

 <b>NISOC</b>	<div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>فعالیت های رو زمینی در بسته های کاری تحت الارض</div> <div>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات</div> <div>برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</div>							 	
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0010	D01	شماره صفحه: 1 از 21

## طرح نگهداشت و افزایش تولید 27 مخزن

### DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD

#### نگهداشت و افزایش تولید میدان نفتی بینک

D01	JAN.2023	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	SEP.2022	IFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	Client Approval

Class: 1

Client Doc. Number: F9Z-707980

status: IDC: Inter-Discipline Check

IFC: Issued For Comment

IFA: Issued For Approval

AFD: Approved For Design

AFC: Approved For Construction

AFP: Approved For Purchase

AFQ: Approved For Quotation

IFI: Issued For Information

AB-R: As-Built for CLIENT Review

AB-A: As-Built –Approved



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک  
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات  
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD



شماره پیمان:

053 - 073 - 9184



نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D01	0010	DT	IN	110	PEDCO	W007S	BK

شماره صفحه: 21 از 21

## REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X			
2	X	X			
3	X				
4	X				
5	X				
6	X	X			
7	X				
8	X	X			
9	X	X			
10	X	X			
11	X				
12	X	X			
13	X				
14	X	X			
15	X				
16	X	X			
17	X	X			
18	X	X			
19	X				
20	X	X			
21	X				
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					

Page	D00	D01	D02	D03	D04
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					
109					
110					
111					
112					
113					
114					
115					
116					
117					
118					
119					
120					
121					
122					
123					
124					
125					
126					
127					
128					



 <b>NISOC</b>	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات</p> <p>برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p>								
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 21
053 - 073 - 9184	BK	W007S	PEDCO	110	IN	DT	0010	D01	

### **REFERENCE DOCUMENTS :**

F&G LOCATION LAYOUT - EXTENSION OF BINAK BC MANIFOLD	BK-W007S-PEDCO-110-IN-PY-0005
FIRE AND GAS DETECTION DESIGN CRITERIA	BK-SSGRL-PEDCO-110-IN-DC-0001
SPECIFICATION FOR FIRE & GAS SENSOR AND DEVICES	BK-GNRAL-PEDCO-000-IN-SP-0009


### **GENERAL NOTE**

- 1 Refer to latest version of reference documents.




 <b>NISOC</b>	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات</p> <p>برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p>								
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری W007S	صادر کننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک DT	سریال 0010	نسخه D01	شماره صفحه: 4 از 21

#### 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.

 <b>NISOC</b>		<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات</p> <p>برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p> <p>DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD</p>							
شماره پیمان:  053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 15 از 21
	BK	W007S	PEDCO	120	IN	DT	0010	D01	

CONTENTS	
ITEMS	PAGES
DATASHEET FOR HORN	6
HORN DETECTOR LIST	7
DATASHEET FOR BEACON	8
BEACON LIST	9
DATASHEET FOR HYDROGEN GAS DETECTOR	10
HYDROGEN GAS DETECTOR LIST	11
DATASHEET FOR MANUAL ALARM CALL POINT	12
MANUAL ALARM CALL POINT LIST	13
DATASHEET FOR LINEAR HEAT DETECTOR	14
LINEAR HEAT DETECTOR LIST	15
DATASHEET FOR SMOKE DETECTOR	16
SMOKE DETECTOR LIST	17
DATASHEET FOR BELL	18
BELL LIST	19
DATASHEET FOR HEAT DETECTOR	20
HEAT DETECTOR LIST	21

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک						 		
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان: 053 - 073 - 9184	پروژه: BK	بسته کاری: W007S	صادر کننده: PEDCO	تسهیلات: 110	رشته: IN	نوع مدرک: DT	سریال: 0010	نسخه: D01	شماره صفحه: 6 از 21

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
PURCHASE DATA	27	Safety Integrity Level
	28	Certificate
	29	Nameplates Material
	30	Manufacturer
	31	Model No.

**Notes :**

1. VTA : Vendor To Advice. VTC : Vendor To Confirm N/A : Not Applicable
2. Vendor shall specify weight, color and dimentions of devices and accessories.
3. The value of End Of Line (EOL) resistor shall be suggested by vendor.
4. Mounting Accessories, sunshade and cable gland are included in vendor scope of supply.
5. 2 different tones one for Flammable/ Toxic gas detection (non-continuous) and one for fire detection (continuous). Each tone shall be activated by receiving 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 beacon(Red) shall be installed on common stand. Eex JB for connectig 5\*1.5 mm2 cable to be considered by vendor for signal distribution.



ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق‌رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184



شماره صفحه: 7 از 21

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادر کننده	بسته کاری	پروژه
D01	0010	DT	IN	120	PEDCO	W007S	BK

## FLAME DETECTOR LIST


[illegible]

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

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک								
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 8 از 21
053 - 073 - 9184	BK	W007S	PEDCO	120	IN	DT	0010	D01	

DATASHEET FOR BEACON		
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	System Type
	9	Service
	10	Function
	11	Flash Rate
	12	Colour
	13	Lens Type
	14	Field of View
	15	Tube type
	16	Effective Intensity
	17	Power Supply
	18	System Wiring
	19	Power Consumption
	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	Body Color
	31	Nameplates Material
PURCHASE DATA	32	Manufacturer
	33	Model No.

**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.
- Mounting Accessories, sunshade and cable gland are included in vendor scope of supply.
- 3 different colors to be selected for lights of beacon: 
- Red for fire detection
- Yellow for 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 beacon(Red) shall be installed on common stand. Eex JB for connectig 5\*1.5 mm2 cable to be considered by vendor for signal distribution.





ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق‌رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک






DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD




شماره پیمان:

053 - 073 - 9184

شماره صفحه: 9 از 21

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

 <b>NISOC</b>		<div></div> <p>نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p>								
		DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 10 از 21	
053 - 073 - 9184	BK	W007S	PEDCO	120	IN	DT	0010	D01		

DATASHEET FOR HYDROGEN GAS DETECTOR			
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	Addressable 
	9	Function	Hydrogen Gas Detector
	10	Service	See Next Page
	11	Sensor Type	Electrochemical Type (H2S)
	12	Measuring Range	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
	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
PURCHASE DATA	33	Manufacturer	will be finalized later 
	34	Model No.	will be finalized later 

# Notes :

1. VTA : Vendor To Advise. 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  
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات  
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

نوع مدرک

DT

سریال

0010

نسخه




D01

شماره صفحه: 11 از 21

## HYDROGEN GAS DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	HGD-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Eexd 'Zone1, IIC T4	Hydroen (related to the batteries)	
2	HGD-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Eexd 'Zone1, IIC T4	Hydroen (related to the batteries)	
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20	calibration and test device for HGDs							NOTE 1

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

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، ترمینال برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک						 			
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD									
053 - 073 - 9184	شماره پیمان:	پروژه	بسته کاری	مادر کننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 21 از 12
		BK	GCS	PEDCO	120	IN	DT	0010	D01	

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
PURCHASE DATA	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.



ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات  
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:




053 - 073 - 9184

شماره صفحه: 13 از 21

## MANUAL ALARM CALL POINT LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS
1	MAC-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	Addressable
2	MAC-2102	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
3	MAC-2103	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
4	MAC-2104	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	Addressable
5	MAC-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
6	MAC-2202	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	 Outdoor	IP 54	Unclassified	Hydrocarbon	Addressable
7	MAC-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
8	MAC-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	 Outdoor	IP 54	Unclassified	Hydrocarbon	Addressable
9	MAC-2303	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	Hydrocarbon	Addressable
10	MAC-2304	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon	Addressable
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28	calibration and test device for MACs							NOTE 1

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

 <p>NISOC</p>	<p>تکداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، ترمینال برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p> <p>DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD</p>								 
شماره پیمان:	پروژه	بسته کاری	مادرکننده	ترمینال	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 21 از 14
053 - 073 - 9184	BK	W007S	PEDCO	120	IN	DT	0010	D01	

DATASHEET FOR LINEAR HEAT DETECTOR		
GENERAL	1	Tag No.
	2	Ambient Temptrate 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
	27	Weather Proof and Dust Proof
	28	Safety Integrity Level
	29	Certificate
	30	Nameplates Material
PURCHASE DATA	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.



ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق‌رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:




053 - 073 - 9184

شماره صفحه: 15 از 21

### LINEAR HEAT DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	SERVICE	REMARKS	
1	LHD-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon		
2	LHD-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon		
3	LHD-2303	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon		
4	LHD-2304	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon		
5	LHD-2305	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Outdoor	IP 65	Unclassified	Hydrocarbon		
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27	calibration and test device for LHDs								NOTE 1

[illegible]

 <b>NISOC</b>	<p>تکهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض</p> <p>ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک</p>						 	
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD							
	پروژه	بسته کاری	صادرکننده	تهیلات	رشته	نوع مدرک	سریال	نسخه
BK	W007S	PEDCO	120	IN	DT	0010	D01	شماره صفحه: 21 از 16

DATASHEET FOR SMOKE DETECTOR/HEAT & SMOKE DETECTOR		
GENERAL	1	Tag No.
	2	Ambient Temprature Min / Max (°C)
	3	Design Relative Humidity Min / Max (%)
	4	Atmospheric Condition
	5	Area Classification
	6	F&G Location Layout No.
	7	Location of Installation
DETECTOR	8	Detector Type
	9	Function
	10	Service
	11	Sensor Type
	12	Rate of Rise(ROR)
	13	Built-in-Test
	14	Area Coverage
	15	Operating Temprature
	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	Smoke detector sensitivity
	35	Indicator
	36	Nameplates Material
PURCHASE DATA	37	Manufacturer
	38	Model No.

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.





ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق‌رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184

شماره صفحه: 17 از 21

پروژه

تهه کاره

صادرکننده
-----------

تسهيلات
---------

۱۰

نوع مدرک	
----------	--

سریال




نسخه



31-17

### SMOKE DETECTOR LIST

ITEM	TAG NO.	LOCATION	LAYOUT	Indoor / Outdoor	INGRESS PROTECTION	ELECTRICAL PROTECTION	REMARKS
1	SD-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
2	SD-2102	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
3	SD-2103	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
4	SD-2104	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
5	SD-2111	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
6	SD-2112	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
7	SD-2113	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
8	SD-2114	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
9	SD-2121	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
10	SD-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	Indoor	IP 54	Unclassified	
11	SD-2301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
12	SD-2302	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
13	SD-2303	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
14	SD-2311	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
15	SD-2312	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
16	SD-2313	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
17	SD-2314	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
18	SD-2315	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
19	SD-2316	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	Indoor	IP 54	Unclassified	
20	SD-2105	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
21	SD-2106	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
22	SD-2122	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	Indoor	IP 54	Unclassified	
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36	calibration and test device for SDs						NOTE 1

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

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، ترمیالات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک						 			
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD									
053 - 073 - 9184	شماره پیمان:	پروژه	بسته کاری	مادرکننده	ترمیالات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 18 از 21
		BK	W007S	PEDCO	120	IN	DT	0010	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
	19	Installation	Fix
	20	Mounting	Yoke (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 DATA	28	Manufacturer	will be finalized later 
	29	Model No.	will be finalized later 

**Notes :**

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



نگهداشت و افزایش تولید میدان نفتی بینک  
فعالیت های رو زمینی در بسته های کاری تحت الارض

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات  
برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



DATA SHEETS FOR F&amp;G DEVICES - EXTENSION OF BINAK BC MANIFOLD

شماره پیمان:

053 - 073 - 9184




شماره صفحه: 19 از 21




نسخه	سرال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D01	0010	DT	IN	120	PEPCO	W007S	BK




## BELL LIST

[illegible]

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

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD							 		
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 21 از 20
053 - 073 - 9184		BK	W007S	PEDCO	120	IN	DT	0010	D01	

DATASHEET FOR SMOKE DETECTOR/HEAT & SMOKE DETECTOR			
GENERAL	1	Tag No.	See Next Page
	2	Recorded Ambient Temperature Min / Max (°C)	-2 ~ 52 (°C)
	3	Relative Humidity @ Min recorded temp. / @ Max recorded temp. (%)	13~ 92 (%)
	4	Atmospheric Condition	Non-Acidic
	5	Area Classification	Zone1, IIB T4
	6	F&G Location Layout No.	See Next Page
	7	Location of Installation	See Next Page
DETECTOR	8	Detector Type	Addressable
	9	Function	Heat Detector
	10	Service	False floor / 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
	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
	35	Nameplates Material	Stainless Steel
PURCHASE DATA	36	Manufacturer	will be finalized later 
	37	Model No.	will be finalized later 
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.			

 <b>NISOC</b>	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک						 		
	DATA SHEETS FOR F&G DEVICES - EXTENSION OF BINAK BC MANIFOLD								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری W007S	صادر کننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0010	نسخه D01	شماره صفحه: 21 از 21

HEAT DETECTOR LIST							
ITEM	TAG NO.	LOCATION	LAYOUT	INDOOR / OUTDOOR	INGRESS PROTECTION	ELECTRICAL PROTECTION	REMARKS
1	HD-2101	Control Building	BK-W007S-PEDCO-110-IN-PY-0005 (2 OF 4)	INDOOR	IP 54	Unclassified	
2	HD-2201	Battery Building	BK-W007S-PEDCO-110-IN-PY-0005 (3 OF 4)	INDOOR	IP 54	Eexd 'Zone1, IIC T4	
3	HD-22301	Switchgear Building	BK-W007S-PEDCO-110-IN-PY-0005 (4 OF 4)	INDOOR	IP 54	Eexd 'Zone1, IIC T4	
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23	calibration and test device for HDs					NOTE 1	

1. Calibration and test devices for SDs & SD/HDs to be advise by vendor.