

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنيه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-CO-GCS-HD-BK)								
	INSTRUMENT D.S. FOR LEVEL GAUGES								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادرکننده MF	تسهیلات 120	رشته IN	نوع مدرک DS	سریال 0010	نسخه V00	شماره صفحه: ۱۱ از ۱۱

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT D.S. FOR LEVEL GAUGES

نگهداشت و افزایش تولید میدان نفتی بینک

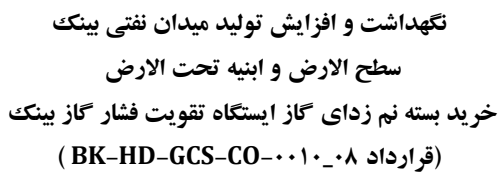
V00	Mar.2025	IFA	MFS	M.Fakharian	S.Faramarzpour	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
		CLIENT Doc. Number: -				

status:

IFA: Issued For Approval

IFI: Issued For Information

AFC: Approved For Construction



شماره پیمان:

• 03 - • 73 - 9184

شماره صفحه: ۲ از ۱۱

Page	V00	V01	V02	V03	V04	Page	V00	V01	V02	V03	V04
1	X					61					
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3	X					63					
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5	X					65					
6	X					66					
7	X					67					
8	X					68					
9	X					69					
10	X					70					
11	X					71					
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		تنگداشت و افزایش تولید میدان نفتی بینک سطح الارض و اینیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱۰-BK-HD-GCS-CO)								
		INSTRUMENT D.S. FOR LEVEL GAUGES								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00	
GENERAL	1	Item Number		Tag Number		Quantity		1		D-LG-2101
	2	Service						C-100		
	3	P & ID No.		Page No.				BK-GCS-MF-120-PR-PI-0003		1/7
	4	Line No. / Equipment No.		Piping Class				C-100		NA
PROCESS CONDITIONS	5	Upper Fluid		Lower Fluid				TEG		TEG
	6	Upper Phase		Lower Phase				Liquid		Liquid
	7	Oper. Pressure:		Design Press.(Min/Max)		Unit		53.8/54.9		62/F.V.
	8	Oper. Temperature:		Design Temp.(Min/Max)		Unit		62.08/63.6		5/148
	9	Upper Viscosity		Lower Viscosity		Unit		0.01229 (vapor) and 7.17 (Liquid)		0.01229 (vapor) and 7.17 (Liquid)
	10	Upper Density		Lower Density		Unit		1069		1069
	11	Corrosive Service		NACE Requirement				YES		YES
	12	Toxic Service		Solid in Suspension				YES		YES
GAUGE	13	Transparency		Measuring Range		Unit		Transparent		150-1050
	14									
	15	Type						Transparent		
	16	Length Centre to Centre				Unit		1300		
	17	Visible Range				Unit		1040 mm(VTC)		
	18	Sections Required		Section Glass Size				3 x 9 (Note 1)		320 mm (VTC)
	19	Connection Size & Type		Rating				3/4", Flanged -RF		600#
	20	Connection Layout						Side - Side		
GAUGE COCKS	21	Body Material						ASTM A105,NACE		
	22	Glass Material						Heat Resistant Borosilicat		
	23	Wetted part Material						SS316,NACE		
	24	Gasket Material						Asbestos free and capable of sealing under continuous pressure and temperature conditions of the gauge glass.		
	25	Type						Ball Check Offset Cock Valve		
	26	Number Required						2		
	27	Body Material						ASTM A105,NACE		
	28	Trim Material						HARD FACE 316 SS,NACE		
GAUGE COCKS	29	Bonnet						ASTM A105,NACE,(Standard Bolted) VTC		
	30	Ball Check						YES , HARD FACE 316 SS,NACE		
	31	Vessel Connection	Size	Rating		Standpipe connection 3" (3/4" LG Connection to the Standpipe)		600#RF		
	32		Type (Flange / Union)			Flanged -RF				
	33	Gauge Connection	Size			3/4"				
	34		Union(Yes/No)			YES(VTC)				
	35	Drain Connection	Size	Rating		1/2"		600#		
	36		Type (Flange / NPT)			NPTF				
	37	Vent Connection	Size	Rating		1/2"		600#		
	38		Type (Flange / NPT)			NPTF with Plug				
	39	Renewable Seats						NA		
	40	Drain Valve						1/2" NPTF, 600# Ball Valve (Body:ASTM A105 NACE/Trim:316 SS,NACE)		
	41	Manufacturer						Will be finalized later		
	42	Model						Will be finalized later		
OPTIONS	43	Mica Shield						Yes		
	44	Expansion Loop						NA		
	45	Frost Extension	Length				NA		NA	
	46	Jacket or Internal Tracer						NA		
	47	Illuminator	Power Supply				NO(VTC)		230V AC	
	48	Ex Certificate						Ex d IIB T4(If Required)		
	49	Ingress Protection						IP65(If Required)		
	50	Electrical connections						M20 x 1.5(If Required)		
PURCHASE	51									
	52	Manufacturer						Will be finalized later		
	53	Model						Will be finalized later		
	54	Requisition Number								

Note:
1- "9" refers to section size and "1" is quantity of section .
2-Gauge cock valve shall be of a quick acting, offset type and shall have bolted bonnets with Handwheels on Left or Right side of gauge and with bolted and Union gauge connection.
3-Each gauge shall be stamped with the maximum working pressure and temperature which is equal to or higher than the vessel design pressure and temperature ratings.
4-VTA: Vendor to advice. VTC: Vendor to confirm NA:Not Applicable NR: Not Required.

Note:
1- "9" refers to section size and "1" is quantity of section .
2-Gauge cock valve shall be of a quick acting, offset type and shall have bolted bonnets with Handwheels on Left or Right side of gauge and with bolted and Union gauge connection.
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		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 LEVEL GAUGES								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۵
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00	
GENERAL	1	Item Number		Tag Number		Quantity		3	D-LG-2103	1
	2	Service						V-120		
	3	P & ID No.		Page No.				BK-GCS-MF-120-PR-PI-0003		2/7
	4	Line No. / Equipment No.		Piping Class				V-120		NA
PROCESS CONDITIONS	5	Upper Fluid		Lower Fluid				HCB		HCB
	6	Upper Phase		Lower Phase				L		L
	7	Oper. Pressure:		Design Press.(Min/Max)		Unit	4.5		8	barg
	8	Oper. Temperature:		Design Temp.(Min/Max)		Unit	73.5		120	C
	9	Upper Viscosity		Lower Viscosity		Unit	0.3438		0.3438	cp
	10	Upper Density		Lower Density		Unit	671.1		671.1	kg/m3
	11	Corrosive Service		NACE Requirement				YES		YES
	12	Toxic Service		Solid in Suspension				NO		YES
	13	Transparency		Measuring Range		Unit			200-400	mm
	14									
GAUGE	15	Type						Transparent		
	16	Length Centre to Centre				Unit	600		mm	
	17	Visible Range				Unit	320 mm(VTC)		mm	
	18	Sections Required		Section Glass Size				1 x 9 (Note 1)		320 mm (VTC)
	19	Connection Size & Type		Rating				3/4", Flanged -RF		600#
	20	Connection Layout						Side - Side		
	21	Body Material						ASTM A105,NACE		
	22	Glass Material						Heat Resistant Borosilicat		
	23	Wetted part Material						SS316,NACE		
	24	Gasket Material						Asbestos free and capable of sealing under continuous pressure and temperature conditions of the gauge glass.		
GAUGE COCKS	25	Type						Ball Check Offset Cock Valve		
	26	Number Required						1		
	27	Body Material						ASTM A105 (VTC)		
	28	Trim Material						HARD FACE 316 SS		
	29	Bonnet						ASTM A105 (Standard Bolted) VTC		
	30	Ball Check						YES , HARD FACE 316 SS		
	31	Vessel	Size	Rating			2"	800#RF		
	32	Connection	Type (Flange / Union)				Flanged -RF			
	33	Gauge	Size					3/4"		
	34	Connection	Union(Yes/No)				YES			
	35	Drain	Size	Rating			3/4"	800#		
	36	Connection	Type (Flange / NPT)				Flanged -RF			
	37	Vent	Size	Rating			3/4"	800#		
	38	Connection	Type (Flange / NPT)				NPTF with Plug			
	39	Renewable Seats						NA		
	40	Manufacturer						Will be selected later		
	41	Model						Will be selected later		
	42	Drain Valve						3/4" 800# RF Ball Valve (ASTM A105/316L SS)		
OPTIONS	43	Mica Shield						Yes		
	44	Expansion Loop						NA		
	45	Frost Extension	Length					NA	NA	
	46	Jacket or Internal Tracer						NA		
	47	Illuminator	Power Supply					YES	220V AC	
	48	Ex Certificate						Eex d,IIB,T4		
	49	Ingress Protection						IP65		
	50	Scale						Yes (mm)		
	51	Electrical connections						M20 x 1.5		
PURCHASE	52	Manufacturer						Will be finalized later		
	53	Model						Will be finalized later		
	54	Requisition Number								

Note:

1- "9" refers to section size and "1" is quantity of section .

2-Gauge cock valve shall be of a quick acting, offset type and shall have bolted bonnets with Handwheels on Left or Right side of gauge and with bolted and Union gauge connection.

3-Each gauge shall be stamped with the maximum working pressure and temperature which is equal to or higher than the vessel design pressure and temperature ratings.

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		INSTRUMENT D.S. FOR LEVEL GAUGES								
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۷
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00	
GENERAL	1	Item Number	Tag Number		Quantity		5		D-LG-2105	1
	2	Service						R-100		
	3	P & ID No.	Page No.		BK-GCS-MF-120-PR-PI-0003		4/7			
	4	Line No. / Equipment No.	Piping Class		R-100		NA			
PROCESS CONDITIONS	5	Upper Fluid	Lower Fluid		TEG		TEG			
	6	Upper Phase	Lower Phase		Liquid		Liquid			
	7	Oper. Pressure:	Design Press.(Min/Max)		Unit	0.3/0.6	4.1/F.V.	barg		
	8	Oper. Temperature:	Design Temp.(Min/Max)		Unit	140/204	5/234	C		
	9	Upper Viscosity	Lower Viscosity		Unit	0.67		cp		
	10	Upper Density	Lower Density		Unit	981.71	981.71	kg/m3		
	11	Corrosive Service	NACE Requirement		YES		YES			
	12	Toxic Service	Solid in Suspension		YES		YES			
	13	Transparency	Measuring Range		Unit	Transparent	800-960	mm		
	14									
GAUGE	15	Type				Transparent				
	16	Length Centre to Centre				Unit	600		mm	
	17	Visible Range				Unit	320 mm(VTC)		mm	
	18	Sections Required	Section Glass Size		1 x 9 (Note 1)		320 mm (VTC)			
	19	Connection Size & Type	Rating		3/4", Flanged -RF		600#			
	20	Connection Layout				Side - Side				
	21	Body Material				ASTM A105,NACE				
	22	Glass Material				Heat Resistant Borosilicat				
23	Wetted part Material				SS316,NACE					
24	Gasket Material				Asbestos free and capable of sealing under continuous pressure and temperature conditions of the gauge glass.					
GAUGE COCKS	25	Type				Ball Check Offset Cock Valve				
	26	Number Required				2				
	27	Body Material				ASTM A105 (VTC)				
	28	Trim Material				HARD FACE 316 SS				
	29	Bonnet				ASTM A105 (Standard Bolted) VTC				
	30	Ball Check				YES , HARD FACE 316 SS				
	31	Vessel	Size	Rating	2"		800#RF			
	32	Connection	Type (Flange / Union)		Flanged -RF					
	33	Gauge	Size	3/4"						
	34	Connection	Union(Yes/No)		YES					
	35	Drain	Size	Rating	3/4"		800#			
	36	Connection	Type (Flange / NPT)		Flanged -RF					
	37	Vent	Size	Rating	3/4"		800#			
	38	Connection	Type (Flange / NPT)		NPTF with Plug					
	39	Renewable Seats				NA				
	40	Manufacturer				Will be selected later				
	41	Model				Will be selected later				
	42	Drain Valve				3/4" 800# RF Ball Valve (ASTM A105/316L SS)				
OPTIONS	43	Mica Shield				Yes				
	44	Expansion Loop				NA				
	45	Frost Extension	Length		NA		NA			
	46	Jacket or Internal Tracer				NA				
	47	Illuminator	Power Supply		YES		220V AC			
	48	Ex Certificate				Eex d,IIB,T4				
	49	Ingress Protection				IP65				
	50	Scale				Yes (mm)				
	51	Electrical connections				M20 x 1.5				
PURCHASE	52	Manufacturer				Will be finalized later				
	53	Model				Will be finalized later				
	54	Requisition Number								

Note:

1- "9" refers to section size and "1" is quantity of section .

2-Gauge cock valve shall be of a quick acting, offset type and shall have bolted bonnets with Handwheels on Left or Right side of gauge and with bolted and Union gauge connection.

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		INSTRUMENT D.S. FOR LEVEL GAUGES									
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۸	
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00		
GENERAL	1	Item Number		Tag Number		Quantity		6	D-LG-2106		1
	2	Service						V-130			
	3	P & ID No.		Page No.				BK-GCS-MF-120-PR-PI-0003		4/7	
	4	Line No. / Equipment No.		Piping Class				V-130		NA	
PROCESS CONDITIONS	5	Upper Fluid		Lower Fluid				TEG		TEG	
	6	Upper Phase		Lower Phase				Liquid		Liquid	
	7	Oper. Pressure:		Design Press.(Min/Max)		Unit	0.3/0.6	4.1/F.V.		barg	
	8	Oper. Temperature:		Design Temp.(Min/Max)		Unit	140/204	5/234		C	
	9	Upper Viscosity		Lower Viscosity		Unit	0.67	0.67		cp	
	10	Upper Density		Lower Density		Unit	981.71	981.71		kg/m3	
	11	Corrosive Service		NACE Requirement				YES		YES	
	12	Toxic Service		Solid in Suspension				YES		YES	
	13	Transparency		Measuring Range		Unit	Transparent	250-980		mm	
	14										
GAUGE	15	Type						Transparent			
	16	Length Centre to Centre				Unit	1300			mm	
	17	Visible Range				Unit	1040 mm(VTC)			mm	
	18	Sections Required		Section Glass Size		3 x 9 (Note 1)		320 mm (VTC)			
	19	Connection Size & Type		Rating		3/4", Flanged -RF		600#			
	20	Connection Layout						Side - Side			
	21	Body Material						ASTM A105,NACE			
	22	Glass Material						Heat Resistant Borosilicat			
23	Wetted part Material						SS316,NACE				
24	Gasket Material						Asbestos free and capable of sealing under continuous pressure and temperature conditions of the gauge glass.				
GAUGE COCKS	25	Type						Ball Check Offset Cock Valve			
	26	Number Required						3			
	27	Body Material						ASTM A105 (VTC)			
	28	Trim Material						HARD FACE 316 SS			
	29	Bonnet						ASTM A105 (Standard Bolted) VTC			
	30	Ball Check						YES , HARD FACE 316 SS			
	31	Vessel	Size	Rating	2"		800#RF				
	32	Connection	Type (Flange / Union)				Flanged -RF				
	33	Gauge	Size			3/4"					
	34	Connection	Union(Yes/No)				YES				
	35	Drain	Size	Rating	3/4"		800#				
	36	Connection	Type (Flange / NPT)				Flanged -RF				
	37	Vent	Size	Rating	3/4"		800#				
	38	Connection	Type (Flange / NPT)				NPTF with Plug				
	39	Renewable Seats						NA			
	40	Manufacturer						Will be selected later			
41	Model						Will be selected later				
42	Drain Valve						3/4" 800# RF Ball Valve (ASTM A105/316L SS)				
OPTIONS	43	Mica Shield						Yes			
	44	Expansion Loop						NA			
	45	Frost Extension	Length		NA		NA				
	46	Jacket or Internal Tracer						NA			
	47	Illuminator	Power Supply		YES		220V AC				
	48	Ex Certificate						Eex d,IIB,T4			
	49	Ingress Protection						IP65			
	50	Scale						Yes (mm)			
	51	Electrical connections						M20 x 1.5			
PURCHASE	52	Manufacturer						Will be finalized later			
	53	Model						Will be finalized later			
	54	Requisition Number									

Note:

1- "9" refers to section size and "1" is quantity of section .

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		INSTRUMENT D.S. FOR LEVEL GAUGES									
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۹ از ۱۱	
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00		
GENERAL	1	Item Number		Tag Number		Quantity		7	D-LG-2107		1
	2	Service						V-130			
	3	P & ID No.		Page No.				BK-GCS-MF-120-PR-PI-0003		4/7	
	4	Line No. / Equipment No.		Piping Class				V-130		NA	
PROCESS CONDITIONS	5	Upper Fluid		Lower Fluid				TEG		TEG	
	6	Upper Phase		Lower Phase				Liquid		Liquid	
	7	Oper. Pressure:		Design Press.(Min/Max)		Unit		0.3/0.6		4.1/F.V.	
	8	Oper. Temperature:		Design Temp.(Min/Max)		Unit		140/204		5/234	
	9	Upper Viscosity		Lower Viscosity		Unit		0.67		0.67	
	10	Upper Density		Lower Density		Unit		981.71		981.71	
	11	Corrosive Service		NACE Requirement				YES		YES	
	12	Toxic Service		Solid in Suspension				YES		YES	
	13	Transparency		Measuring Range		Unit		Transparent		250-980	
	14										
GAUGE	15	Type						Transparent			
	16	Length Centre to Centre				Unit		1300		mm	
	17	Visible Range				Unit		1040 mm(VTC)		mm	
	18	Sections Required		Section Glass Size				3 x 9 (Note 1)		320 mm (VTC)	
	19	Connection Size & Type		Rating				3/4", Flanged -RF		600#	
	20	Connection Layout						Side - Side			
	21	Body Material						ASTM A105,NACE			
	22	Glass Material						Heat Resistant Borosilicat			
23	Wetted part Material						SS316,NACE				
GAUGE COCKS	24	Gasket Material						Asbestos free and capable of sealing under continuous pressure and temperature conditions of the gauge glass.			
	25	Type						Ball Check Offset Cock Valve			
	26	Number Required						3			
	27	Body Material						ASTM A105 (VTC)			
	28	Trim Material						HARD FACE 316 SS			
	29	Bonnet						ASTM A105 (Standard Bolted) VTC			
	30	Ball Check						YES , HARD FACE 316 SS			
	31	Vessel	Size	Rating				2"		800#RF	
	32	Connection	Type (Flange / Union)						Flanged -RF		
	33	Gauge	Size						3/4"		
	34	Connection	Union(Yes/No)						YES		
	35	Drain	Size	Rating				3/4"		800#	
	36	Connection	Type (Flange / NPT)						Flanged -RF		
	37	Vent	Size	Rating				3/4"		800#	
	38	Connection	Type (Flange / NPT)						NPTF with Plug		
39	Renewable Seats						NA				
40	Manufacturer						Will be selected later				
41	Model						Will be selected later				
42	Drain Valve						3/4" 800# RF Ball Valve (ASTM A105/316L SS)				
OPTIONS	43	Mica Shield						Yes			
	44	Expansion Loop						NA			
	45	Frost Extension	Length				NA		NA		
	46	Jacket or Internal Tracer						NA			
	47	Illuminator	Power Supply				YES		220V AC		
	48	Ex Certificate						Eex d,IIB,T4			
	49	Ingress Protection						IP65			
	50	Scale						Yes (mm)			
	51	Electrical connections						M20 x 1.5			
PURCHASE	52	Manufacturer						Will be finalized later			
	53	Model						Will be finalized later			
	54	Requisition Number									

Note:

1- "9" refers to section size and "1" is quantity of section .

2-Gauge cock valve shall be of a quick acting, offset type and shall have bolted bonnets with Handwheels on Left or Right side of gauge and with bolted and Union gauge connection.

3-Each gauge shall be stamped with the maximum working pressure and temperature which is equal to or higher than the vessel design pressure and temperature ratings.

4-VTA: Vendor to advice. VTC: Vendor to confirm NA:Not Applicable NR: Not Required.

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نیم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۱۰-۰۰۱-BK-HD-GCS-CO)									
	INSTRUMENT D.S. FOR LEVEL GAUGES									
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۰ از ۱۱
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00	
GENERAL	1	Item Number	Tag Number		Quantity		8		D-LG-2108	
	2	Service						TK-100		1
	3	P & ID No.		Page No.				BK-GCS-MF-120-PR-PI-0003		6/7
	4	Line No. / Equipment No.		Piping Class				TK-100		NA
PROCESS CONDITIONS	5	Upper Fluid		Lower Fluid				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	6	Upper Phase		Lower Phase				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	7	Oper. Pressure:		Design Press.(Min/Max)		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	8	Oper. Temperature:		Design Temp.(Min/Max)		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	9	Upper Viscosity		Lower Viscosity		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	10	Upper Density		Lower Density		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	11	Corrosive Service		NACE Requirement				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	12	Toxic Service		Solid in Suspension				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	13	Transparency		Measuring Range		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data
	14									
GAUGE	15	Type						Will be finalized later		
	16	Lengh Centre to Centre				Unit		Will be finalized later		mm
	17	Visible Range				Unit		320 mm(VTC)		mm
	18	Sections Required		Section Glass Size				1 x 9 (Note 1)		320 mm (VTC)
	19	Connection Size & Type		Rating				3/4", Flanged -RF		600#
	20	Connection Layout						Side - Side		
	21	Body Material						ASTM A105,NACE		
	22	Glass Material						Heat Resistant Borosilicat		
23	Wetted part Material						SS316,NACE			
24	Gasket Material						Asbestos free and capable of sealing under continuous pressure and temperature conditions of the gauge glass.			
GAUGE COCKS	25	Type						Ball Check Offset Cock Valve		
	26	Number Required						1		
	27	Body Material						ASTM A105 (VTC)		
	28	Trim Material						HARD FACE 316 SS		
	29	Bonnet						ASTM A105 (Standard Bolted) VTC		
	30	Ball Check						YES , HARD FACE 316 SS		
	31	Vessel	Size	Rating				2"		800#RF
	32	Connection	Type (Flange / Union)						Flanged -RF	
	33	Gauge	Size						3/4"	
	34	Connection	Union(Yes/No)						YES	
	35	Drain	Size	Rating				3/4"		800#
	36	Connection	Type (Flange / NPT)						Flanged -RF	
	37	Vent	Size	Rating				3/4"		800#
	38	Connection	Type (Flange / NPT)						NPTF with Plug	
39	Renewable Seats								NA	
40	Manufacturer								Will be selected later	
41	Model								Will be selected later	
42	Drain Valve								3/4" 800# RF Ball Valve (ASTM A105/316L SS)	
OPTIONS	43	Mica Shield								Yes
	44	Expansion Loop								NA
	45	Frost Extension	Length				NA		NA	
	46	Jacket or Internal Tracer								NA
	47	Illuminator	Power Supply				YES		220V AC	
	48	Ex Certificate								Ex d,IIB,T4
	49	Ingress Protection								IP65
	50	Scale								Yes (mm)
51	Electrical connections								M20 x 1.5	
PURCHASE	55	Manufacturer								Will be finalized later
	56	Model								Will be finalized later
	57	Requisition Number								

Note:
1- "9" refers to section size and "1" is quantity of section .
2-Gauge cock valve shall be of a quick acting, offset type and shall have bolted bonnets with Handwheels on Left or Right side of gauge and with bolted and Union gauge connection.
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		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض خرید بسته نم زدای گاز ایستگاه تقویت فشار گاز بینک (قرارداد ۰۸-۰۰۱۰-BK-HD-GCS-CO)										
		INSTRUMENT D.S. FOR LEVEL GAUGES										
شماره پیمان:		پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۱		
۰۵۳ - ۰۷۳ - ۹۱۸۴		BK	GCS	MF	120	IN	DS	0010	V00			
GENERAL	1	Item Number	Tag Number		Quantity		9		D-LG-2109		1	
	2	Service							TK-200			
	3	P & ID No.	Page No.				BK-GCS-MF-120-PR-PI-0003		7/7			
	4	Line No. / Equipment No.	Piping Class				TK-200		NA			
PROCESS CONDITIONS	5	Upper Fluid	Lower Fluid				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	6	Upper Phase	Lower Phase				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	7	Oper. Pressure:	Design Press.(Min/Max)		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	8	Oper. Temperature:	Design Temp.(Min/Max)		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	9	Upper Viscosity	Lower Viscosity		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	10	Upper Density	Lower Density		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	11	Corrosive Service	NACE Requirement				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	12	Toxic Service	Solid in Suspension				It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	13	Transparency	Measuring Range		Unit		It will be finalized after receiving Vendor data		It will be finalized after receiving Vendor data			
	14											
GAUGE	15	Type					Will be finalized later					
	16	Length Centre to Centre			Unit		Will be finalized later		mm			
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	18	Sections Required	Section Glass Size				1 x 9 (Note 1)		320 mm (VTC)			
	19	Connection Size & Type	Rating				3/4", Flanged -RF		600#			
	20	Connection Layout					Side - Side					
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	30	Ball Check					YES , HARD FACE 316 SS					
	31	Vessel Connection	Size	Rating			2"		800#RF			
	32		Type (Flange / Union)				Flanged -RF					
	33	Gauge Connection	Size					3/4"				
	34		Union(Yes/No)				YES					
	35	Drain Connection	Size	Rating			3/4"		800#			
	36		Type (Flange / NPT)				Flanged -RF					
	37	Vent Connection	Size	Rating			3/4"		800#			
	38		Type (Flange / NPT)				NPTF with Plug					
	39	Renewable Seats					NA					
	40	Manufacturer					Will be selected later					
	41	Model					Will be selected later					
	42	Drain Valve					3/4" 800# RF Ball Valve (ASTM A105/316L SS)					
	OPTIONS	43	Mica Shield					Yes				
		44	Expansion Loop					NA				
45		Frost Extension	Length				NA		NA			
46		Jacket or Internal Tracer					NA					
47		Illuminator	Power Supply				YES		220V AC			
48		Ex Certificate					Eex d,IIB,T4					
49		Ingress Protection					IP65					
50		Scale					Yes (mm)					
51		Electrical connections					M20 x 1.5					
PURCHASE	55	Manufacturer					Will be finalized later					
	56	Model					Will be finalized later					
	57	Requisition Number										

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