BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	هسابرکننده	تسهیلات	رشته	نوع مدرک	سروال	نسخه	شماره صفحه: ۲۵ از ۲۶
۰۵۴ - ۰۰۳ - ۹۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	23	D-PDG-2103			1
	2	Service	F-200-A						
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003			3/7		
	4	Line No. / Equipment No.	Piping Class	F-200-A			NA		
PROCESS CONDITIONS	5	Fluid	Phase	TEG			V / L		
	6	Operating Pressure:	Normal	Maximum	Unit	3.8	3.8	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	73.63	74.53	°C	
	9	Design Pressure	Unit			F.V. / 7.5			
	10	Design Temperature	Unit			5 / 100			
	11	Operating Viscosity	Unit			0.01 (vapor) and 5.369 (liquid)			
	12	Pulsation	-						
	13	Corrosive Service	YES						
	14	Toxic Service	-						
GAUGE	15	NACE Requirement	YES						
	16	Pressure Element Type	Bourdon Tube						
	17	Range	Unit			0 ~ 6			Barg
	18	Zero Adjustment	Yes						
	19	Mounting	Local						
	20	Dial Size	Dial Color	150			White laminated with black numerals and markings		
	21	Case Material	Window Material (Lens)	316 SS			Shatterproof		
	22	Ring Construction	Ring Material	Screwed Ring			316 SS		
	23	Pressure Element Material	316 SS (NACE)						
	24	Socket Material	316 SS (NACE)						
	25	Connection Size	Connection Location	1/2" NPT(M)			Bottom		
	26	Movement Material	316 SS (NACE)						
	27	Nominal Accuracy	+/- 0.5% of F.S						
	28	Micrometer Pointer	Aluminium , Black						
	29	Blow-Out Protection	Rubber Blow-out Protection on the Back						
	30	Over range Protection	1.3 Full-Scale						
	31	Ingress Protection	IP 65						
	32	Manufacturer/Model	Will be finalized later						
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)			2" Flanged type		
	34	Connection Material	Connection Rating	316 SS (NACE)			600#		
	35	Extended Length	VTA						
	36	Diaphragm Material	316 SS (NACE)						
	37	Bottom Housing Material	317 SS (NACE)						
	38	Fill Fluid	Silicone oil (VTC)						
	39	Capillary Length	3m(VTC)						
	40	Capillary Bleeder	YES/1/4" NPTF(VTC)						
	41	Capillary Material	316 SS (NACE)						
	42	Flushing Connection	1/4" NPTM(VTC)						
	43	Top Housing Material	316 SS (NACE)						
	44	Instrument Connection	1/2" NPTF(To Capillary)						
	45	Fill Connection	1/4" NPTF(VTC)						
	46	Manufacturer/Model	VTA						
OPTIONS	47	Siphon	NA						
	48	Snubber	Material	NA			NA		
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled	Silicone oil (VTC)						
	51	Pulsation Dampener	NA						
	52	Solid Front	YES						
MANIFOLD	53	Valve Type	Model	NA			NA		
	54	Body Material	Trim Material	NA			NA		
	55	Process Connection	Instrument Connection	NA			NA		
	56	Vent/Drain size	Valve Rating	NA			NA		
	57	Packing Material	NA						
PURCHASE	58	Manufacturer	Will be finalized later						
	59	Model	Will be finalized later						
	60								

Note:

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4-All the pressure gauges shall be scaled in BARG & PSIG.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (۸-۰۰۱-۰۰۰ BK-HD-GCS-CO قرارداد)								
	INSTRUMENT D.S. FOR PRESSURE GAUGES AND DIFF. PRESSURE GAUGES								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مترک	سریال	نسخه	شماره صفحه: ۳۶ از ۳۶
۰۵۳-۰۰۷۳-۰۱۱۸۴	BK	GCS	MF	120	IN	DS	0006	V00	
GENERAL	1	Item Number	Tag Number	Quantity	24		D-PDG-2104		1
	2	Service			F-200-B				
	3	P & ID No.	Page	BK-GCS-MF-120-PR-PI-0003				3/7	
	4	Line No. / Equipment No.	Piping Class	F-200-B				NA	
PROCESS CONDITIONS	5	Fluid	Phase	TEG		V / L			
	6	Operating Pressure:	Normal	Maximum	Unit	3.8	3.8	barg	
	7	Operating Diff. Pressure:	Normal	Maximum	Unit	-	-	barg	
	8	Operating Temperature:	Normal	Maximum	Unit	73.63	74.53	°C	
	9	Design Pressure			Unit	F.V. / 7.5		barg	
	10	Design Temperature			Unit	5 / 100		°C	
	11	Operating Viscosity			Unit	0.01 (vapor) and 5.369 (liquid)		cp	
	12	Pulsation			-				
	13	Corrosive Service			YES				
	14	Toxic Service			-				
GAUGE	15	NACE Requirement			YES				
	16	Pressure Element Type			Bourdon Tube				
	17	Range			Unit	0 ~ 6		Barg	
	18	Zero Adjustment			Yes				
	19	Mounting			Local				
	20	Dial Size	Dial Color	150		White laminated with black numerals and markings			
	21	Case Material	Window Material (Lens)	316 SS		Shatterproof			
	22	Ring Construction	Ring Material	Screwed Ring		316 SS			
	23	Pressure Element Material			316 SS (NACE)				
	24	Socket Material			316 SS (NACE)				
	25	Connection Size	Connection Location	1/2" NPT(M)		Bottom			
	26	Movement Material			316 SS (NACE)				
	27	Nominal Accuracy			+/- 0.5% of F.S				
	28	Micrometer Pointer			Aluminium , Black				
	29	Blow-Out Protection			Rubber Blow-out Protection on the Back				
	30	Over range Protection			1.3 Full-Scale				
	31	Ingress Protection			IP 65				
	32	Manufacturer/Model			Will be finalized later				
DIAPHRAGM SEAL	33	Type	Process Connection	Clamped Diaphragm Seals(VTC)		2" Flanged type			
	34	Connection Material	Connection Rating	316 SS (NACE)		600#			
	35	Extended Length			VTA				
	36	Diaphragm Material			316 SS (NACE)				
	37	Bottom Housing Material			317 SS (NACE)				
	38	Fill Fluid			Silicone oil (VTC)				
	39	Capillary Length			3m(VTC)				
	40	Capillary Bleeder			YES/1/4" NPTF(VTC)				
	41	Capillary Material			316 SS (NACE)				
	42	Flushing Connection			1/4" NPTM(VTC)				
	43	Top Housing Material			316 SS (NACE)				
	44	Instrument Connection			1/2" NPTF(To Capillary)				
	45	Fill Connection			1/4" NPTF(VTC)				
	46	Manufacturer/Model			VTA				
OPTIONS	47	Siphon			NA				
	48	Snubber	Material			NA		NA	
	49	Over Pressure Protector	Material	Setting	NA	NA	NA		
	50	Oil Filled			Silicone oil (VTC)				
	51	Pulsation Dampener			NA				
	52	Solid Front			YES				
MANIFOLD	53	Valve Type	Model	NA		NA			
	54	Body Material	Trim Material	NA		NA			
	55	Process Connection	Instrument Connection	NA		NA			
	56	Vent/Drain size	Valve Rating	NA		NA			
	57	Packing Material			NA				
PURCHASE	58	Manufacturer			Will be finalized later				
	59	Model			Will be finalized later				
	60								

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