

 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	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0016	نسخه D01	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

D01	OCT.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	MAY.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

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:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D01	0016	DT	IN	120	PEDCO	GCS	BK

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REVISION RECORD SHEET

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5	X	X			
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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:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0016

نسخه

D01

شماره صفحه: 3 از 27

REFERENCE 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

D01

F&G Cause and Effect Diagram For Buildings

BK-GCS-PEDCO-120-IN-DG-0010

D01



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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:

053 - 073 – 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0016

نسخه

D01

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. Q

 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
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01
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DATASHEET FOR TOXIC GAS DETECTOR		8
TOXIC GAS DETECTOR LIST		9
DATASHEET FOR FLAME DETECTOR		10
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DATASHEET FOR MANUAL ALARM CALL POINT		18
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HEAT DETECTOR LIST		27

 NISOC	 گروه تخصصی تولیدات  HIRGAN ENERGY  T3 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	تهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	GCS	PEDCO	120	IN	DT	0016	D01
شماره صفحه: 27 از 6								

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
	10	Case Color
	11	Detector Type
	12	Sensor Type
	13	Covering Range
	14	Accuracy
	15	Alarm Range
	16	Repeatability
	17	Response time
	18	Life Time
	19	Output Signal
	20	System Wiring
	21	Local Indicator LCD Type
	22	Built-in-Test
	23	Power Supply
	24	Power Consumption
	25	Electrical Connection
	26	Body and Housing Material
	27	Mounting
	28	Mounting Accessories Material
	29	Degree of Protection
	30	Explosion Protection
PURCHASE	31	Safety Integrity Level
	32	Certificate
	33	Nameplates
	34	Manufacturer
	35	Model No.
	36	

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 supplied by vendor.
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. FGDs shall be capable to connect to Smart Hart Communication.



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تو اکم گاز در ایستگاه جمع آوری سنک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073-9184

شماره صفحه: 7 از 27

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تسهيلات

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FLAMMABLE GAS DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	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	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	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	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	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	Hydrocarbon	
6	FGD-3001	Area 3 - Chemical Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (6 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Hydrocarbon	
28	FGD-1101	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
29	FGD-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
30	FGD-1103	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	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	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	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	Hydrocarbon	
34	Calibration and test device for Flammable Gas Detectors							NOTE 1

1. Calibration and test devices for Flammable Gas Detectors to be supplied 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 D01	شماره صفحه: 27 از 8

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	SIL 3 
	30	Certificate	Calibration, SIL, IEC 60529 (IP), ATEX , MATERIAL
	31	Nameplates	Stainless Steel
PURCHASE	32	Manufacturer	Will be finalized later 
	33	Model No.	Will be finalized later 
	34		

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 ligh-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 besupplied by vendor.			
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.			



احداث ردیف تہ اکھ گاز در ایستگاه جمع آوری سنک



شماره صفحہ: 9؛ 27

شماره ۵ بهمان:

053 - 073 - 9184

DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

0394

کارگی

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تسهيلات

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نام و نام خانوادگی

نسخه

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	Eexia 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	Eexia 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	Eexia 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	Eexia 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	Eexia Zone2, IIB T4	Hydrocarbon	
6	TGD-3001	Area 3 - Chemical Package Area	BK-GCS-PEDCO-120-IN-PY-0005 (6 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
7	TGD-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	Hydrocarbon	
8	TGD-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	Hydrocarbon	
9	TGD-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	Hydrocarbon	
10	TGD-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	Hydrocarbon	
11	TGD-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	Hydrocarbon	
12	TGD-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	Hydrocarbon	
13	TGD-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	Hydrocarbon	
14	TGD-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	Hydrocarbon	
15	TGD-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	Hydrocarbon	
16	TGD-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	Hydrocarbon	
17	TGD-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	Hydrocarbon	
18	TGD-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	Hydrocarbon	
19	TGD-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	Hydrocarbon	
20	TGD-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	Hydrocarbon	
21	TGD-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	Hydrocarbon	
22	TGD-6001	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
23	TGD-6002	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
24	TGD-6003	Area 6 - Sump & Pig Launcher Area	BK-GCS-PEDCO-120-IN-PY-0005 (9 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
25	TGD-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	Hydrocarbon	
26	TGD-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	Hydrocarbon	
27	TGD-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	Hydrocarbon	
28	TGD-1101	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
29	TGD-1102	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
30	TGD-1103	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
31	TGD-1201	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
32	TGD-1202	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
33	TGD-1203	Extension of Existing Elect. Building	BK-GCS-PEDCO-120-IN-PY-0006 (3/6)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
34	Calibration and test device for Toxic Gas Detectors							NOTE 1

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

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

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- 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, test lamp (with charger),Status Indicator (LED with status, fault and alarm indication) , test magnets (if required).
- Vendor shall consider specific requirement for proper operation of detector according to ambient humidity if required.
- 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.
- FDs shall be capable to connect to Smart Hart Communication.



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DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

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جستہ کاری

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نوع مدرک

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نسخه

شماره صفحه: 11 از 27

FLAME DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Hydrocarbon	
20	 FD-8001	Area 8 - Diesel Generator Area	BK-GCS-PEDCO-120-IN-PY-0005 (11 of 12)	Outdoor	IP 65	Eexia Zone2, IIB T4	Hydrocarbon	
21		Calibration and test device for Flame Detectors						NOTE 1

1. Calibration and test devices for Flame Detectors to be supplied 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: 27 از 12
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01	

DATASHEET FOR HORN		
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	Function
	10	Sound Pressure 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
PURCHASE	30	Manufacturer
	31	Model No.
	32	

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. Vendor scope of supply includes: Mounting Accessories, sunshade and cable gland.
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. Horn and related beacons(Red/Blue) shall be installed on common stand. Eex JB for connectig 10*1.5 mm2 cable to be considered by vendor for signal distribution.



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

شماره پیمان:

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شماره صفحه: 13 از 27

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FLAME DETECTOR LIST

 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	پسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 14 از 27
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01	

DATASHEET FOR BEACON			
GENERAL	1	Tag No.	See Next Page
	2	Ambient Temprature 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 and flammable gas 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	See Next Page 
	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
PURCHASE	32	Manufacturer	Will be finalized later 
	33	Model No.	Will be finalized later 
	34		

Notes :

- VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
- Vendor shall specify weight, color and dimentions of devices and accessories.
- The value of End Of Line (EOL) resistor shall be suggested by vendor.
- Vendor scope of supply includes: Mounting Accessories, sunshade and cable gland.
- 2 different colors to be selected for lights of beacon:
 • Red for fire and flammable gas detection
 • Blue for Toxic Gas Detector(if applicable)
- 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.
- Horn and related beacons(Red/Blue) shall be installed on common stand. Eex JB for connectig 10*1.5 mm2 cable to be considered by vendor for signal distribution.

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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: 16 از 27
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DATASHEET FOR HYDROGEN 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	System Type
	9	Function
	10	Service
	11	Sensor Type
	12	Measuring Range
	13	Accuracy
	14	Life Time
	15	Response time
	16	Alarm Range
	17	Repeatability
	18	Output Signal
	19	Power Supply
	20	System Wiring
	21	Power Consumption
	22	Electrical Connection
	23	Body and Housing Material
	24	Installation
	25	Mounting
	26	Mounting Accessories Material
	27	Degree of Protection
	28	Explosion Protection
	29	Weather Proof and Dust Proof
	30	Safety Integrity Level
	31	Certificate
	32	Nameplates Material
PURCHASE	33	Manufacturer
	34	Model No.
	35	

- 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.



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:

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پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تجهیزات

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رشته

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نوع مدرک

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سریال

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نسخه

D01

شماره صفحه: 17 از 27

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	Eexd '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	Eexd '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 supplied by vendor.

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	DATA SHEETS FOR F&G DETECTORS & EQUIPMENT								
	شماره پیمان:	پروژه	بسته کاری	مادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01	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 (VTA)
	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	See Next Page 
27	Certificate	IEC 60529 (IP), ATEX , BSI EN54-11	
28	Nameplates Material	Stainless Steel	
PURCHASE	29	Manufacturer	Will be finalized later 
	30	Model No.	Will be finalized later 
	31		

Notes :

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



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:	پروژه	بسته کاری
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پرؤه	بسته کاری
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تسهيلات

نوع مدرّس	
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نسخه

27 :1

شماره صفحه: 19 از 27

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

NOTE 1

 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 صفحه: 20 از 27
	شماره پیمان:	پروژه	بسته کاری	مادرکننده	تجهیزات	رشته	نوع مدرک	سریال	
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DATASHEET FOR LINEAR HEAT DETECTOR		
GENERAL	1	Tag No.
	2	Ambient Temptrature 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 Lentgh
	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
PURCHASE	27	Weather Proof and Dust Proof
	28	Safety Integrity Level
	29	Certificate
	30	Nameplates Material
	31	Manufacturer
	32	Model No.
	33	

Notes :

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable

2. Vendor scope of supply includes:Mounting Accessories, shelter and cable gland.

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 تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR F&G DETECTORS & EQUIPMENT

شماره پیمان:

053 - 073-9184

پروژه

مستند کاری

صادرکننده

تسهيلات

بسته

ع مدرك

سریال

مخ

شماره صفحه: 21 از 27

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	مادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01	شماره صفحه: 22 از 27

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
PURCHASE	36	Manufacturer
	37	Model No.
	38	

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. Vendor scope of supply includes: Mounting Accessories, cable gland, end of line resistor.
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.



احداث ردیف تراکم گاز در ایستگاه جمع آوری پینک



شماره ۵ صفحه ۴۴: ۲۳؛ ۲۷

ماره پیمان:

053 - 073 - 9184

1. Calibration and test devices for SDs to be supplied 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	صادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 24 از 27
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01	

DATASHEET FOR BELL			
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 (VTA)
	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
PURCHASE	28	Manufacturer	Will be finalized later
	29	Model No.	Will be finalized later
	30		

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. Vendor scope of supply includes: Mounting Accessories, sunshade and cable gland .
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.



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

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نوع مدرک

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سریال

0016

نسخه

D01

شماره صفحه: 25 از 27

BELL LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	BL-1101	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	BL-1103	Control Building	BK-GCS-PEDCO-120-IN-PY-0006 (2/5)	Indoor	IP 54	Unclassified	Hydrocarbon	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16	calibration and test device for Bells							NOTE 1

1. Calibration and test devices for Bells to be supplied 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	مادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	GCS	PEDCO	120	IN	DT	0016	D01	شماره صفحه: 26 از 27

 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	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	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	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	SIL 3
	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
PURCHASE	36	Manufacturer	Will be finalized later 
	37	Model No.	Will be finalized later 
	38		

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. Vendor scope of supply include: All mounting accessories, cable glands, other accessories (including, Calibration Kit, etc)
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.



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

053 - 073 - 9184

شماره صفحه: 27 از 27

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صادرکننده

تسهيلات

5

وع مدرک

سریال

نسخه

27:42

D01

1. Calibration and test devices for HDs to be suppliedby vendor.
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