

 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: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری GCS	صادر کننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0016	نسخه D02	شماره صفحه: ۱ از ۲۷

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

نگهداشت و افزایش تولید میدان نفتی بینک

D02	FEB.2024	IFA	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
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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



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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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0016

نسخه

D02

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT									
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۳ از ۲۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0016	D02		

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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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

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه	شماره پیمان:
D02	0016	DT	IN	120	PEDCO	GCS	BK	۰۵۳ - ۰۷۳ - ۹۱۸۴

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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 olate including project description to be provided.
- 4- Low power consumption to be considered. Q



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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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تهیهات

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شماره صفحه: ۵ از ۲۷

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۶ از ۲۷
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DATASHEET FOR FLAMMABLE GAS 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, 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	Flammable Gas Detector (HC)
	9	Service	See Next Page
	9	Case Color	Red
	10	Detector Type	Conventional
	11	Sensor Type	Infra Red (IR)
	12	Covering Range	75 m2
	13	Accuracy	< +/-3% Full Scale
	14	Detection Range 	0 to 100% LEL with 2 digital Auxiliary switch for L/H alarm signals
	15	Repeatability	<±2% of Full Scale
	16	Response time	<5 Sec
	17	Life Time	More than 5 Years
	18	Output Signal	4~20 mA
	19	System Wiring	3 wire
	20	Local Indicator LCD Type	Yes
	21	Built-in-Test	Manual and Automatic
	22	Power Supply	24 VDC-Loop powered
	23	Power Consumption	VTA (Note 8)
	24	Electrical Connection	M20 x 1.5
	25	Body and Housing Material	Epoxy coated die cast aluminum(copper free)
	26	Mounting	Bracket (Note 5)
	27	Mounting Accessories Material	316 SS
	28	Degree of Protection	See Next Page
	29	Explosion Protection	See Next Page
	30	Safety Integrity Level	See Next Page
	31	Certificate	Calibration, SIL, IEC 60529 (IP), ATEX , MATERIAL
	32	Nameplates	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 ,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.
- FGDs shall be capable to connect to Smart Hart Communication.



نگهداشت و افزایش تولید میدان نفتی بینک
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DATA SHEETS FOR E&G DETECTORS & EQUIPMENT

شماره پیمان:

• 53 - • 73 - 9184

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FLAMMABLE GAS DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SIL	SERVICE	REMARKS
1	FGD-1001	Area 1 - Pig Receiver Area	BK-GCS-PEDCO-120-IN-PY-0005 (4 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
2	FGD-2001	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
3	FGD-2002	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
4	FGD-2003	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
5	FGD-2004	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
6	D02 FGD-3001	Area 3 - Chemical Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (6 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
7	FGD-4001A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
8	FGD-4002A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
9	FGD-4003A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
10	FGD-4004A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
11	FGD-4001B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
12	FGD-4002B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
13	FGD-4003B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
14	FGD-4004B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
15	FGD-4001C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
16	FGD-4002C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
17	FGD-4003C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
18	FGD-4004C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
19	FGD-5001A	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (8 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
20	FGD-5001B	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (8 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
21	FGD-5001C	Area 5 - 1St. & 2nd Stage Air Cooler Area	BK-GCS-PEDCO-120-IN-PY-0005 (8 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
22	FGD-6001	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
23	FGD-6002	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
24	FGD-6003	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
25	FGD-7001	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
26	FGD-7002	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
27	FGD-7003	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (10 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
28	D02 FGD-1101	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
29	D02 FGD-1102	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
30	D02 FGD-1103	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
31	FGD-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
32	FGD-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
33	FGD-1203	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
34	Calibration and test device for Flammable Gas Detectors								NOTE 1

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								
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شماره صفحه: ۸ از ۲۷								

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
	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	See Next Page
	30	Certificate	Calibration, SIL, IEC 60529 (IP), ATEX , MATERIAL
	31	Nameplates	Stainless Steel
	32	Manufacturer	VTA
	33	Model No.	VTA

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. The gas detectors shall still work after an extended period in operation ,without any low concentration of the specific gas ,not at all.
3. The response of a detector shall be clearly visible from the outside by a flashing high-emitting(LED) of sufficient brightness.
4. The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
5. Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands,shelter, other accessories (including splash guard, Calibration Kit, etc)
6. Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.
7. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
8. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
9. 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.
10. TGDs shall be capable to connect to Smart Hart Communication.

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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: ۱۰ از ۲۷
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DATASHEET FOR FLAME DETECTOR		
GENERAL	1	Tag No.
	1	Ambient Temperature Min / Max (°C)
	2	Design Relative Humidity Min / Max (%)
	3	Atmospheric Condition
	6	F&G Location Layout No.
	4	Area Classification
	5	Location of Installation
DETECTOR	6	Function
	7	Service
	8	Detector Type
	9	Sensor Type
	10	Spectral Response
	11	Field of Vision
	12	Range (m)
	13	Sensitive wave length
	14	Response time
	15	Output Signal
	16	System Wiring
	17	Built-in-Test
	18	Power Supply
	19	Power Consumption
	20	Electrical Connection
	21	Body and Housing Material
	22	Mounting
	23	Mounting Accessories Material
	24	Degree of Protection
	25	Explosion Protection
	26	Safety Integrity Level
	27	Certificate
	28	Nameplates
	30	Manufacturer
	31	Model No.

Notes :

1. VTA : Vendor To Advice. 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.



احداث ردیف تا یکم گاز در استگاه جمع آوری سنک



DATA SHEETS FOR E&G DETECTORS & EQUIPMENT

شماره پیمان:

• 53 - • 73 - 9184

شماره ۵ صفحه: ۱۱ از ۲۷

FLAME DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SIL	SERVICE	REMARKS
1	FD-2001	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
2	FD-2002	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
3	FD-2003	Area 2 - Slug Catcher System Area	BK-GCS-PEDCO-120-IN-PY-0005 (5 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
4	FD-3001	Area 3 - Chemical Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (6 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
5	FD-4001A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
6	FD-4002A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
7	FD-4003A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
8	FD-4004A	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
9	FD-4001B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
10	FD-4002B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
11	FD-4003B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
12	FD-4004B	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
13	FD-4001C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
14	FD-4002C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
15	FD-4003C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
16	FD-4004C	Area 4 - 1St. & 2nd Stage Gas Compressor Area	BK-GCS-PEDCO-120-IN-PY-0005 (7 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	3	Hydrocarbon	
17	FD-6001	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
18	FD-6002	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
19	FD-7001	Area 7 - Lean Glycol Storage Tank &Dehydration Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
20	FD-8001	Area 8 - Air Compressor /Air Dryer Packages Area	BK-GCS-PEDCO-120-IN-PY-0005 (11 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
21	D02 FD-8002	Area 9 - Diesel Generator Area	BK-GCS-PEDCO-120-IN-PY-0005 (11 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	NON	Hydrocarbon	
22	Calibration and test device for Flame Detectors								NOTE 1

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



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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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

شماره صفحه: ۱۲ از ۲۷

پروژه

BK

بسته کاری

GCS

صادرکننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0016

نسخه

D02

DATASHEET FOR HORN

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	Function	Local Alarm with 2 modes: non-continuous for flammable and toxic gas detection low alarm • Continuous for fire detection & for flammable and toxic gas detection high alarm
	10	Sound Level 	not exceed 120dB (A) at 1 meter distance (VTA)
	11	Service	Hydrocarbon
	12	Adjustable Sound Intensity	Yes
	13	Frequency Range	VTA
	14	Multiple Terminal Connection	Required
	15	No. of Selectable Tones	Minimum 2
	16	Power Supply	24 VDC
	17	System Wiring	5 Core x 1.5
	18	Power Consumption	VTA (Note 4)
	19	Electrical Connection	M25 x 1.5(Note 9)
	20	Body and Housing Material	Epoxy coated die cast aluminum (copper free).
	21	Installation	Fix
	22	Mounting	Bracket (Note 2)
	23	Mounting Accessories Material	316 SS
	24	Degree of Protection	IP 65
	25	Explosion Protection	Eexd
	26	Weather Proof and Dust Proof	Yes
	27	Safety Integrity Level	Non SIL
	28	Certificate	IEC 60529 (IP), ATEX , BSI EN54-3
	29	Nameplates Material	Stainless Steel
	30	Manufacturer	VTA
	31	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. 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.



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

• 53 - • 73 - 9184

شماره صفحه: ۱۳ از ۲۷

پروژہ

کاری	
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صادر کنندہ

تسهيلات

روشته

ع مدرک

سریال

سرخه

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FLAME DETECTOR LIST

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

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



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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تهیهات

120

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DT

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0016

نسخه

D02

شماره صفحه: ۱۴ از ۲۷

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 (VTA)
	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 dimensions 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.



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تنگداشت 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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

پسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

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رشته

IN

نوع مدرک

DT

سریال

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نسخه

D02

شماره صفحه: ۱۶ از ۲۷

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	Analogue 4-20mA
	19	Power Supply	24 VDC (VTA)
	20	System Wiring	2 Core x 1.5
	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 :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. The gas detectors shall still work after an extended period in operation ,without any low concentration of the specific gas ,none at all.
3. The response of a detector shall be clearly visible from the outside by a flashing light-emitting(LED) of sufficient brightness.
4. The detector shall be designed in such a way that ambient conditions, humidity, temperature and wind can not affect the sensor signal.
5. Vendor scope of supply includes: Sensor, Transmitter, All Mounting Accessories, cable glands, other accessories (including splash guard, Calibration Kit, etc)
6. Calibration kit contained CALIBRATION GAS, CALIBRATION TOOL, TEST MAGNETS (if required) shall be considered.
7. All devices shall have stainless steel tag plate with their tag no engraved on it which is fixed on the body.
8. Low power consumption to be considered. Quiescence power consumption and alarm power consumption to be specified by vendor.
9. HGDs shall be capable to connect to Smart Hart Communication.
10. 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:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تجهیزات

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IN

نوع مدرک

DT

سریال

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نسخه

D02

شماره صفحه: ۱۷ از ۲۷

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 (2/6)	Indoor	IP 54	Eexia 'Zone1, IIC T4	Hydroen (related to the batteries)	
2	HGD-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Eexia 'Zone1, IIC T4	Hydroen (related to the batteries)	
3	HGD-1103	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Eexd- 'Zone1, IIC T4	Hydroen- (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.

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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0016	D02
شماره صفحه: ۱۸ از ۲۷								

DATASHEET FOR MANUAL ALARM CALL POINT		
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
	10	Glass Type
	11	Switch Type
	12	Detector Type
	13	Alarm Indicator
	14	Output Signal
	15	System Wiring
	16	Test Key
	17	Power Supply
	18	Electrical Connection
	19	Body and Housing Material
	20	Colour
	21	End of Line Resistor
	22	Mounting
	23	Mounting Accessories Material
	24	Degree of Protection
	25	Explosion Protection
	26	Safety Integrity Level
	27	Certificate
	28	Nameplates Material
	29	Manufacturer
	30	Model No.

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.



احداث ردیف تو اکھ گاز در ابستگاه جمع آوری سنک



شماره صفحہ: ۱۹؛ ۲۷

بیمان:

•AF-•YF-914F

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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 - Diesel Generator 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 - Diesel Generator Area	BK-GCS-PEDCO-120-IN-PY-0005 (3 of 12)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
17	MAC-9001	Area 9 - 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-9002	Area 9 - 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
19	MAC-1101	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Conventional
20	MAC-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Eexd Zone1, IIC T4	Hydroen (related to the batteries)	Addressable
21	MAC-1103	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
22	MAC-1104	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
23	MAC-1105	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
24	MAC-1106	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
25	MAC-1107	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
26	MAC-1108	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Conventional
27	MAC-1109	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
28	MAC-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
29	MAC-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
30	MAC-1203	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (5/6)	Outdoor	IP 65	Eexd Zone2, IIB T4	Hydrocarbon	Addressable
31	MAC-1301	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
32	MAC-1302	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
33	MAC-1303	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
34								
35								
36	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:	پروژه	بسته کاری	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0016	D02
شماره صفحه: ۲۰ از ۲۷								

DATASHEET FOR LINEAR HEAT 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	Outer Sheath Material
	13	Overall Diameter (mm)
	14	Alarm Temperature
	15	Temperature Rise
	16	Cable Length
	17	Output Signal
	18	Power Supply
	19	System Wiring
	20	Electrical Connection
	21	Body and Housing Material
	22	Installation
	23	Mounting
	24	Mounting Accessories Material
	25	Degree of Protection
	26	Explosion Protection
	27	Weather Proof and Dust Proof
	28	Safety Integrity Level
	29	Certificate
	30	Nameplates Material
	31	Manufacturer
	32	Model No.

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Mounting Accessories, shelter and cable gland 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.
4. All required mounting & Termination accessories to be provided by vendor.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تا کم گاز در ایستگاه جمع آوری سنک



DATA SHEETS FOR E&G DETECTORS & EQUIPMENT

شماره پیمان:

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شماره صفحه: ۲۱ از ۲۷

LINEAR HEAT DETECTOR LIST

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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	صادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۲۲ از ۲۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0016	D02	

DATASHEET FOR SMOKE DETECTOR/HEAT & SMOKE 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
	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
	9	Function	Smoke Detector
	10	Service	False floor/False ceiling / Ceiling smoke detection
	11	Sensor Type	Smoke Sensing Element : Optical type(scattered-light type or transmitted-light type detectors)
	12	Rate of Rise(ROR)	Yes (Temperature Rise: 8 °C Perminute)
	13	Built-in-Test	Manual
	14	Area Coverage	50 m²
	15	Operating Temperature	-10 °C to 90 °C
	16	Alarm Set point	VTC
	17	Output Signal	VTA
	18	Power Supply	24 VDC (VTA)
	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 floor/ 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
	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 trasients 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.			



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

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شماره صفحه: ۲۳ از ۲۷

شماره پیمان:

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DATA SHEETS FOR E&G DETECTORS & EQUIPMENT

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دسته کاری

صادو کنندہ

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شماره صفحه: ۲۳ از ۲۷

SMOKE DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	REMARKS
1	SD-1101	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
2	SD-1102	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
3	SD-1103	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
4	SD-1104	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
5	SD-1105	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
6	SD-1106	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
7	SD-1107	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
8	SD-1108	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
9	SD-1109	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
10	SD-1110	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
11	SD-1111	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
12	SD-1112	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
13	SD-1113	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
14	SD-1114	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
15	SD-1115	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
16	SD-1116	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
17	SD-1117	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
18	SD-1118	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
19	SD-1119	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
20	SD-1120	Extension of Existing Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	
21	SD-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	
22	SD-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	
23	SD-1203	Extension of Existing Elect. Building-False Floor	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	
24	SD-1204	Extension of Existing Elect. Building-False Floor	BK-GCS-PEDCO-120-IN-PY-0006 (4/6)	Indoor	IP 54	Unclassified	
25	SD-1301	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
26	SD-1302	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
27	SD-1303	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
28	SD-1304	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
29	SD-1305	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
30	SD-1306	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
31	SD-1307	CCTV Control Room	BK-GCS-PEDCO-120-IN-PY-0006 (6/6)	Indoor	IP 54	Unclassified	
32	calibration and test device for SDs						NOTE 1

	1. Calibration and test devices for SDs to be advise 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:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه
۰۵۳ - ۰۰۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0016	D02
شماره صفحه: ۲۴ از ۲۷								

DATASHEET FOR BELL		
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	System Type
	9	Sound Pressure Level
	10	Service
	11	Adjustable Sound Intensity
	12	Adjustable Sound In Intensity
	13	No. of Selectable Tones
	14	Power Supply
	15	System Wiring
	16	Power Consumption
	17	Electrical Connection
	18	Body and Housing Material
	19	Installation
	20	Mounting
	21	Mounting Accessories Material
	22	Degree of Protection
	23	Explosion Protection
	24	Weather Proof and Dust Proof
	25	Safety Integrity Level
	26	Certificate
	27	Nameplates Material
	28	Manufacturer
	29	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. 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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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تجهیزات

120

رشته

IN

نوع مدرک

DT

سریال

0016

نسخه

D02

شماره صفحه: ۲۵ از ۲۷

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 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	
2	 BL-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Indoor	IP 54	Unclassified	Hydrocarbon	
3								
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11								
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13								
14								
15	calibration and test device for Bells							NOTE 1

1. Calibration and test devices for Bells 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: ۲۶ از ۲۷
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	GCS	PEDCO	120	IN	DT	0016	D02	

DATASHEET FOR 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
	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 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 (VTA)
	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
	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 trasients 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.			



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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

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HEAT DETECTOR LIST

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