

	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک							  	
	DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER								
شماره پیمان: 053 - 073 – 9184	پروژه BK	بسته کاری GCS	صادرکننده PEDCO	تسهیلات 120	رشته IN	نوع مدرک DT	سریال 0004	نسخه D03	شماره صفحه: 1 از 11

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER

نگهداشت و افزایش تولید میدان نفتی بینک

D03	FEB.2024	AFC	P.Hajisadeghi	M.Fakharian	S.Faramarzpour	
D02	AUG.2023	AFC	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	MAR.2023	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	APR.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-708925

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



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER

شماره پیمان:

053 - 073 - 9184

نسخه	سریال	نوع مدرک	رشته	تجهیزات	صادر کننده	بسته کاری	پروژه
D03	0004	DT	IN	120	PEDCO	GCS	BK

شماره صفحه: ۲ از ۱۱

REVISION RECORD SHEET

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2	X	X	X	X		66					
3	X	X				67					
4	X	X				68					
5	X	X				69					
6	X	X	X	X		70					
7	X	X				71					
8	X	X	X	X		72					
9	X	X	X	X		73					
10						74					
11			X	X		75					
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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 PRESSURE / DIFF. PRESSURE TRANSMITTER								
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 3 از 11
	BK	GCS	PEDCO	120	IN	DT	0004	D03	

REFERENCE DOCUMENTS :

Specification For Instrumentation	BK-GNRAL-PEDCO-000-IN-SP-0001
Process Basis Of Design	BK-GNRAL-PEDCO-000-PR-DB-0001
Piping Material Specification	BK-GCS-PEDCO-120-PI-SP-0001
Hazardous Area Classification Layout	BK-GCS-PEDCO-120-SA-PY-0002
Instrument & Control System Design Criteria	BK-GCS-PEDCO-120-IN-DC-0002
Symbol & Legend For PFD and P&ID	BK-GCS-PEDCO-120-PR-PI-0001
P&ID - Gas Compression Inlet Gas Pipeline (Binak)	BK-GCS-PEDCO-120-PR-PI-0002
P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)	BK-GCS-PEDCO-120-PR-PI-0003
P&ID - Slug Catcher System	BK-GCS-PEDCO-120-PR-PI-0004
P&ID - Gas Compression Inlet Knock Out Drum	BK-GCS-PEDCO-120-PR-PI-0005
P&ID - 1st Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0006
P&ID - 1st Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0007
P&ID - 1st Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0008
P&ID - 2nd Stage Gas Compression Suction Drums	BK-GCS-PEDCO-120-PR-PI-0009
P&ID - 2nd Stage Gas Compression Compressors	BK-GCS-PEDCO-120-PR-PI-0010
P&ID - 2nd Stage Gas Compression Air Coolers	BK-GCS-PEDCO-120-PR-PI-0011
P&ID - 2nd Stage Gas Compression Discharge Drum	BK-GCS-PEDCO-120-PR-PI-0012
P&ID - Gas Compression Dehydration Package	BK-GCS-PEDCO-120-PR-PI-0013
P&ID - Lean Glycol Storage Tank	BK-GCS-PEDCO-120-PR-PI-0014
P&ID - Instrument & Plant Air System	BK-GCS-PEDCO-120-PR-PI-0015
P&ID - Nitrogen Generation System	BK-GCS-PEDCO-120-PR-PI-0016
P&ID - Close Drain System	BK-GCS-PEDCO-120-PR-PI-0017
P&ID - Corrosion Inhibitor Package	BK-GCS-PEDCO-120-PR-PI-0018
P&ID - Methanol Injection Package	BK-GCS-PEDCO-120-PR-PI-0019
P&ID - LP Flare System	BK-GCS-PEDCO-120-PR-PI-0020
P&ID - Oily Water Sewer	BK-GCS-PEDCO-120-PR-PI-0021
P&ID - Fuel Gas System	BK-GCS-PEDCO-120-PR-PI-0022
P&ID - Diesel Oil System	BK-GCS-PEDCO-120-PR-PI-0023
P&ID - Potable Water System	BK-GCS-PEDCO-120-PR-PI-0024
P&ID - Glycol Sump Drum	BK-GCS-PEDCO-120-PR-PI-0025
P&ID - Fire Water Network	BK-GCS-PEDCO-120-SA-PI-0001
P&ID - Total Flooding System For Extension of Existing Elect. Building	BK-GCS-PEDCO-120-SA-PI-0002



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سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER

شماره پیمان:

053 - 073 - 9184

پروژه

BK

بسته کاری

GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

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سریال

0004

نسخه

D03

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GENERAL NOTES:

- 1 - Zero and span adjustment shall be included and be accessible from outside in addition to Hand Held Communicator.
- 2 - Over range protection (at least 1.3 of full scale) shall be considered.
- 3 - 304 Stainless Steel name plate shall be supplied for all instruments specified in this document. Following details shall be engraved on them:

- Tag Number
- Range Limit
- Manufacture Model
- Manufacturer's Name
- Serial Number
- Supply Voltage
- Output Signal
- Hazardous Area Certification

4 - Painting shall be in accordance with manufacturer standard.

5 - VTA : Vendor To Advise

6 - N/A : Not Applicable

7 - Environmental condition for field instrumentation of Binak Oilfield shall be considered as per the followings:

Maximum ambient temperature: 50 (°C) (Note *)
Minimum ambient temperature: 5 (°C) (Note *)
Maximum steel surface exposed to sun: 85 (°C) (Note *)
Maximum summer dry bulb: 50 (°C) (Note *)
DB/RH for Summer HVAC Design: 41 °C / 61 % (Note **/ Note***)
DB FOR Winter HVAC Design: 6 °C (Note **)

* Refer to "Process Basis Of Design Doc No.: BK-GNRL-PEDCO-000-PR-DB-0001".

** Refer to " HVAC Design Criteria; N.I.O.C. NO.: F-1-B-422001".

*** Refer to "NISOC Meteorological Studies Report".

Relative Humidity:

- Maximum Design relative humidity (%): 100
- Minimum Design relative humidity (%): 0

8 - Material Test Certificate and calibration Certificate for all transmitters to be submitted by Vendor.

9 - This Data Sheets Has Been Prepared As Per Below Standard :

- IPS-M-IN-110 Material and equipment standard for pressure instruments
- IPS-E-IN-110 Engineering standard for pressure instruments
- IPS-C-IN-110 Construction standard for pressure instruments

10 - Material Test Certificate and calibration Certificate for all transmitters to be submitted by Vendor.

11 - All PT/DPT shall meet the following Radio Frequency Immunity (RFI) requirements that shall be tested at the acceptance test stage. Basic reference standard is IEC 60801 (part 3) for design and manufacturing considerations.

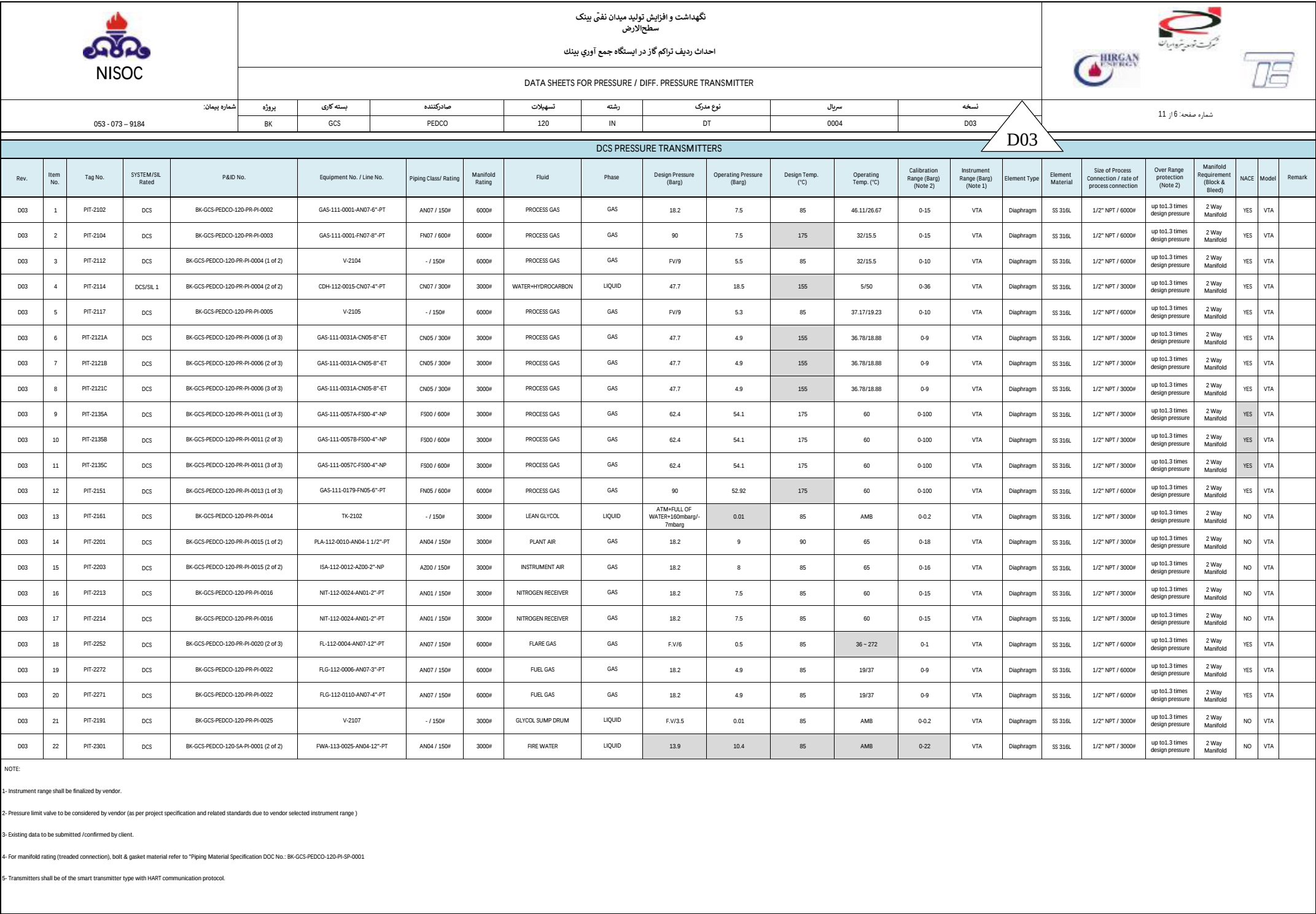
12 - Tropicalization shall be applied to protect electrical circuits and electronic cards from being degraded by corrosion and/or fungus growth.

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	DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سرنال	نسخه	شماره صفحه: 5 از 11
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DCS PRESSURE TRANSMITTER				
GENERAL DATA	1	Tag No.	SEE NEXT PAGE	
	2	P&ID No.	SEE NEXT PAGE	
	3	Equipment No. / Line No.	SEE NEXT PAGE	
	4	Area Classification	ZONE 2, IIB T4	
	5	Piping Class	SEE NEXT PAGE	
OPERATING CONDITIONS	6	Fluid	SEE NEXT PAGE	
	7	Phase	SEE NEXT PAGE	
	8	Operating Pressure (bar-g)	SEE NEXT PAGE	
	9	Design Pressure (bar-g)	SEE NEXT PAGE	
	10	Operating Temperature (°C)	SEE NEXT PAGE	
TRANSMITTER	11	Design Temperature (°C)	SEE NEXT PAGE	
	12	Element Type (NOTE 4)	SEE NEXT PAGE	
	13	Size of Process Connection	SEE NEXT PAGE	
	14	Rating of Process Connection	SEE NEXT PAGE	
	15	Element Material	SEE NEXT PAGE	
	16	Enclosure Material	Die cast aluminium	
	17	Instrument Range	SEE NEXT PAGE	
	18	Power Supply	24 VDC-Loop powered	
	19	Output Signal	4-20mA	
	20	Communication Protocol	SMART HART(4-20mA)	
	21	Electrical Connection	2* ISO M20 x 1.5	
	22	Electrical Certification	EEx "i"	
	23	Ingress Protection	IP-65 as minimum	
	24	Accuracy	0.1% F.S	
	25	Repeatability	+/- 0.1% or better	
	26	Span and Zero Adjustment	Required	
	27	Over Range Protection	Yes	
DIAPHRAGM SEAL	28	Type	N/A	
	29	Size (In)	N/A	
	30	Fill Fluid	N/A	
	31	Diaphragm Material	N/A	
	32	Capillary Material	N/A	
	33	Capillary Length	N/A	
OPTIONS	34	Integral Indicator	Display Unit	Required Bar-g
	35	Mounting Brackets	Required, 2" Support Pipe (Note 3)	
	36	Manifold	Body Material	2 Way Block & Bleed Manifold 316 S.S.L
	37	Connection	1/2 " NPT (Note 2,5,7)	
	38	Manifold Model	Manifold Manufacturer	- VTA
	39	Integral Indicator Style	LCD TYPE	
	40	NACE Requirements	SEE NEXT PAGE	
PURCHASING DATA	41	Model	Manufacturer	Will Be Finilized Later Will Be Finilized Later
	42	Supplier	Order	Will Be Finilized Later Will Be Finilized Later

NOTES : VTA : VENDOR TO ADVISE

- 1 : Wetted part shall be according to NACE MR0175/ISO 15156 as per list.
- 2 : All manifolds shall be suitable for connection to transmitter and process line.
- 3 : Mounting Yoke, U-bolt , Nuts and all accessories shall be supplied by vendor.
- 4 : Suitable element type to be confirmed by vendor.
- 5 : For manifold rating, refer to "Piping Material Specification Doc No.: BK-GCS-PEDCO-120-PI-SP-0001
- 6 : Burn out direction shall be capable to set.
- 7 : Instrument/Process connection to be as bellows:
 - Process Connection:1/2" NPTF
 - Instrument Connection: 1/2" NPTF
 - Drain Connection: 1/4" NPTF





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DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER

شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 7 از 11
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ESD PRESSURE TRANSMITTER

GENERAL DATA	1	Tag No.	SEE NEXT PAGE	
	2	P&ID No.	SEE NEXT PAGE	
	3	Equipment No. / Line No.	SEE NEXT PAGE	
	4	Area Classification	ZONE 2, IIB T4	
	5	Piping Class	SEE NEXT PAGE	
OPERATING CONDITIONS	6	Fluid	SEE NEXT PAGE	
	7	Phase	SEE NEXT PAGE	
	8	Operating Pressure (bar-g)	SEE NEXT PAGE	
	9	Design Pressure (bar-g)	SEE NEXT PAGE	
	10	Operating Temperature (°C)	SEE NEXT PAGE	
TRANSMITTER	11	Design Temperature (°C)	SEE NEXT PAGE	
	12	Element Type (NOTE 4)	SEE NEXT PAGE	
	13	Size of Process Connection	SEE NEXT PAGE	
	14	Rating of Process Connection	SEE NEXT PAGE	
	15	Element Material	SEE NEXT PAGE	
	16	Enclosure Material	Die cast aluminium	
	17	Instrument Range	SEE NEXT PAGE	
	18	Power Supply	24 VDC-Loop powered	
	19	Output Signal	4-20mA	
	20	Communication Protocol	SMART HART(4-20mA)	
	21	Electrical Connection	2* ISO M20 x 1.5	
	22	Electrical Certification	Ex "i"	
	23	Ingress Protection	IP-65 as minimum	
	24	Accuracy	0.1% F.S	
	25	Repeatability	+/- 0.1% or better	
	26	Span and Zero Adjustment	Required	
	27	Over Range Protection	Yes	
DIAPHRAGM SEAL	28	Type	N/A	
	29	Size (In)	N/A	
	30	Fill Fluid	N/A	
	31	Diaphragm Material	N/A	
	32	Capillary Material	N/A	
	33	Capillary Length	N/A	
OPTIONS	34	Integral Indicator	Display Unit	Required Bar-g
	35	Mounting Brackets	Required, 2" Support Pipe (Note 3)	
	36	Manifold	Body Material	2 Way Block & Bleed Manifold 316 S.S.L
	37	Connection	1/2 " NPT (Note 2,5,7)	
	38	Manifold Model	Manifold Manufacturer	- VTA
	39	Integral Indicator Style	LCD TYPE	
	40	NACE Requirements	SEE NEXT PAGE	
PURCHASING DATA	41	Model	Manufacturer	Will Be Finalized Later Will Be Finalized Later
	42	Supplier	Order	Will Be Finalized Later Will Be Finalized Later

NOTES : VTA : VENDOR TO ADVISE

- Wetted part shall be according to NACE MR0175/ISO 15156 as per list.
- All manifolds shall be suitable for connection to transmitter and process line.
- Mounting Yoke, U-bolt, Nuts and all accessories shall be supplied by vendor.
- Suitable element type to be confirmed by vendor.
- For manifold rating, refer to "Piping Material Specification Doc No.: BK-GCS-PEDCO-120-PI-SP-0001
- Burn out direction shall be capable to set.
- Instrument/Process connection to be as follows:
 - Process Connection: 1/2" NPTF
 - Instrument Connection: 1/2" NPTF
 - Drain Connection: 1/4" NPTF

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			DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER																				
شماره پیمان:			پروژه	بسته کاری	صادرکننده	تجهیزات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 8 از 11												
053 - 073 – 9184			BK	GCS	PEDCO	120	IN	DT	0004	D03	D03												
ESD PRESSURE TRANSMITTERS																							
Rev.	Item No.	Tag No.	SYSTEM/SIL Rated	P&ID No.	Equipment No. / Line No.	Piping Class/ Rating	Manifold Rating	Fluid	Phase	Design Pressure (Barg)	Operating Pressure (Barg)	Design Temp. (°C)	Operating Temp. (°C)	Calibration Range (Barg) (Note 2)	Instrument Range (Barg) (Note 1)	Element Type	Element Material	Size of Process Connection / rate of process connection	Over Range protection (Note 2)	Manifold Requirement (Block & Bleed)	NACE	Model	Remark
D03	1	PIT-2111	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2)	GAS-111-0012-AN07-8"-PT	AN07 / 150#	6000#	PROCESS GAS	GAS	18.2	5.5	85	32/15.5	0-10	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	2	PIT-2114A	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CDH-111-0010-AS00-4"-NP	AS00 / 150#	3000#	WATER+HYDROCARBON	LIQUID	13.9	5.5	85	32/15.5	0-10	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	3	PIT-2216A	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CDH-112-0012-CN05-3"-PT	CN05 / 300#	3000#	WATER+HYDROCARBON	LIQUID	47.7	19.5	155	5/50	0-38	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	4	PIT-2115	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CDH-112-0015-CN07-4"-PT	CN07 / 300#	3000#	WATER+HYDROCARBON	LIQUID	47.7	18.5	155	5/50	0-36	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	5	PIT-2116B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CDH-112-0013-CN05-3"-PT	CN05 / 300#	3000#	WATER+HYDROCARBON	LIQUID	47.7	19.5	155	5/50	0-10	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	6	PIT-2114B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2)	CDH-111-0011-AS00-4"-NP	AS00 / 150#	3000#	WATER+HYDROCARBON	LIQUID	13.9	5.5	85	32/15.5	0-38	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	7	PIT-2116	ESD/ SIL 2 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0005	GAS-111-0005-AN07-10"-PT	AN07 / 150#	6000#	PROCESS GAS	GAS	18.2	5.3	85	37.17/19.23	0-10	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	8	PIT-2122A	ESD/SIL 2 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	GAS-111-0031A-CN05-8"-ET	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	4.9	155	36.78/18.88	0-9	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	9	PIT-2125A	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3)	GAS-111-0036A-CN05-6"-NP	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	19	155	124.8/113.1	0-38	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	10	PIT-2122B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	GAS-111-0031B-CN05-8"-ET	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	4.9	85	36.78/18.88	0-9	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	11	PIT-2125B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3)	GAS-111-0036B-CN05-6"-NP	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	19	155	124.8/113.1	0-38	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	12	PIT-2122C	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	GAS-111-0031C-CN05-8"-ET	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	4.9	85	36.78/18.88	0-9	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	13	PIT-2125C	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3)	GAS-111-0036C-CN05-6"-NP	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	19	155	124.8/113.1	0-38	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	14	PIT-2131A	ESD/SIL 2 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	GAS-111-0044A-CN05-6"-ET	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	18.1	155	59.88	0-36	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	15	PIT-2134A	ESD/SIL 2 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3)	GAS-111-0051A-FN05-6"-IS	FN05 / 600#	6000#	PROCESS GAS	GAS	90	54.8	175	142.3/149.5	0-100	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	16	PIT-2131B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	GAS-111-0044B-CN05-6"-ET	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	18.1	155	59.88	0-36	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	17	PIT-2134B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3)	GAS-111-0051B-FN05-6"-IS	FN05 / 600#	6000#	PROCESS GAS	GAS	90	54.8	175	142.3/149.5	0-100	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	18	PIT-2131C	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	GAS-111-0044C-CN05-6"-ET	CN05 / 300#	3000#	PROCESS GAS	GAS	47.7	18.1	155	60	0-36	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	19	PIT-2134C	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3)	GAS-111-0051C-FN05-6"-IS	FN05 / 600#	6000#	PROCESS GAS	GAS	90	54.8	175	142.3/149.5	0-100	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	20	PIT-2202	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2)	PLA-112-0010-AN04-1 1/2"-PT	AN04 / 150#	3000#	PLANT AIR	GAS	18.2	9	90	65	0-18	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	NO	VTA	
D03	21	PIT-2201A	ESD/SIL 1 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)	ISA-112-0012-AZ00-2"-NP	AZ00 / 150#	3000#	INSTRUMENT AIR	GAS	18.2	8	85	65	0-16	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	NO	VTA	
D03	22	PIT-2201B	ESD/SIL 1 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)	ISA-112-0012-AZ00-2"-NP	AZ00 / 150#	3000#	INSTRUMENT AIR	GAS	18.2	8	85	65	0-16	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	NO	VTA	
D03	23	PIT-2201C	ESD/SIL 1 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2)	ISA-112-0012-AZ00-2"-NP	AZ00 / 150#	3000#	INSTRUMENT AIR	GAS	18.2	8	85	65	0-16	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	NO	VTA	
D03	24	PIT-2211	ESD/SIL 2 (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0016	NIT-112-0024-AN01-2"-PT	AN01 / 150#	3000#	NITROGEN RECEIVER	GAS	18.2	7.5	85	60	0-15	VTA	Diaphragm	SS 316L	1/2" NPT / 3000#	up to 1.3 times design pressure	2 Way Manifold	NO	VTA	
D03	25	PIT-2222A	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	CDH-112-0031-AN07-2"-PT	AN07 / 150#	6000#	CLOSED DRAIN	LIQUID	18.2	0.8	85	5	0-1.6	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	26	PIT-2222B	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0017 (2 of 2)	CDH-112-0146-AN07-2"-PT	AN07 / 150#	6000#	CLOSED DRAIN	LIQUID	18.2	0.8	85	5	0-1.6	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	
D03	27	PIT-2251A	ESD (NOTE 5)	BK-GCS-PEDCO-120-PR-PI-0020 (2 of 3)	CDH-112-0036-AN07-2"-PT	AN07 / 150#	6000#	FLARE PUMP	LIQUID	18.2	0.6	85	5	0-1.2	VTA	Diaphragm	SS 316L	1/2" NPT / 6000#	up to 1.3 times design pressure	2 Way Manifold	YES	VTA	

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک								
		DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER								
شماره پیمان:		پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 10 از 11
053 - 073 – 9184		BK	GCS	PEDCO	120	IN	DT	0004	D03	
DIFF. PRESSURE TRANSMITTER										
GENERAL DATA	1	Tag No.					SEE NEXT PAGE			
	2	P&ID No.					SEE NEXT PAGE			
	3	Equipment No. / Line No.					SEE NEXT PAGE			
	4	Area Classification					ZONE 2, IIB T4			
	5	Piping Class					SEE NEXT PAGE			
OPERATING CONDITIONS	6	Fluid					SEE NEXT PAGE			
	7	Phase					SEE NEXT PAGE			
	8	Operating Pressure (bar-g)					SEE NEXT PAGE			
	9	Design Pressure (bar-g)					SEE NEXT PAGE			
	10	Operating Temperature (°C)					SEE NEXT PAGE			
	11	Design Temperature (°C)					SEE NEXT PAGE			
TRANSMITTER	12	Element Type (NOTE 4)					SEE NEXT PAGE			
	13	Size of Process Connection					SEE NEXT PAGE			
	14	Rating of Process Connection					SEE NEXT PAGE			
	15	Element Material					SEE NEXT PAGE			
	16	Enclosure Material					Die cast aluminium			
	17	Instrument Range					SEE NEXT PAGE			
	18	Power Supply					24 VDC-Loop powered			
	19	Output Signal					4-20mA			
	20	Communication Protocol					SMART HART(4-20mA)			
	21	Electrical Connection					2* ISO M20 x 1.5			
	22	Electrical Certification					EEx "i"			
	23	Ingress Protection					IP-65 as minimum			
	24	Accuracy					0.1% F.S			
	25	Repeatability					+/- 0.1% or better			
	26	Span and Zero Adjustment					Required			
	27	Over Range Protection					Yes			
	DIAPHRAGM SEAL	28	Type					N/A		
29		Size (In)					N/A			
30		Fill Fluid					N/A			
31		Diaphragm Material					N/A			
32		Capillary Material					N/A			
33		Capillary Length					N/A			
OPTIONS	34	Integral Indicator			Display Unit		Required		Bar	
	35	Mounting Brackets						Required, 2" Support Pipe (Note 3)		
	36	Manifold			Body Material		5 Way Block & Bleed Manifold		316 S.S.L	
	37	Connection						1/2 " NPT (Note 2,5,7)		
	38	Manifold Model			Manifold Manufacturer		-		VTA	
	39	Integral Indicator Style						LCD TYPE		
	40	NACE Requirements					SEE NEXT PAGE			
PURCHASING DATA	41	Model			Manufacturer		Will Be Finalized Later		Will Be Finalized Later	
	42	Supplier			Order		Will Be Finalized Later		Will Be Finalized Later	
NOTES : VTA : VENDOR TO ADVISE 1 : Wetted part shall be according to NACE MR0175/ISO 15156 as per list. 2 : All manifolds shall be suitable for connection to transmitter and process line. 3 : Mounting Yoke, U-bolt , Nuts and all accessories shall be supplied by vendor. 4 : Suitable element type to be confirmed by vendor. 5 : For manifold rating, refer to "Piping Material Specification Doc No.: BK-GCS-PEDCO-120-PI-SP-0001 6 : Burn out direction shall be capable to set. 7 : Instrument/Process connection to be as bellows: - Process Connection: 1/2" NPTF - Instrument Connection: 1/2" NPTF - Drain Connection: 1/4" NPTF										



نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض



DATA SHEETS FOR PRESSURE / DIFF. PRESSURE TRANSMITTER

شماره صفحه: 11 از 11

شماره پیمان:

053 - 073 - 9184

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ته کاری

صادرکننده

تسهيلات

رشته

دری

مصرف مال

نسخه

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NOTE:

1- Instrument range shall be finalized by vendor.

2- Pressure limit valve to be considered by vendor (as per project specification and related standards due to vendor selected instrument range)

3- Existing data to be submitted /confirmed by client.

4- For manifold rating (treaded connection), bolt & gasket material refer to "Piping Material Specification DOC No.: BK-GCS-PEDCO-120-PI-SP-0001

5- Transmitters shall be of the smart transmitter type with HART communication protocol.