

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 	
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تجهیزات 120	رشته IN	نوع مدرک DT	سریال 0016	نسخه D04	شماره صفحه: 1 از 27

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

نگهداشت و افزایش تولید میدان نفتی بینک

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Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
Class: 1		CLIENT Doc. Number: 'F9Z-708936				
status: IDC: Inter-Discipline Check IFC: Issued For Comment IFA: Issued For Approval AFD: Approved For Design AFC: Approved For Construction AFP: Approved For Purchase AFQ: Approved For Quotation IFI: Issued For Information AB-R: As-Built for CLIENT Review AB-A: As-Built -Approved						



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 2 از 27
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D04	

REVISION RECORD SHEET

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1	X	X	X	X	X	65					
2	X	X	X	X	X	66					
3	X	X			X	67					
4	X				X	68					
5	X	X	X		X	69					
6	X	X	X		X	70					
7	X	X	X	X	X	71					
8	X	X	X	X	X	72					
9	X	X	X	X	X	73					
10	X	X	X	X	X	74					
11	X	X	X	X	X	75					
12	X	X	X	X	X	76					
13	X	X	X		X	77					
14	X	X	X	X	X	78					
15	X	X	X	X		79					
16	X		X	X	X	80					
17	X	X	X	X		81					
18	X		X	X	X	82					
19	X	X	X	X		83					
20	X		X	X	X	84					
21	X	X	X		X	85					
22	X	X	X	X	X	86					
23	X	X	X			87					
24	X	X	X	X	X	88					
25	X	X	X			89					
26		X	X	X	X	90					
27		X	X	X		91					
28						92					
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
	شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک		سریال
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REFERENECE DOCUMENT

F&G Location Layout For Process AREA	BK-GCS-PEDCO-120-IN-PY-0005
F&G Location Layout For Buildings	BK-GCS-PEDCO-120-IN-PY-0006
FIRE & GAS DETECTION DESIGN CRITERIA	BK-GCS-PEDCO-120-IN-DC-0001
SPEC. FOR FIRE & GAS SENSOR AND DEVICES	BK-00-HD-000-IN-SP-0009-D00
F&G Cause and Effect Diagram For Process Area	BK-GCS-PEDCO-120-IN-DG-0009
F&G Cause and Effect Diagram For Buildings	BK-GCS-PEDCO-120-IN-DG-0010

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان: 053 - 073 – 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0016	نسخه D04	شماره صفحه: 4 از 27

GENERAL NOTES:

- 1 - Vendor shall identify and detail any deviation from the present Data Sheet
- 2- All equipments/detectors listed in this document shall be supplied with related calibration and test equipments.
- 3 - S.S. Name plate including project description to be provided.
- 4- Low power consumption to be considered.

 NISOC	 نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							
DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D04
شماره صفحه: 15 از 27								

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه
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DATASHEET FOR FLAMMABLE GAS DETECTOR		
GENERAL	1	Tag No.
	2	Ambient Temperature Min / Max (°C)
	3	Design Relative Humidity Min / Max (%)
	4	Atmospheric Condition
	5	Area Classification
	6	F&G Location Layout No.
	7	Location of Installation
DETECTOR	8	Function
	9	Service
	9	Case Color
	10	Detector Type
	11	Sensor Type
	12	Covering Range
	13	Accuracy
	14	Detection Range
	15	Repeatability
	16	Response time
	17	Life Time
	18	Output Signal
	19	System Wiring
	20	Local Indicator LCD Type
	21	Built-in-Test
	22	Power Supply
	23	Power Consumption
	24	Electrical Connection
	25	Body and Housing Material
	26	Mounting
	27	Mounting Accessories Material
	28	Degree of Protection
	29	Explosion Protection
	30	Safety Integrity Level
	31	Certificate
	32	Nameplates
	33	Manufacturer
	34	Model No.

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- The gas detectors shall still work after an extended period in operation ,without any low concentration of the specific gas ,not at all.
- The response of a detector shall be clearly visible from the outside by a flashing ligh-emitting(LED) of sufficient brightness.
- The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
- Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands,shelter, other accessories (including splash guard, Calibration Kit, etc)
- Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.
- All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
- Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
- Analogue data with two digital signals as low, high alarm to be sent by detector to F&G system via multicore cable. Also analogue data to be shown by local indicator(LCD) at field.
- FGDs shall be capable to connect to Smart Hart Communication.



احداث ردیف تو اکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

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روزہ

نته کاری

صادرکننده

تسهيلات

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FLAMMABLE GAS DETECTOR LIST

1. Calibration and test devices for Flammable Gas Detectors to be advise by vendor.

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 8 از 27
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D04	

DATASHEET FOR TOXIC GAS DETECTOR				
GENERAL	1	Tag No.	See Next Page	
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)	
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)	
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty	
	5	Area Classification	See Next Page'	
	6	F&G Location Layout No.	See Next Page	
	7	Location of Installation	See Next Page	
DETECTOR	8	Function	Toxic Gas Detector (HC)	
	9	Service	See Next Page	
	10	Detector Type	Conventional	
	11	Sensor Type	electrochemical type	
	12	Measuring Range / Calibration Range	0 - 50 ppm / 5 - 20 ppm	
	13	Accuracy	± 2% of full scale	
	14	Repeatability	<±2% of Full Scale	
	15	Response time	<5 Sec	
	16	Life Time	Typical 2 to 5 Years	
	17	Output Signal	4~20 Ma+ Hart (signal+power)	
	18	System Wiring	3 wire	
	19	Local Indicator LCD Type	Yes	
	20	Built-in-Test	Manual and Automatic	
	21	Power Supply	24 VDC -Loop Powered	
	22	Power Consumption	VTA (Note 8)	
	23	Electrical Connection	M20 x 1.5	
	24	Body and Housing Material	Epoxy coated die cast aluminum(copper free)	
	25	Mounting	Bracket (Note 5)	
	26	Mounting Accessories Material	316 SS	
	27	Degree of Protection	See Next Page	
	28	Explosion Protection	See Next Page	
	29	Safety Integrity Level	SIL Rated (Minimum SIL 2) 	
	30	Certificate	Calibration, SIL, IEC 60529 (IP), ATEX , MATERIAL	
	31	Nameplates	Stainless Steel	
		32	Manufacturer	VTA
		33	Model No.	VTA

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- The gas detectors shall still work after an extended period in operation ,without any low concentration of the specific gas ,not at all.
- The response of a detector shall be clearly visible from the outside by a flashing high-emitting(LED) of sufficient brightness.
- The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
- Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands,shelter, other accessories (including splash guard, Calibration Kit, etc)
- Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.
- All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
- Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
- Analogue data with two digital signals as low, high alarm to be sent by detector to F&G system via multicore cable. Also analogue data to be shown by local indicator(LCD) at field.
- TGDs shall be capable to connect to Smart Hart Communication.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تا کم گاز در استگاه جمع آوری سنک



ماره پیمان:

053 - 073 - 9184

شماره صفحه: 9 از 27

TOXIC GAS DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	TGD-1001	Area 1 - Pig Receiver Area	BK-GCS-PEDCO-120-IN-PY-0005 (4 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
2	TGD-2001	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
3	TGD-2002	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
4	TGD-2003	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
5	TGD-2004	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
6	TGD-4001A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
7	TGD-4002A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
8	TGD-4003A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
9	TGD-4004A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
10	TGD-4001B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
11	TGD-4002B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
12	TGD-4003B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
13	TGD-4004B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
14	TGD-4001C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
15	TGD-4002C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
16	TGD-4003C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
17	TGD-4004C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
18	TGD-5001A	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (8 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
19	TGD-5001B	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (8 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
20	TGD-5001C	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (8 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
21	TGD-6001	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexd Zone1, IIB T4	Hydrocarbon	
22	TGD-6002	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexd Zone1, IIB T4	Hydrocarbon	
23	TGD-6003	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexd Zone1, IIB T4	Hydrocarbon	
24	TGD-7001	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
25	TGD-7002	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
26	TGD-7003	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
27	TGD-1101	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
28	TGD-1102	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
29	TGD-1103	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
30	TGD-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
31	TGD-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
32	TGD-1203	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	
33	Calibration and test device for Toxic Gas Detectors							NOTE 1

1. Calibration and test devices for Toxic Gas Detectors to be advise by vendor.

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تجهیزات 120	رشته IN	نوع مدارک DT	سریال 0016	نسخه D04

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DATASHEET FOR FLAME DETECTOR			
GENERAL	1	Tag No.	See Next Page
	1	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	2	Design Relative Humidity Min / Max (%)	0~ 100 (%)
	3	Atmospheric Condition	Non-Acidic, Harsh and Dusty
	6	F&G Location Layout No.	See Next Page
	4	Area Classification	See Next Page
	5	Location of Installation	See Next Page
DETECTOR	6	Function	Flame Detector
	7	Service	See Next Page
	8	Detector Type	Conventional
	9	Sensor Type	UV/IR
	10	Spectral Response	(VTA)
	11	Field of Vision	max : 120° horizontal, 120° vertical
	12	Range (m)	20 Meter
	13	Sensitive wave length	VTA
	14	Response time	less than 5 sec @ 50 feet.
	15	Output Signal	4~20 Ma+ Hart (signal+power)
	16	System Wiring	3 wire
	17	Built-in-Test	Manual and Automatic (HART Compatible)
	18	Power Supply	24 VDC-Loop powered
	19	Power Consumption	VTA (Note 5)
	20	Electrical Connection	M20 x 1.5
	21	Body and Housing Material	Enclosure material Epoxy coated die cast aluminum (copper free)
	22	Mounting	Mounting Bracket with Tilt Mount capability
	23	Mounting Accessories Material	316 SS
	24	Degree of Protection	See Next Page
	25	Explosion Protection	See Next Page
	26	Safety Integrity Level	SIL Rated (Minimum SIL 2) D04
27	Certificate	Calibration, SIL ,IEC 60529 (IP), ATEX ,BSI EN54-10(2002)	
28	Nameplates	Stainless Steel	
	30	Manufacturer	VTA
	31	Model No.	VTA

Notes :

1. VTA : Vendor To Advise. VTC : Vendor To Confirm N/A : Not Applicable
2. Vendor scope of supply includes: All Mounting Accessories, cable glands, sunshade, other accessories (including air shield, swivel elbow union, sun and rain protection, etc) and also device shall have self testing ability, IR3 test lamp (with charger), Status Indicator (LED with status, fault and alarm indication) , test magnets (if required).
3. Vendor shall consider specific requirement for proper operation of detector according to ambient humidity if required.
4. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
5. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
6. FDs shall be capable to connect to Smart Hart Communication.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

شماره صفحه: 11 از 27

FLAME DETECTOR LIST

[illegible]

1. Calibration and test devices for Flame Detectors to be advise by vendor.

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک					 		
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D04

DATASHEET FOR HORN		
GENERAL	1	Tag No.
	2	Ambient Temprature Min / Max (°C)
	3	Design Relative Humidity Min / Max (%)
	4	Atmospheric Condition
	5	Area Classification
	6	F&G Location Layout No.
	7	Location of Installation
DETECTOR	8	System Type
	9	Function
	10	Sound Level
	11	Service
	12	Adjustable Sound Intensity
	13	Frequency Range
	14	Multiple Terminal Connection
	15	No. of Selectable Tones
	16	Power Supply
	17	System Wiring
	18	Power Consumption
	19	Electrical Connection
	20	Body and Housing Material
	21	Installation
	22	Mounting
	23	Mounting Accessories Material
	24	Degree of Protection
	25	Explosion Protection
	26	Weather Proof and Dust Proof
	27	Safety Integrity Level
	28	Certificate
	29	Nameplates Material
	30	Manufacturer
	31	Model No.

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Vendor shall specify weight, color and dimentions of devices and accessories.
3. The value of End Of Line (EOL) resistor shall be suggested by vendor.
4. Mounting Accessories, sunshade and cable gland are included in vendor scope of supply.
5. 2 different tones one for Flammable/ Toxic gas detection (non-continuous) and one for fire detection (continuous). Each tone shall be activated by receiveing dedicated signal.
6. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
7. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
8. Horn alarms shall have a range of at least 1.5 km in still air.
9. Junction box(EXE type with 7 aumored output cable) for each conventional Horns &related beacons and cable gland for connection to junction box are included in vendor scope of supply. (All internal termination cabling in between shall be done by vendor.)



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری پینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

شماره صفحه: 13 از 27

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BK

بسته کاری

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صادر کنندہ

PEDCO

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نسخه

D04

HORN LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	HN-1001	Area 1 - Pig Receiver Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
2	HN-2001	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
3	HN-3001	Area 3 - Chemical Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
4	HN-4001	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
5	HN-4002	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
6	HN-5001	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
7	HN-6001	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
8	HN-7002	Area 7 - Lean Glycol Storage Tank & Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
9	HN-8001	Area 8 - Fuel Oil Storage Drum & Fire Water Storage Tanks & Air Compressor / Air Dryer Packages Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
10	HN-9001	Area 9 - Diesel Generator Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
11	HN-1101	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
12	HN-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
13	HN-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (5 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
14	HN-1301	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
15	HN-1401	Ware house	BK-GCS-PEDCO-120-IN-PY-0006 (7 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
16	Calibration and test device for Horn							NOTE 1

1. Calibration and test devices for Horn to be advise by vendor.

 NISOC	تکهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 	
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	نهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 14 از 27
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D04	

DATASHEET FOR BEACON			
GENERAL	1	Tag No.	See Next Page
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	System Type	Conventional/ Addressable
	9	Service	See Next Page
	10	Function	• Red for fire detection • Blue for Toxic Gas Detector(if applicable) • Yellow for flammable gas detection
	11	Flash Rate	60 FPM/1HZ (VTA)
	12	Colour	See Next Page
	13	Lens Type	Glass
	14	Field of View	360°
	15	Tube type	Xenon
	16	Effective Intensity	200 cd to 1000 cd candela (VTA)
	17	Power Supply	24 VDC-Loop powered
	18	System Wiring	2 Core x 1.5 (for each Blue/ Red/Yellow Beacon)
	19	Power Consumption	VTA (Note 4)
	20	Electrical Connection	M20 x 1.5
	21	Body and Housing Material	Epoxy coated die cast aluminum (copper free)
	22	Installation	Fix
	23	Mounting	Bracket for outdoor and wall mounted for indoor type (Note 2)
	24	Mounting Accessories Material	316 SS
	25	Degree of Protection	See Next Page
	26	Explosion Protection	See Next Page
	27	Weather Proof and Dust Proof	Yes
	28	Safety Integrity Level	Non SIL
	29	Certificate	IEC 60529 (IP), ATEX , BSI EN54-3
30	Body Color	• Red for fire and flammable gas detection • Red for Toxic Gas Detector(if applicable)	
	31	Nameplates Material	Stainless Steel
	32	Manufacturer	VTA
	33	Model No.	VTA
Notes : 1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable 2. Vendor shall specify weight, color and dimentions of devices and accessories. 3. The value of End Of Line (EOL) resistor shall be suggested by vendor. 4. Mounting Accessories, sunshade and cable gland are included in vendor scope of supply. 5. 3 different colors to be selected for lights of beacon: • Red for fire detection • Blue for Toxic Gas Detector(if applicable) • Yellow for flammable gas detection 6. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body. 7. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.			

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک					 		
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تجهیزات 120	رشته IN	نوع مدرک DT	سریال 0016	نسخه D04

شماره صفحه: 16 از 27

DATASHEET FOR HYDROGEN GAS DETECTOR			
GENERAL	1	Tag No.	See Next Page
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	System Type	Conventional
	9	Function	Hydrogen Gas Detector
	10	Service	See Next Page
	11	Sensor Type	CatalyticType (HGD)
	12	Measuring Range/Calibration Range	VTA/ 0 - 100% LEL
	13	Accuracy	<+/-2 ppm
	14	Life Time	Typical 2 to 5 Years
	15	Response time	< 5 Seconds
	16	Alarm Range	High Level :5% LEL , High High Level:10% LEL
	17	Repeatability	VTA
	18	Output Signal	4~20 Ma+ Hart (signal+power)
	19	Power Supply	24 VDC-Loop powered
	20	System Wiring	3 wire
	21	Power Consumption	VTA (Note 8)
	22	Electrical Connection	M20 x 1.5
	23	Body and Housing Material	Epoxy coated die cast aluminum (copper free)
	24	Installation	Fix
	25	Mounting	Bracket (Note 5)
	26	Mounting Accessories Material	316 SS
	27	Degree of Protection	See Next Page
	28	Explosion Protection	See Next Page
	29	Weather Proof and Dust Proof	Yes
	30	Safety Integrity Level	Non SIL
	31	Certificate	Calibration, SIL, IEC 60529 (IP), ATEX , MATERIAL
	32	Nameplates Material	Stainless Steel
	33	Manufacturer	VTA
	34	Model No.	VTA

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- The gas detectors shall still work after an extended period in operation ,without any low concentration of the specific gas ,none at all.
- The response of a detector shall be clearly visible from the outside by a flashing light-emitting(LED) of sufficient brightness.
- The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
- Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands, other accessories (including splash guard, Calibration Kit, etc)
- Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.
- All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
- Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
- HGDs shall be capable to connect to Smart Hart Communication.
- The VENDOR shall provide the zero stability and the drift of the full-scale sensitivity, in % LFL (for Catalytic GD), per month and year,



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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

شماره صفحه: 17 از 27

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D04	0016	DT	IN	120	PEDCO	GCS	BK

HYDROGEN GAS DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT 	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	HGD-1101	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 65	Eexd 'Zone1, IIC T4	Hydrogen (related to the batteries)	
2	HGD-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 65	Eexd 'Zone1, IIC T4	Hydrogen (related to the batteries)	
5	calibration and test device for HGDs							NOTE 1

1. Calibration and test devices for HGDs to be advise by vendor.

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 	
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
	پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه	
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D04	شماره صفحه: 18 از 27

DATASHEET FOR MANUAL ALARM CALL POINT			
GENERAL	1	Tag No.	See Next Page
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	Function	Manual Alarm
	9	Service	See Next Page
	10	Glass Type	Resettable type
	11	Switch Type	Single pole, Normally Closed , Hermetically Sealed (equipped with opening key for test, maintenance and reset)
	12	Detector Type	Conventional/Addressable
	13	Alarm Indicator	High Intensity Red LED
	14	Output Signal	Voltage Free Contact (24VDC,5A)
	15	System Wiring	2 Core
	16	Test Key	Required
	17	Power Supply	24 VDC-Loop powered
	18	Electrical Connection	M20 x 1.5
	19	Body and Housing Material	Epoxy coated die cast aluminum (copper free)
	20	Colour	Red With Black Marking Colour
	21	End of Line Resistor	Yes
	22	Mounting	Bracket (Note 2)
	23	Mounting Accessories Material	316 SS
	24	Degree of Protection	See Next Page
	25	Explosion Protection	See Next Page
	26	Safety Integrity Level	Non SIL
	27	Certificate	IEC 60529 (IP), ATEX , BSI EN54-11
	28	Nameplates Material	Stainless Steel
	29	Manufacturer	VTA
	30	Model No.	VTA

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Mounting Accessories, cable gland, sunshade are included in vendor scope of supply.
3. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.

MANUAL ALARM CALL POINT LIST									
ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS	
1	MAC-1001	Area 1 - Pig Receiver Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
2	MAC-1002	Area 1 - Pig Receiver Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
3	MAC-2001	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
4	MAC-2002	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
5	MAC-2003	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
6	MAC-3001	Area 3 - Chemical Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
7	MAC-4001	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
8	MAC-4002	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
9	MAC-5001	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
10	MAC-5002	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
11	MAC-6001	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
12	MAC-6002	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
13	MAC-7001	Area 7 - Lean Glycol Storage Tank & Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
14	MAC-7002	Area 7 - Lean Glycol Storage Tank & Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
15	MAC-8001	Area 8 - Fuel Oil Storage Drum & Fire Water Storage Tanks & Air Compressor /Air Dryer Packages Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
16	MAC-8002	Area 8 - Fuel Oil Storage Drum & Fire Water Storage Tanks & Air Compressor /Air Dryer Packages Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
17	MAC-8003	Area 8 - Fuel Oil Storage Drum & Fire Water Storage Tanks & Air Compressor /Air Dryer Packages Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
18	MAC-9001	Area 9 - Diesel Generator Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional	
19	MAC-1101	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Outdoor	IP 65	Eexd Zone1, IIC T4	Hydroen (related to the batteries)	Conventional	
20	MAC-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable	
21	MAC-1103	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable	
22	MAC-1104	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable	
23	MAC-1105	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable	
24	MAC-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable	
25	MAC-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable	
26	MAC-1203	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (5 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable	
27	MAC-1301	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable	
28	MAC-1302	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (6 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable	
29	MAC-1401	Ware house	BK-GCS-PEDCO-120-IN-PY-0006 (7 of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable	
30									
31									
32		calibration and test device for MACs							NOTE 1

1. Calibration and test devices for MACs to be advise by vendor.

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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	DT	0016	D04
							شماره صفحه: 20 از 27	

DATASHEET FOR LINEAR HEAT DETECTOR

GENERAL	1 Tag No.	See Next Page
	2 Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3 Design Relative Humidity Min / Max (%)	0~ 100 (%)
	4 Atmospheric Condition	Non-Acidic, Harsh and Dusty
	5 Area Classification	See Next Page
	6 F&G Location Layout No.	See Next Page
	7 Location of Installation	See Next Page
DETECTOR	8 Detector Type	Addressable/ 'Conventional
	9 Function	Heat Detection
	10 Service	See Next Page
	11 Sensor Type	Two Twisted Steel Conductors with Heat Sensitive Polymer Coated
	12 Outer Sheath Material	PVC or Chemical Resistant Nylon (VTA)
	13 Overall Diameter (mm)	3.5 ~ 4.5 mm (VTA)
	14 Alarm Temperature	85°C
	15 Temperature Rise	8 °C Perminute
	16 Cable Length	15 m(VTA)
	17 Output Signal	Digital 0-24VDC
	18 Power Supply	24 VDC-Loop powered
	19 System Wiring	2 Core x 1.5
	20 Electrical Connection	M20 x 1.5
	21 Body and Housing Material	Epoxy coated die cast aluminum (copper free)
	22 Installation	Fix
	23 Mounting	Electrical Transformer Surface Mounted
	24 Mounting Accessories Material	VTA
	25 Degree of Protection	See Next Page
	26 Explosion Protection	See Next Page
	27 Weather Proof and Dust Proof	Yes
	28 Safety Integrity Level	Non SIL
	29 Certificate	IEC 60529 (IP), ATEX , MATERIAL
	30 Nameplates Material	Stainless Steel
	31 Manufacturer	VTA
	32 Model No.	VTA

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- Mounting Accessories, shelter and cable gland are included in vendor scope of supply.
- All devices shall have stainless steel tag plate with their tag no. engraved on it which is fixed on the body.
- All required mounting & Termination accessories to be provided by vendor.
- Junction box (EXE type) as per Linear Heat detectors and internal cabling/cable gland for connection to junction box are included in vendor scope of supply.





نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

0394

مستند سازی

صادر کنندہ

تسهلات

و شته

نوع مدرک

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شماره صفحه: 21 از 27

LINEAR HEAT DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	LHD-7001	Area 7 - Lean Glycol Storage Tank & Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
2	LHD-7002	Area 7 - Lean Glycol Storage Tank & Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
3	LHD-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (5of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
4	LHD-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (5of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
5	LHD-1203	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (5of 7)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
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18								
19	calibration and test device for LHDs							NOTE 1

1. Calibration and test devices for LHDs to be advise by vendor.

 NISOC	تکمیل و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک						 	
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
شماره پیمان: 053 - 073 - 9184	پروژه: BK	بسته کاری: GCS	صادر کننده: PEDCO	تجهیزات: 120	رشته: IN	نوع مدارک: DT	سریال: 0016 نسخه: D04	شماره صفحه: 27 از 22

DATASHEET FOR SMOKE DETECTOR/HEAT & SMOKE DETECTOR		
GENERAL	1	Tag No.
	2	Ambient Temperature Min / Max (°C)
	3	Design Relative Humidity Min / Max (%)
	4	Atmospheric Condition
	5	Area Classification
	6	F&G Location Layout No.
	7	Location of Installation
DETECTOR	8	Detector Type
	9	Function
	10	Service
	11	Sensor Type
	12	Rate of Rise(ROR)
	13	Built-in-Test
	14	Area Coverage
	15	Operating Temperature
	16	Alarm Set point
	17	Output Signal
	18	Power Supply
	19	System Wiring
	20	Contact Type & Rating
	21	Power Consumption
	22	Electrical Connection
	23	Body and Housing Material
	24	Installation
	25	Sampling Frequency
	26	Mounting
	27	Mounting Accessories Material
	28	Degree of Protection
	29	Explosion Protection
	30	Weather Proof and Dust Proof
	31	Safety Integrity Level
	32	Certificate
	33	Sensitivity Adjustable Required
	34	Indicator
	35	Nameplates Material
	36	Manufacturer
	37	Model No.

Notes :

1. VTA : Vendor To Advise. VTC : Vendor To Confirm N/A : Not Applicable
2. Detectors shall have an inherently stable operation with built in compensation being impaired by dust, dirt or humidity.
3. All circuitry must be protected against electrical transients and electromagnetic interferences.
4. Faulty zone wiring shall not damage the detector.
5. A Built in barrier shall prevent entry of insects in the sensors.
6. Mounting Accessories, cable gland, end of line resistor are included in vendor scope of supply.
7. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
8. Remote Indicator For False Ceiling /False Floor Smoke detector shall be considered.

 NISOC	تکه‌داشت و افزایش تولید میدان نفتی بینک سطح‌الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							 
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
	پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه
BK	GCS	PEDCO	120	IN	DT	0016	D04	

DATASHEET FOR BELL									
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GENERAL	1	Tag No.	See Next Page
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
	4	Atmospheric Condition	Non-Acidic, Harsh and Dusty
	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	System Type	See Next Page
	9	Sound Pressure Level	80 dB (At 1 meter) (VTA)
	10	Service	See Next Page
	11	Adjustable Sound Intensity	Yes
	12	Adjustable Sound In Intensity	Yes
	13	No. of Selectable Tones	Minimum 2
	14	Power Supply	24 VDC-Loop powered
	15	System Wiring	2 Core x 1.5
	16	Power Consumption	VTA (Note 4)
	17	Electrical Connection	M25 x 1.5
	18	Body and Housing Material	Epoxy coated die cast aluminum (copper free)
	19	Installation	Fix
	20	Mounting	Wall mounted (Note 2)
	21	Mounting Accessories Material	316 SS
	22	Degree of Protection	See Next Page
	23	Explosion Protection	See Next Page
	24	Weather Proof and Dust Proof	Yes
	25	Safety Integrity Level	Non SIL
	26	Certificate	IEC 60529 (IP), ATEX , BSI EN54-3
	27	Nameplates Material	Stainless Steel
	28	Manufacturer	VTA
	29	Model No.	VTA

Notes : 1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable 2. Vendor shall specify weight, color and dimentions of devices and accessories. 3. Mounting Accessories, sunshade and cable gland are included in vendor scope of supply. 4. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body. 5. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.			
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NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تجهیزات

120

رشته

IN

نوع مدرک

DT

سریال

0016

نسخه

D04

شماره صفحه: 25 از 27

BELL LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	BL-1101	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2 of 7)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
3								
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12								
13								
14								
15	calibration and test device for Bells							NOTE 1

1. Calibration and test devices for Bells to be advise by vendor.

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک					 		
	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT							
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	DT	0016	D04

شماره صفحه: 26 از 27

DATASHEET FOR HEAT DETECTOR		
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GENERAL	1	Tag No.	See Next Page
	2	Ambient Temperature Min / Max (°C)	-5 ~ 50 (°C)
	3	Design Relative Humidity Min / Max (%)	0~ 100 (%)
	4	Atmospheric Condition	Non-Acidic
	5	Area Classification	See Next Page
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	Detector Type	See Next Page
	9	Function	Heat Detector
	10	Service	Ceiling heat detection
	11	Sensor Type	Heat Sensing Element: Fusible Alloy Silver Contact
	12	Rate of Rise(ROR)	Yes (Temperature Rise: 8 °C Perminute)
	13	Built-in-Test	Manual
	14	Area Coverage	37 m²
	15	Operating Temperature	-10 °C to 90 °C
	16	Alarm Set point	VTC
	17	Output Signal	VTA
	18	Power Supply	24 VDC-Loop powered
	19	System Wiring	2 Core x 1.5
	20	Contact Type & Rating	24 VDC, DPDT
	21	Power Consumption	VTA (Note 7)
	22	Electrical Connection	M20 x 1.5
	23	Body and Housing Material	Epoxy coated die cast aluminum (copper free)
	24	Installation	Fix
	25	Sampling Frequency	VTA
	26	Mounting	Under false Ceiling (Note 6)
	27	Mounting Accessories Material	VTA
	28	Degree of Protection	See Next Page
	29	Explosion Protection	See Next Page
	30	Weather Proof and Dust Proof	Yes
	31	Safety Integrity Level	Non SIL
	32	Certificate	IEC 60529 (IP), ATEX , MATERIAL
	33	Sensitivity Adjustable Required	Yes
	34	Indicator	2 LED Indication for local display and also a Remote Indicator for False Ceiling / False Floor application.
	35	Nameplates Material	Stainless Steel
	36	Manufacturer	VTA
	37	Model No.	VTA

- Notes :
1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
 2. Detectors shall have an inherently stable operation with built in compensation being impaired by dust, dirt or humidity.
 3. All circuitry must be protected against electrical transients and electromagnetic interferences.
 4. Faulty zone wiring shall not damage the detector.
 5. A Built in barrier shall prevent entry of insects in the sensors.
 6. Mounting Accessories, cable gland, end of line resistor are included in vendor scope of supply.
 7. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
 8. Remote Indicator For False Ceiling /False Floor Heat detector shall be considered.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073 - 9184

پروژه

سته کاری

صادر کنندہ

تسهيلات

روسته

ممدوڪ

سویاں

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شماره صفحه: 27 از 27

HEAT DETECTOR LIST

[illegible]

	1. Calibration and test devices for LHDs to be advise by vendor.
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