

|                                                                                                   |                                                                                                      |                  |                     |                |            |                |               |                                                                                                                                                                            |                     |
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| <br><b>NISOC</b> | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض<br>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک |                  |                     |                |            |                |               | <br> |                     |
|                                                                                                   | INSTRUMENT INDEX                                                                                     |                  |                     |                |            |                |               |                                                                                                                                                                            |                     |
| شماره پیمان:<br>۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                  | پروژه<br>BK                                                                                          | بسته کاری<br>GCS | صادر کننده<br>PEDCO | تسهیلات<br>120 | رشته<br>IN | نوع مدرک<br>LI | سریال<br>0001 | نسخه<br>D01                                                                                                                                                                | شماره صفحه: ۱ از ۱۹ |

طرح نگهداشت و افزایش تولید ۲۷ مخزن

INSTRUMENT INDEX  
 نگهداشت و افزایش تولید میدان نفتی بینک

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|      |          |                           |               |             |              |                 |
|      |          |                           |               |             |              |                 |
| D01  | SEP.2022 | 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: 2
 CLIENT Doc. Number: F0Z-708967

status:
 IDC: Inter-Discipline Check  
 IFC: Issued For Comment  
 IFA: Issued For Approval  
 AFD: Approved For Design  
 AFC: Approved For Construction  
 AFP: Approved For Purchase  
 AFQ: Approved For Quotation  
 IFI: Issued For Information  
 AB-R: As-Built for CLIENT Review  
 AB-A: As-Built –Approved



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



## INSTRUMENT INDEX

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

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GCS

صادر کننده

PEDCO

تسهیلات

120

رشته

IN

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LI

سریال

0001

نسخه

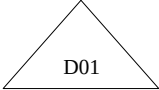
D01

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## REVISION RECORD SHEET

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|                                                                                               |                                                                                                          |       |           |            |         |      |          |                                                                                    |                     |
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| <br><br>NISOC | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض<br><br>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک |       |           |            |         |      |          |  |                     |
|                                                                                               | INSTRUMENT INDEX                                                                                         |       |           |            |         |      |          |                                                                                    |                     |
|                                                                                               | شماره پیمان:                                                                                             | پروژه | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک |                                                                                    | سریال               |
| ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                              | BK                                                                                                       | GCS   | PEDCO     | 120        | IN      | LI   | 0001     | D01                                                                                | شماره صفحه: ۳ از ۱۹ |

|                                                                                                  |                                                                    |                                                                                     |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>REFERENCES:</b>                                                                               |                                                                    |  |
| Symbol & Legend For PFD and P&ID                                                                 | BK-GCS-PEDCO-120-PR-PI-0001_D02                                    |                                                                                     |
| Specification For Instrumentation                                                                | BK-GNRAL-PEDCO-000-IN-SP-0001_D04                                  |                                                                                     |
| Control/ESD/F&G System Block Diagram Configuration                                               | BK-GCS-PEDCO-120-IN-BD-0001_D04                                    |                                                                                     |
| P&ID - Gas Compression Inlet Gas Pipeline (Binak)                                                | BK-GCS-PEDCO-120-PR-PI-0002_D04                                    |                                                                                     |
| P&ID - Gas Compression Inlet Gas Pipeline (Golkhari)                                             | BK-GCS-PEDCO-120-PR-PI-0003_D04                                    |                                                                                     |
| P&ID - Slug Catcher System                                                                       | BK-GCS-PEDCO-120-PR-PI-0004_D04                                    |                                                                                     |
| P&ID - Gas Compression Inlet Knock Out Drum                                                      | BK-GCS-PEDCO-120-PR-PI-0005_D04                                    |                                                                                     |
| P&ID - 1st Stage Gas Compression Suction Drums                                                   | BK-GCS-PEDCO-120-PR-PI-0006_D04                                    |                                                                                     |
| P&ID - 1st Stage Gas Compression Compressors                                                     | BK-GCS-PEDCO-120-PR-PI-0007_D04                                    |                                                                                     |
| P&ID - 1st Stage Gas Compression Air Coolers                                                     | BK-GCS-PEDCO-120-PR-PI-0008_D04                                    |                                                                                     |
| P&ID - 2nd Stage Gas Compression Suction Drums                                                   | BK-GCS-PEDCO-120-PR-PI-0009_D04                                    |                                                                                     |
| P&ID - 2nd Stage Gas Compression Compressors                                                     | BK-GCS-PEDCO-120-PR-PI-0010_D04                                    |                                                                                     |
| P&ID - 2nd Stage Gas Compression Air Coolers                                                     | BK-GCS-PEDCO-120-PR-PI-0011_D04                                    |                                                                                     |
| P&ID - 2nd Stage Gas Compression Discharge Drum                                                  | BK-GCS-PEDCO-120-PR-PI-0012_D04                                    |                                                                                     |
| P&ID - Gas Compression Dehydration Package                                                       | BK-GCS-PEDCO-120-PR-PI-0013_D04                                    |                                                                                     |
| P&ID - Lean Glycol Storage Tank                                                                  | BK-GCS-PEDCO-120-PR-PI-0014_D04                                    |                                                                                     |
| P&ID - Instrument & Plant Air System                                                             | BK-GCS-PEDCO-120-PR-PI-0015_D04                                    |                                                                                     |
| P&ID - Nitrogen Generation System                                                                | BK-GCS-PEDCO-120-PR-PI-0016_D04                                    |                                                                                     |
| P&ID - Close Drain System                                                                        | BK-GCS-PEDCO-120-PR-PI-0017_D04                                    |                                                                                     |
| P&ID - Corrosion Inhibitor Package                                                               | BK-GCS-PEDCO-120-PR-PI-0018_D04                                    |                                                                                     |
| P&ID - Methanol Injection Package                                                                | BK-GCS-PEDCO-120-PR-PI-0019_D04                                    |                                                                                     |
| P&ID - LP Flare System                                                                           | BK-GCS-PEDCO-120-PR-PI-0020_D04                                    |                                                                                     |
| P&ID - Oily Water Sewer                                                                          | BK-GCS-PEDCO-120-PR-PI-0021_D04                                    |                                                                                     |
| P&ID - Fuel Gas System                                                                           | BK-GCS-PEDCO-120-PR-PI-0022_D04                                    |                                                                                     |
| P&ID - Diesel Oil System                                                                         | BK-GCS-PEDCO-120-PR-PI-0023_D04                                    |                                                                                     |
| P&ID - Potable Water System                                                                      | BK-GCS-PEDCO-120-PR-PI-0024_D04                                    |                                                                                     |
| P&ID - Glycol Sump Drum                                                                          | BK-GCS-PEDCO-120-PR-PI-0025_D04                                    |                                                                                     |
| P&ID - Fire Water Network                                                                        | BK-GCS-PEDCO-120-SA-PI-0001_D01                                    |                                                                                     |
| P&ID - Total Flooding System For Extension of Existing Elect. Building                           | BK-GCS-PEDCO-120-SA-PI-0002_D02                                    |                                                                                     |
| P&ID - Gas Pipeline (to Siahmakan G.I. Station)                                                  | BK-PPL-PEDCO-320-PR-PI-0001_D03                                    |                                                                                     |
| <b>ABBREVIATIONS:</b>                                                                            |                                                                    |                                                                                     |
| CC                                                                                               | CORROSION COUPON                                                   |                                                                                     |
| CP/T                                                                                             | CORROSION PROBE/ TRANSMITTER                                       |                                                                                     |
| LSLL                                                                                             | LEVEL SWITCH LOW LOW LEVEL SHUTDOWN                                |                                                                                     |
| LG/LIT                                                                                           | LEVEL GAUGE/LEVEL INDICATOR TRANSMITTER                            |                                                                                     |
| PRV/PSV                                                                                          | PRESSURE RILIEF VALVE/SAFTEY VALVE                                 |                                                                                     |
| TRV                                                                                              | TEMPERATURE RILIEF VALVE                                           |                                                                                     |
| PG/PT/PIT                                                                                        | PRESSURE GAUGE/PRESSURE TRANSMITTER/PRESSURE INDICATOR TRANSMITTER |                                                                                     |
| TG/TIT                                                                                           | TEMPERATURE GAUGE/TEMPERATURE INDICATOR TRANSMITTER                |                                                                                     |
| ESDV                                                                                             | EMERGENCY SHUTDOWN VALVE                                           |                                                                                     |
| XV                                                                                               | ON/OFF VALVE                                                       |                                                                                     |
| BDV                                                                                              | BLOWDOWN VALVE                                                     |                                                                                     |
| FE                                                                                               | FLOW ELEMENT                                                       |                                                                                     |
| FT                                                                                               | FLOW TRANSMITTER                                                   |                                                                                     |
| FCV/LCV/TCV                                                                                      | FLOW CONTROL VALVE/LEVEL CONTROL VALVE/TEMPERATURE CONTROL VALVE   |                                                                                     |
| IS                                                                                               | INTRINSICALLY SAFE                                                 |                                                                                     |
| R                                                                                                | REDUNDANT                                                          |                                                                                     |
| AO/AI                                                                                            | ANALOG OUTPUT/ANALOG INPUT                                         |                                                                                     |
| DO/DI                                                                                            | DIGITAL OUTPUT/DIGITAL INPUT                                       |                                                                                     |
| NOTE.1 : DESIGN PRESSURE BY VENDOR                                                               |                                                                    |                                                                                     |
| NOTE.2 : ALL OF TEMPERATURE GAUGES & TEMPERATURE TRANSMITTERS SHALL BE SUPPLIED WITH THERMOWELL. |                                                                    |                                                                                     |



|                                                                                                        |                                               |           |                                               |                                                                                                                            |                             |           |                           |                             |                             |                             |                             |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|---------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|-------------------|-----------------|--------------------------|-----------|------------------|--------|------|--|--------------|--|--|
| <div><br/>NISOC</div> |                                               |           |                                               | <div>تنگه‌داشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                             |           |                           |                             |                             |                             |                             |                     |              | <div></div> |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
|                                                                                                        |                                               |           |                                               |                                                                                                                            |                             |           |                           |                             |                             |                             |                             |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
| شماره پیمان:                                                                                           |                                               |           |                                               | پروژه                                                                                                                      | بسته کاری                   | صادرکننده | نمیدلات                   | رشته                        | نوع مدرک                    | سریال                       | نسخه                        | شماره صفحه: ۴ از ۱۹ |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                                               |           |                                               | BK                                                                                                                         | GCS                         | PEDCO     | 120                       | IN                          | LI                          | 0001                        | D00                         |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
| IDENTIFICATION                                                                                         |                                               |           |                                               | REFERENCE                                                                                                                  |                             |           |                           |                             |                             |                             |                             | PRESSURE            |              | TEMPERATURE                                                                                                                                                                       |             | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE      | NOTE   | REV. |  |              |  |  |
| ITEM                                                                                                   | PROJECT PART                                  | TAG NAME  | DESCRIPTION                                   | LINE/ EQUIPMENT                                                                                                            | P&ID NO.                    | SERVICE   | LOCATION N/ PACKAG E NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCAION LAYOUT DWG NO.      | DESIGN (BARG)       | OPER. (BARG) | DESIGN (°C)                                                                                                                                                                       | OPER. (°C)  |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
| Instrument Index for GCS                                                                               |                                               |           |                                               |                                                                                                                            |                             |           |                           |                             |                             |                             |                             |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
| 1                                                                                                      | General                                       |           | Hand held calibrator                          | -                                                                                                                          | -                           |           |                           |                             |                             |                             |                             |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |
| 2                                                                                                      | General                                       |           | Corrosion Portable Meter                      | -                                                                                                                          | -                           |           |                           |                             |                             |                             |                             |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  | D01 Modified |  |  |
| 3                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | PG-2101   | Pressure Gauge (Bourdon)                      | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | 0-10 barg        | -                 | Barg            | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 4                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | EZSC-2101 | Limit Switch Close (Included in ON-OFF Valve) | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |        |      |  | D01 Modified |  |  |
| 5                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | EZSO-2101 | Limit Switch Open (Included in ON-OFF Valve)  | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |        |      |  | D01 Modified |  |  |
| 6                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | ESOV-2101 | ESD Solenoid Valve                            | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER |        |      |  | D01 Modified |  |  |
| 7                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | ESDV-2101 | Emergency Shut Down Valve                     | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 |                  |                   |                 |                          |           |                  |        |      |  | D01 Modified |  |  |
| 8                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | PG-2102   | Pressure Gauge (Bourdon)                      | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | 0-10 barg        | -                 | Barg            | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 9                                                                                                      | Gas Compression Inlet Gas Pipeline (Binak)    | PIT-2102  | Pressure Indicating Transmitter (Diaphragm)   | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | VTA              | 0-15 barg         | Barg            | FIELD-DCS                | AI-IS-R   | 4-20 mA          |        |      |  | D01 Modified |  |  |
| 10                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | TIT-2102  | Temperature Indicating Transmitter (RTD)      | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | 0-100 °C         | -                 | °C              | FIELD-DCS                | AI-IS-R   | 4-20 mA          | Note 2 |      |  | D01 Modified |  |  |
| 11                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | FE-2101   | Flow Element (Orifice Plate)                  | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | -               | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 12                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | FIT-2101  | Flow Indicating Transmitter (Diaphragm)       | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0012 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 |                 | FIELD-DCS                | AI-IS-R   | 4-20 mA          |        |      |  | D01 Modified |  |  |
| 13                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | FCV-2101  | Flow Control Valve (Globe Valve)              | GAS-111-0001-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | GAS       | DCS                       | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          |        |      |  | D01 Modified |  |  |
| 14                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | FG-2101   | Rotameter                                     | CHM-112-0001-AS00-3/4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0002 | LIQUID    | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 13.9                | 7.7          | 85                                                                                                                                                                                | AMB         | -                | -                 | -               | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 15                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | CP-2101   | Corrosion Probe (LPR probes)                  | GAS-111-0101-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | LIQUID    | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | mm              | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 16                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | CC-2101   | Corrosion Coupon (Strip Ladder)               | GAS-111-0101-AN07-6"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0002 | LIQUID    | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 46.11/26.67 | -                | -                 | mm              | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 17                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | PG-2103   | Pressure Gauge (Bourdon)                      | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | 0-10 barg        | -                 | Barg            | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 18                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | EZSC-2102 | Limit Switch Close (Included in ON-OFF Valve) | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |        |      |  | D01 Modified |  |  |
| 19                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | EZSO-2102 | Limit Switch Open (Included in ON-OFF Valve)  | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |        |      |  | D01 Modified |  |  |
| 20                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | ESOV-2102 | ESD Solenoid Valve                            | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER |        |      |  | D01 Modified |  |  |
| 21                                                                                                     | Gas Compression Inlet Gas Pipeline (Binak)    | ESDV-2102 | Emergency Shut Down Valve (Ball Valve)        | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     |                  |                   |                 |                          |           |                  |        |      |  | D01 Modified |  |  |
| 22                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | PG-2104   | Pressure Gauge (Bourdon)                      | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | 0-10 barg        | -                 | Barg            | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 23                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | PIT-2104  | Pressure Indicating Transmitter (Diaphragm)   | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | VTA              | 0-15 barg         | Barg            | FIELD-DCS                | AI-IS-R   | 4-20 mA          |        |      |  | D01 Modified |  |  |
| 24                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | TIT-2104  | Temperature Indicating Transmitter (RTD)      | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | 0-100 °C         | -                 | °C              | FIELD-DCS                | AI-IS-R   | 4-20 mA          | Note 2 |      |  | D01 Modified |  |  |
| 25                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | FE-2102   | Flow Element (Orifice Plate)                  | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | -               | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 26                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | FIT-2102  | Flow Indicating Transmitter (Diaphragm)       | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0012 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA          |        |      |  | D01 Modified |  |  |
| 27                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | FCV-2102  | Flow Control Valve (Globe Valve)              | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | GAS       | DCS                       | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          |        |      |  | D01 Modified |  |  |
| 28                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | FG-2102   | Rotameter                                     | CHM-112-0002-AS00-3/4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0003 | LIQUID    | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 13.9                | 7.7          | 85                                                                                                                                                                                | AMB         | -                | -                 | -               | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 29                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | CP-2102   | Corrosion Probe (LPR probes)                  | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | LIQUID    | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | mm              | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 30                                                                                                     | Gas Compression Inlet Gas Pipeline (Golkhari) | CC-2102   | Corrosion Coupon (Strip Ladder)               | GAS-111-0001-FN05-8"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0003 | LIQUID    | LOCAL                     | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 18.2                | 7.5          | 85                                                                                                                                                                                | 32/15.5     | -                | -                 | mm              | -                        | -         | -                |        |      |  | D01 Modified |  |  |
| 31                                                                                                     | Slug Catcher System                           | TIT-2111  | Temperature Indicating Transmitter            | GAS-111-00                                                                                                                 |                             |           |                           |                             |                             |                             |                             |                     |              |                                                                                                                                                                                   |             |                  |                   |                 |                          |           |                  |        |      |  |              |  |  |



|                                                                                                        |                     |           |                                                          |                                                                                                                          |                                      |           |                        |                             |                             |                             |                             |                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |                   |        |              |
|--------------------------------------------------------------------------------------------------------|---------------------|-----------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------|------------------|-------------------|-----------------|--------------------------|----------|-------------------|--------|--------------|
| <div><br/>NISOC</div> |                     |           |                                                          | <div>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |           |                        |                             |                             |                             |                             | <div></div> |              |             |             |                  |                   |                 |                          |          |                   |        |              |
|                                                                                                        |                     |           |                                                          |                                                                                                                          |                                      |           |                        |                             |                             |                             |                             |                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |                   |        |              |
|                                                                                                        |                     |           |                                                          | INSTRUMENT INDEX                                                                                                         |                                      |           |                        |                             |                             |                             |                             |                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |                   |        |              |
| شماره پیمان:                                                                                           |                     |           |                                                          | پروژه                                                                                                                    | بسته کاری                            | صادرکننده | نماینده                | رشته                        | نوع مدرک                    | سریال                       | نسخه                        | شماره صفحه: ۵ از ۱۹                                                                                                                                                               |              |             |             |                  |                   |                 |                          |          |                   |        |              |
| ۰۵۳ – ۰۷۲ – ۹۱۸۴                                                                                       |                     |           |                                                          | BK                                                                                                                       | GCS                                  | PEDCO     | 120                    | IN                          | LI                          | 0001                        | D00                         |                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |                   |        |              |
| IDENTIFICATION                                                                                         |                     |           |                                                          | REFERENCE                                                                                                                |                                      |           |                        |                             |                             |                             |                             | PRESSURE                                                                                                                                                                          |              | TEMPERATURE |             | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE | SIGNAL TYPE       | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART        | TAG NAME  | DESCRIPTION                                              | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE   | LOCATION/ PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCAION LAYOUT DWG NO.      | DESIGN (BARG)                                                                                                                                                                     | OPER. (BARG) | DESIGN (°C) | OPER. (°C)  |                  |                   |                 |                          |          |                   |        |              |
| 36                                                                                                     | Slug Catcher System | PIT-2112  | Pressure Indicating Transmitter (Diaphragm)              | V-2104                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | GAS       | V-2104                 | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.5          | 85          | 32/15.5     | VTA              | 0-11 barg         | Barg            | FIELD-DCS                | AI-IS-NR | 4-20 mA           |        | D01 Modified |
| 37                                                                                                     | Slug Catcher System | TG-2111   | Temperature Gauge (Bimetal)                              | V-2104                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | GAS       | V-2104                 | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.5          | 85          | 32/15.5     | 0-100 °C         | -                 | °C              | -                        | -        | -                 | Note 2 | D01 Modified |
| 38                                                                                                     | Slug Catcher System | PG-2111   | Pressure Gauge (Bourdon)                                 | V-2104                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.5          | 85          | 32/15.5     | 0-10 barg        | -                 | Barg            | -                        | -        | -                 |        | D01 Modified |
| 39                                                                                                     | Slug Catcher System | PDIT-2111 | Differential Pressure Indicating Transmitter (Diaphragm) | GAS-111-0019-AN07-8"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | VTA              | 0-1 bara          | Bara            | FIELD-DCS                | AI-IS-NR | 4-20 mA           |        | D01 Modified |
| 40                                                                                                     | Slug Catcher System | CP-2111   | Corrosion Probe (LPR probes)                             | GAS-111-0019-AN07-8"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | mm              | -                        | -        | -                 |        | D01 Modified |
| 41                                                                                                     | Slug Catcher System | CC-2111   | Corrosion Coupon (Strip Ladder)                          | GAS-111-0019-AN07-8"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | mm              | -                        | -        | -                 | -      | D01 Modified |
| 42                                                                                                     | Slug Catcher System | LG-2111   | Level Gauge (Reflex)                                     | V-2104                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | LIQUID    | V-2104                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | VTA              | -                 | -               | -                        | -        | -                 |        | D01 Modified |
| 43                                                                                                     | Slug Catcher System | LIT-2111  | Level Indicating Transmitter                             | V-2104                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 2) | LIQUID    | V-2104                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | VTA              | -                 | -               | FIELD-DCS                | AI-IS-R  | 4-20 mA           |        | D01 Modified |
| 44                                                                                                     | Slug Catcher System | LCV-2111  | Control Valve                                            | GDH-112-0005-AN05-20"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 3) | LIQUID    | DCS                    | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | -               | DCS-FIELD                | AO-IS-R  | 4-20 mA           |        | D01 Modified |
| 45                                                                                                     | Slug Catcher System | EZSC-2111 | Limit Switch Close (Included in ON-OFF Valve)            | GDH-112-0004-AS00-14"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | -               | FIELD-ESD                | DI-NIS-R | 24 VDC            |        | D01 Modified |
| 46                                                                                                     | Slug Catcher System | EZIO-2111 | Limit Switch Open (Included in ON-OFF Valve)             | GDH-112-0004-AS00-14"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | -               | FIELD-ESD                | DI-NIS-R | 24 VDC            |        | D01 Modified |
| 47                                                                                                     | Slug Catcher System | ESOV-2111 | ESD Solenoid Valve                                       | GDH-112-0004-AS00-14"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | -               | ESD-FIELD                | DO-NIS-R | -24VDC LOOP-POWER |        | D01 Modified |
| 48                                                                                                     | Slug Catcher System | ESDV-2111 | Emergency Shut-Down Valve                                | GDH-112-0004-AS00-14"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0004 (1 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.3          | 85          | 31.86/15.35 | -                | -                 | -               |                          |          |                   |        | D01 Modified |
| 49                                                                                                     | Slug Catcher System | PIT-2113  | Pressure Indicating Transmitter                          | V-2106                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | GAS       | V-2106                 | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | 0-1 barg          | Barg            | FIELD-DCS                | AI-IS-NR | 4-20 mA           |        | D01 Modified |
| 50                                                                                                     | Slug Catcher System | LG-2112   | Level Gauge                                              | V-2106                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | LIQUID    | V-2106                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | -                        | -        | -                 |        | D01 Modified |
| 51                                                                                                     | Slug Catcher System | LIT-2113  | Level Indicating Transmitter                             | V-2106                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | LIQUID    | V-2106                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | FIELD-DCS                | AI-IS-NR | 4-20 mA           |        | D01 Modified |
| 52                                                                                                     | Slug Catcher System | LIT-2115  | Level Indicating Transmitter                             | TK-2101                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | LIQUID    | TK-2101                | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | FIELD-ESD                | AI-IS-R  | 4-20 mA           |        | D01 Modified |
| 53                                                                                                     | Slug Catcher System | LG-2114   | Level Gauge                                              | TK-2101                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | LIQUID    | TK-2101                | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | -                        | -        | -                 |        | D01 Modified |
| 54                                                                                                     | Slug Catcher System | LIT-2114  | Level Indicating Transmitter                             | TK-2101                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | LIQUID    | TK-2101                | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | FIELD-DCS                | AI-IS-R  | 4-20 mA           |        | D01 Modified |
| 55                                                                                                     | Slug Catcher System | PVSV-2111 | Pressure-Vacuation Safety Valve                          | TK-2101                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | GAS       | TK-2101                | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | -                        | -        | -                 |        | D01 Modified |
| 56                                                                                                     | Slug Catcher System | PRV-2111  | Pressure Relief Valve                                    | FLG-112-0001-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | -                        | -        | -                 |        | D01 Modified |
| 57                                                                                                     | Slug Catcher System | PG-2112   | Pressure Gauge                                           | FL-112-0007-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | 0-1 barg         | -                 | Barg            | -                        | -        | -                 |        | D01 Modified |
| 58                                                                                                     | Slug Catcher System | PG-2113   | Pressure Gauge                                           | V-2106                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | LIQUID    | V-2106                 | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | 0-1 barg         | -                 | Barg            | -                        | -        | -                 |        | D01 Modified |
| 59                                                                                                     | Slug Catcher System | PRV-2112  | Pressure Relief Valve                                    | FL-112-0007-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 0.5          | 85          | 23.22/8.82  | VTA              | -                 | -               | -                        | -        | -                 |        | D01 Modified |
| 60                                                                                                     | Slug Catcher System | PG-2114A  | Pressure Gauge (Bourdon)                                 | CDH-111-0010-AS00-4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.5          | 85          | 23.22/8.82  | 0-60 barg        | -                 | Barg            | -                        | -        | -                 |        | D01 Modified |
| 61                                                                                                     | Slug Catcher System | PIT-2114A | Pressure Indicating Transmitter (Diaphragm)              | CDH-111-0010-AS00-4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.5          | 85          | 23.22/8.82  | VTA              | 0-11 barg         | Barg            | FIELD-ESD                | AI-IS-R  |                   |        | D01 Modified |
| 62                                                                                                     | Slug Catcher System | PDG-2114A | Differential Pressure Gauge (Diaphragm)                  | CDH-111-0010-AS00-4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                 | 5.5          | 85          | 23.22/8.82  | VTA              | 0-1 bara          | Bara            | -                        | -        | -                 |        | D01 Modified |
| 63                                                                                                     | Slug Catcher System | TG-2112A  | Temperature Gauge (Bimetal)                              | CDH-112-0012-CN05-3"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22.5                                                                                                                                                                              | 19.5         | 85          | 23.22/8.82  | 0-100 °C         | -                 | °C              | -                        | -        | -                 | Note 2 | D01 Modified |
| 64                                                                                                     | Slug Catcher System | PG-2113A  | Pressure Gauge (Bourdon)                                 | CDH-112-0012-CN05-3"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22.5                                                                                                                                                                              | 19.5         | 85          | 23.22/8.82  | 0-60 barg        | -                 | Barg            | -                        | -        | -                 |        | D01 Modified |
| 65                                                                                                     | Slug Catcher System | PIT-2116A | Pressure Indicating Transmitter (Diaphragm)              | CDH-112-0012-CN05-3"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22.5                                                                                                                                                                              | 19.5         | 85          | 23.22/8.82  |                  | 0-39 barg         |                 | FIELD-ESD                | AI-IS-R  | 4-20 mA           |        | D01 Modified |
| 66                                                                                                     | Slug Catcher System | FE-2111   | Flow Element (Orifice Plate)                             | CDH-112-0015-CN05-4"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of 2) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22.5                                                                                                                                                                              | 19.5         | 85          | 23.22/8.82  | -                | -                 | -               | -                        | -        | -                 | -      | D01 Modified |
| 67                                                                                                     | Slug Catcher System | FIT-2111  | Flow Indicating Transmitter (Diaphragm)                  | CDH-112-0015-CN05-4"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004 (2 of    |           |                        |                             |                             |                             |                             |                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |                   |        |              |



|                                                                                                        |                                         |           |                                                             |                                                                                                                          |                                         |           |                                   |                             |                             |                             |                             |               |                 |             |             |                                                                                                                                                                                   |                      |                     |                             |                     |                     |              |                 |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------|-----------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------|-----------------------------|---------------------|---------------------|--------------|-----------------|
| <div><br/>NISOC</div> |                                         |           |                                                             | <div>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                         |           |                                   |                             |                             |                             |                             |               |                 |             |             | <div></div> |                      |                     |                             |                     |                     |              |                 |
|                                                                                                        |                                         |           |                                                             | INSTRUMENT INDEX                                                                                                         |                                         |           |                                   |                             |                             |                             |                             |               |                 |             |             |                                                                                                                                                                                   |                      |                     |                             |                     |                     |              |                 |
| شماره پیمان:                                                                                           |                                         |           |                                                             | پروژه                                                                                                                    |                                         | بسته کاری |                                   | صادرکننده                   |                             | نمیدلات                     |                             | رشته          |                 | نوع مدرک    |             | سریال                                                                                                                                                                             |                      | نسخه                |                             |                     |                     |              |                 |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                                         |           |                                                             | BK                                                                                                                       |                                         | GCS       |                                   | PEDCO                       |                             | 120                         |                             | IN            |                 | LI          |             | 0001                                                                                                                                                                              |                      | D00                 |                             | شماره صفحه: ۶ از ۱۹ |                     |              |                 |
| IDENTIFICATION                                                                                         |                                         |           |                                                             | REFERENCE                                                                                                                |                                         |           |                                   |                             |                             |                             |                             | PRESSURE      |                 | TEMPERATURE |             | INSTRUMENT<br>RANGE                                                                                                                                                               | CALIBRATION<br>RANGE | INSTRUMEN<br>T UNIT | CONTROL SYSTEM<br>(FROM/TO) | I/O TYPE            | SIGNAL TYPE         | NOTE         | REV.            |
| ITEM                                                                                                   | PROJECT PART                            | TAG NAME  | DESCRIPTION                                                 | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                                | SERVICE   | LOCATIO<br>N/<br>PACKAG<br>E NAME | DATA SHEET NO.              | HOO K UP DWG.<br>NO.        | LOOP DWG NO.                | LOCAION LAYOUT<br>DWG NO.   | DESIGN (BARG) | OPER.<br>(BARG) | DESIGN (°C) | OPER. (°C)  |                                                                                                                                                                                   |                      |                     |                             |                     |                     |              |                 |
| 71                                                                                                     | Slug Catcher System                     | EZSO-2112 | Limit Switch Open<br>(Included in ON-OFF Valve)             | CDH-112-0015-CN05-4"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 24.1          | 18              | 85          | 24.22       | -                                                                                                                                                                                 | -                    | -                   | FIELD-ESD                   | DI-NIS-R            | 24 VDC              |              | D01<br>Modified |
| 72                                                                                                     | Slug Catcher System                     | ESOV-2112 | ESD Solenoid Valve                                          | CDH-112-0015-CN05-4"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 24.1          | 18              | 85          | 24.22       | -                                                                                                                                                                                 | -                    | -                   | ESD-FIELD                   | DO-NIS-R            | 24VDC LOOP<br>POWER |              | D01<br>Modified |
| 73                                                                                                     | Slug Catcher System                     | XV-2112   | ON/OFF VAVLE (Ball Valve)                                   | CDH-112-0015-CN05-4"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 24.1          | 18              | 85          | 24.22       | -                                                                                                                                                                                 | -                    | -                   |                             |                     |                     |              | D01<br>Modified |
| 74                                                                                                     | Slug Catcher System                     | PIT-2115  | Pressure Indicating<br>Transmitter (Diaphragm)              | CDH-112-0015-CN05-4"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 24.1          | 18              | 85          | 24.22       | VTA                                                                                                                                                                               | 0-36 barg            | Barg                | FIELD-ESD                   | AI-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 75                                                                                                     | Slug Catcher System                     | TG-2112B  | Temperature Gauge (Bimetal)                                 | CDH-112-0013-CN05-3"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 38.5          | 31.5            | 85          | 23.22/8.82  | 0-100 °C                                                                                                                                                                          | -                    | °C                  | -                           | -                   | Note 2              |              | D01<br>Modified |
| 76                                                                                                     | Slug Catcher System                     | PG-2113B  | Pressure Gauge (Bourdon)                                    | CDH-112-0013-CN05-3"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 4.67          | 1.26            | 85          | 23.22/8.82  | 0-2 barg                                                                                                                                                                          | -                    | Barg                | -                           | -                   |                     |              | D01<br>Modified |
| 77                                                                                                     | Slug Catcher System                     | PIT-2116B | Pressure Indicating<br>Transmitter (Diaphragm)              | CDH-112-0013-CN05-3"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 24.1          | 19.5            | 85          | AMB         | VTA                                                                                                                                                                               | 0-39 barg            | Barg                | FIELD-DCS                   | AI-IS-NR            | 4-20 mA             |              | D01<br>Modified |
| 78                                                                                                     | Slug Catcher System                     | PG-2114B  | Pressure Gauge (Bourdon)                                    | CDH-111-0011-AS00-4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.5             | 85          | 23.22/8.82  | 0-2 barg                                                                                                                                                                          | -                    | Barg                | -                           | -                   |                     |              | D01<br>Modified |
| 79                                                                                                     | Slug Catcher System                     | PIT-2114B | Pressure Indicating<br>Transmitter (Diaphragm)              | CDH-111-0011-AS00-4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.5             | 85          | 23.22/8.82  | VTA                                                                                                                                                                               | 0-11 barg            | Barg                | FIELD-ESD                   | AI-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 80                                                                                                     | Slug Catcher System                     | PDG-2114B | Differential Pressure Gauge<br>(Diaphragm)                  | CDH-111-0011-AS00-4"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0004<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.5             | 85          | 23.22/8.82  | VTA                                                                                                                                                                               | 0-1 bara             | Bara                | -                           | -                   |                     |              | D01<br>Modified |
| 81                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | FG-2111   | Rotameter                                                   | CHM-112-0003-AS00-3/4"-NP                                                                                                | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62            | ATM             | 55          | AMB         | VTA                                                                                                                                                                               | -                    | -                   | -                           | -                   |                     |              | D01<br>Modified |
| 82                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | TIT-2112  | Temperature Indicating<br>Transmitter (RTD)                 | GAS-111-0005-AN07-10"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | 0-100 °C                                                                                                                                                                          | -                    | °C                  | FIELD-DCS                   | AI-IS-NR            | 4-20 mA             | Note 2       | D01<br>Modified |
| 83                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | PIT-2116  | Pressure Indicating<br>Transmitter (Diaphragm)              | GAS-111-0005-AN07-10"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | 0-11 barg            | Barg                | FIELD-ESD                   | AI-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 84                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LIT-2117  | Level Indicating Transmitter                                | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | -                    | -                   | FIELD-ESD                   | AI-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 85                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | PIT-2117  | Pressure Indicating<br>Transmitter (Diaphragm)              | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | 0-11 barg            | Barg                | FIELD-DCS                   | AI-IS-NR            | 4-20 mA             |              | D01<br>Modified |
| 86                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | TG-2113   | Temperature Gauge (Bimetal)                                 | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | 0-100 °C                                                                                                                                                                          | -                    | °C                  | -                           | -                   | Note 2              |              | D01<br>Modified |
| 87                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | PG-2114   | Pressure Gauge (Bourdon)                                    | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | 0-10 barg                                                                                                                                                                         | -                    | Barg                | -                           | -                   |                     |              | D01<br>Modified |
| 88                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | PDIT-2112 | Differential Pressure Indicating<br>Transmitter (Diaphragm) | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | 0-1 bara             | Bara                | FIELD-DCS                   | AI-IS-NR            | 4-20 mA             |              | D01<br>Modified |
| 89                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LG-2115   | Level Gauge                                                 | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | -                    | -                   | -                           | -                   |                     |              | D01<br>Modified |
| 90                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LIT-2116  | Level Indicating Transmitter                                | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | -                    | -                   | FIELD-DCS                   | AI-IS-NR            | 4-20 mA             |              | D01<br>Modified |
| 91                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LG-2116   | Level Gauge (Reflex)                                        | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | -                    | -                   | -                           | -                   |                     |              | D01<br>Modified |
| 92                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LIT-2119  | Level Indicating Transmitter                                | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | -                    | -                   | FIELD-DCS                   | AI-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 93                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LCV-2114  | Level Control Valve (Globe<br>Valve)                        | CDH-111-0019-AS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | DCS                               | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   | DCS-FIELD                   | AO-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 94                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | LIT-2118  | Level Indicating Transmitter                                | V-2105                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | V-2105                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | VTA                                                                                                                                                                               | -                    | -                   | FIELD-ESD                   | AI-IS-R             | 4-20 mA             |              | D01<br>Modified |
| 95                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | EZSC-2113 | Limit Switch Close<br>(Included in ON-OFF Valve)            | CDH-111-0019-AS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   | FIELD-DCS                   | DI-NIS-NR           | 24 VDC              |              | D01<br>Modified |
| 96                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | EZSO-2113 | Limit Switch Open<br>(Included in ON-OFF Valve)             | CDH-111-0019-AS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   | FIELD-DCS                   | DI-NIS-NR           | 24 VDC              |              | D01<br>Modified |
| 97                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | ESOV-2113 | ESD Solenoid Valve                                          | CDH-111-0019-AS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   | ESD-FIELD                   | DO-NIS-R            | 24VDC LOOP<br>POWER |              | D01<br>Modified |
| 98                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | ESDV-2113 | Emergency Shut Down Valve<br>(Ball Valve)                   | CDH-111-0019-AS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   |                             |                     |                     |              | D01<br>Modified |
| 99                                                                                                     | Gas Compression Inlet Knock Out<br>Drum | PSV-2113  | Pressure Safety Valve                                       | GAS-111-0021-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   | -                           | -                   |                     |              | D01<br>Modified |
| 100                                                                                                    | Gas Compression Inlet Knock Out<br>Drum | PSV-2114  | Pressure Safety Valve                                       | GAS-111-0022-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | Barg                | -                           | -                   | -                   |              | D01<br>Modified |
| 101                                                                                                    | Gas Compression Inlet Knock Out<br>Drum | CP-2112   | Corrosion Probe (LPR probes)                                | GAS-111-0025-AN07-10"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | mm                  | -                           | -                   | -                   |              | D01<br>Modified |
| 102                                                                                                    | Gas Compression Inlet Knock Out<br>Drum | CC-2112   | Corrosion Coupon (Strip<br>Ladder)                          | GAS-111-0025-AN07-10"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0005             | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | mm                  | -                           | -                   | -                   |              | D01<br>Modified |
| 103                                                                                                    | Gas Compression Inlet Knock Out<br>Drum | TG-2114   | Temperature Gauge (Bimetal)                                 | GAS-111-0025-AN07-10"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | 0-100 °C                                                                                                                                                                          | -                    | °C                  | -                           | -                   | Note 2              |              | D01<br>Modified |
| 104                                                                                                    | Gas Compression Inlet Knock Out<br>Drum | PG-2115   | Pressure Gauge (Bourdon)                                    | GAS-111-0025-AN07-10"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | 0-10 barg                                                                                                                                                                         | -                    | Barg                | -                           | -                   |                     |              | D01<br>Modified |
| 105                                                                                                    | Gas Compression Inlet Knock Out<br>Drum | XZSC-2110 | Limit Switch Close<br>(Included in ON-OFF Valve)            | FL-112-0017-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3             | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -                    | -                   | FIELD-DCS                   | DI-NIS-NR           | 24 VDC              | By<br>Vendor | D01<br>Modified |



|                                                                                                        |                                         |                                   |                                                          |                                                                                                                          |                                      |         |                         |                             |                               |                             |                             |                                                                                                                                                                                                                                                                      |              |             |             |                     |                   |                 |                          |           |                  |           |              |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------|---------------------|-------------------|-----------------|--------------------------|-----------|------------------|-----------|--------------|
| <div><br/>NISOC</div> |                                         |                                   |                                                          | <div>تنگداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |         |                         |                             |                               |                             |                             | <div></div> |              |             |             |                     |                   |                 |                          |           |                  |           |              |
|                                                                                                        |                                         |                                   |                                                          |                                                                                                                          |                                      |         |                         |                             |                               |                             |                             |                                                                                                                                                                                                                                                                      |              |             |             |                     |                   |                 |                          |           |                  |           |              |
|                                                                                                        |                                         |                                   |                                                          | شماره پیمان:                                                                                                             |                                      |         |                         | پروژه                       | بسته کاری                     | صادرکننده                   | نماینده                     | رشته                                                                                                                                                                                                                                                                 | نوع مدرک     | سریال       | نسخه        | شماره صفحه: ۷ از ۱۹ |                   |                 |                          |           |                  |           |              |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                                         |                                   |                                                          | BK                                                                                                                       | GCS                                  | PEDCO   | 120                     | IN                          | LI                            | 0001                        | D00                         |                                                                                                                                                                                                                                                                      |              |             |             |                     |                   |                 |                          |           |                  |           |              |
| IDENTIFICATION                                                                                         |                                         |                                   |                                                          | REFERENCE                                                                                                                |                                      |         |                         |                             |                               |                             |                             | PRESSURE                                                                                                                                                                                                                                                             |              | TEMPERATURE |             | INSTRUMENT RANGE    | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE      | NOTE      | REV.         |
| ITEM                                                                                                   | PROJECT PART                            | TAG NAME                          | DESCRIPTION                                              | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE | LOCATION / PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.              | LOOP DWG NO.                | LOCATION LAYOUT DWG NO.     | DESIGN (BARG)                                                                                                                                                                                                                                                        | OPER. (BARG) | DESIGN (°C) | OPER. (°C)  |                     |                   |                 |                          |           |                  |           |              |
| 106                                                                                                    | Gas Compression Inlet Knock Out Drum    | XZSO-2110                         | Limit Switch Open (Included in ON-OFF Valve)             | FL-112-0017-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005          | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | By Vendor | D01 Modified |
| 107                                                                                                    | Gas Compression Inlet Knock Out Drum    | XV-2110                           | ON/OFF VAVLE (Ball Valve)                                | FL-112-0017-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005          | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | -                        | -         | -                | -         | D01 Modified |
| 108                                                                                                    | Gas Compression Inlet Knock Out Drum    | PSOV-2110                         | Process Solenoid Valve                                   | FL-112-0017-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005          | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | -                        | -         | -                | -         | D01 Modified |
| 109                                                                                                    | Gas Compression Inlet Knock Out Drum    | RO-2112                           | Restriction Orifice                                      | FL-112-0017-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0005          | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | -                        | -         | -                | -         | D01 Modified |
| 110                                                                                                    | 1st Stage Gas Compression Suction Drums | PIT-2121A                         | Pressure Indicating Transmitter (Diaphragm)              | GAS-111-0031A-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | VTA                 | 0-10 barg         | Barg            | FIELD-DCS                | AI-IS-R   | 4-20 mA          |           | D01 Modified |
| 111                                                                                                    | 1st Stage Gas Compression Suction Drums | PCV-2123A (By Compressor Vendor)  | Pressure Control Valve (Globe Valve)                     | GAS-111-0045A-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | UCP                     | By Compressor Vendor        | By Compressor Vendor          | By Compressor Vendor        | By Compressor Vendor        | 62                                                                                                                                                                                                                                                                   | 54.1         | 175         | 60          | -                   | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          |           | D01 Modified |
| 112                                                                                                    | 1st Stage Gas Compression Suction Drums | CZSC-2123A (By Compressor Vendor) | Limit Switch Close (Included in Control Valve)           | GAS-111-0045A-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | By Compressor Vendor        | By Compressor Vendor          | By Compressor Vendor        | By Compressor Vendor        | 62                                                                                                                                                                                                                                                                   | 54.1         | 85          | 60          | -                   | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 113                                                                                                    | 1st Stage Gas Compression Suction Drums | CZSO-2123A (By Compressor Vendor) | Limit Switch Open (Included in Control Valve)            | GAS-111-0045A-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | By Compressor Vendor        | By Compressor Vendor          | By Compressor Vendor        | By Compressor Vendor        | 62                                                                                                                                                                                                                                                                   | 54.1         | 85          | 60          | -                   | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 114                                                                                                    | 1st Stage Gas Compression Suction Drums | PSV-2121A                         | Pressure Safety Valve                                    | GAS-111-0029A-AN07-2"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 115                                                                                                    | 1st Stage Gas Compression Suction Drums | LIT-2122A                         | Level Indicating Transmitter                             | V-2101-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | V-2101-A                | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | VTA                 | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          |           | D01 Modified |
| 116                                                                                                    | 1st Stage Gas Compression Suction Drums | TG-2121A                          | Temperature Gauge (Bimetal)                              | V-2101-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | V-2101-A                | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | 0-100 °C            | -                 | °C              | -                        | -         | -                | Note 2    | D01 Modified |
| 117                                                                                                    | 1st Stage Gas Compression Suction Drums | PG-2121A                          | Pressure Gauge (Bourdon)                                 | V-2101-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | 0-10 barg           | -                 | Barg            | -                        | -         | -                |           | D01 Modified |
| 118                                                                                                    | 1st Stage Gas Compression Suction Drums | PDIT-2121A                        | Differential Pressure Indicating Transmitter (Diaphragm) | V-2101-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | V-2101-A                | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | VTA                 | 0-1 bara          | Bara            | FIELD-DCS                | AI-IS-NR  | 4-20 mA          |           | D01 Modified |
| 119                                                                                                    | 1st Stage Gas Compression Suction Drums | LG-2121A                          | Level Gauge (Reflex)                                     | V-2101-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | V-2101-A                | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | VTA                 | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 120                                                                                                    | 1st Stage Gas Compression Suction Drums | LIT-2121A                         | Level Indicating Transmitter                             | V-2101-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | V-2101-A                | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | VTA                 | -                 | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA          |           | D01 Modified |
| 121                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSC-2122A                        | Limit Switch Close (Included in ON-OFF Valve)            | CDH-112-0021A-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |           | D01 Modified |
| 122                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSO-2122A                        | Limit Switch Open (Included in ON-OFF Valve)             | CDH-112-0021A-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -         | D01 Modified |
| 123                                                                                                    | 1st Stage Gas Compression Suction Drums | XV-2122A                          | ON/OFF VAVLE (Ball Valve)                                | CDH-112-0021A-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | -                        | -         | -                | -         | D01 Modified |
| 124                                                                                                    | 1st Stage Gas Compression Suction Drums | PSOV-2122A                        | Process Solenoid Valve                                   | CDH-112-0021A-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER |           | D01 Modified |
| 125                                                                                                    | 1st Stage Gas Compression Suction Drums | ESOV-2122A                        | ESD Solenoid Valve                                       | CDH-112-0021A-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | LIQUID  | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER |           | D01 Modified |
| 126                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSC-2121A                        | Limit Switch Close (Included in ON-OFF Valve)            | GAS-111-0026A-AN07-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | -                        |           | -                | -         | D01 Modified |
| 127                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSO-2121A                        | Limit Switch Open (Included in ON-OFF Valve)             | GAS-111-0026A-AN07-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | -                        |           | -                | -         | D01 Modified |
| 128                                                                                                    | 1st Stage Gas Compression Suction Drums | PSOV-2121A                        | Process Solenoid Valve                                   | GAS-111-0026A-AN07-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | UCP-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -         | D01 Modified |
| 129                                                                                                    | 1st Stage Gas Compression Suction Drums | ESOV-2121A                        | ESD Solenoid Valve                                       | GAS-111-0026A-AN07-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -         | D01 Modified |
| 130                                                                                                    | 1st Stage Gas Compression Suction Drums | XV-2121A                          | ON/OFF VAVLE (Ball Valve)                                | GAS-111-0026A-AN07-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                                                                                                                                                                                                                                                                    | 5.3          | 85          | 37.17/19.23 | -                   | -                 | -               | -                        | -         | -                | -         | D01 Modified |
| 131                                                                                                    | 1st Stage Gas Compression Suction Drums | PIT-2121B                         | Pressure Indicating Transmitter (Diaphragm)              | GAS-111-0031B-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | VTA                 | 0-10 barg         | Barg            | FIELD-DCS                | AI-IS-R   | 4-20 mA          |           | D01 Modified |
| 132                                                                                                    | 1st Stage Gas Compression Suction Drums | PCV-2123B                         | Pressure Control Valve (Globe Valve)                     | GAS-111-0045B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS     | UCP                     | By Compressor Vendor        | By Compressor Vendor          | By Compressor Vendor        | By Compressor Vendor        | 62                                                                                                                                                                                                                                                                   | 54.1         | 175         | 60          | -                   | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          |           | D01 Modified |
| 133                                                                                                    | 1st Stage Gas Compression Suction Drums | CZSC-2123B (By Compressor Vendor) | Limit Switch Close (Included in Control Valve)           | GAS-111-0045A-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS     | LOCAL                   | By Compressor Vendor        | By Compressor Vendor          | By Compressor Vendor        | By Compressor Vendor        | 62                                                                                                                                                                                                                                                                   | 54.1         | 85          | 60          | -                   | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 134                                                                                                    | 1st Stage Gas Compression Suction Drums | CZSO-2123B (By Compressor Vendor) | Limit Switch Open (Included in Control Valve)            | GAS-111-0045A-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS     | LOCAL                   | By Compressor Vendor        | By Compressor Vendor          | By Compressor Vendor        | By Compressor Vendor        | 62                                                                                                                                                                                                                                                                   | 54.1         | 85          | 60          | -                   | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 135                                                                                                    | 1st Stage Gas Compression Suction Drums | PSV-2121B                         | Pressure Safety Valve                                    | GAS-111-0029B-AN07-2"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 4.9          | 85          | 36.78/18.88 | -                   | -                 | -               | -                        | -         | -                |           | D01 Modified |
| 136                                                                                                    | 1st Stage Gas Compression Suction Drums | LIT-2122B                         | Level Indicating Transmitter                             | V-2101-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID  | V-2101-B                | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002   | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | VTA                 | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          |           | D01 Modified |
| 137                                                                                                    | 1st Stage Gas Compression Suction Drums | TG-2121B                          | Temperature Gauge (Bimetal)                              | V-2101-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID  | V-2101-B                | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002   | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                                                                                                                | 5.1          | 85          | 36.92       | 0-100 °C            | -                 | °C              | -                        | -         | -                | Note 2    | D01 Modified |
| 138                                                                                                    | 1st Stage Gas Compression Suction Drums | PG-2121B                          | Pressure Gauge (Bourdon)                                 | V-2101-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002</ |                             |                             |                                                                                                                                                                                                                                                                      |              |             |             |                     |                   |                 |                          |           |                  |           |              |



|                                                                                                        |                                         |                                   |                                                          |                                                                                                                          |                                      |           |                        |                             |                             |                             |                             |               |              |             |             |                                                                                                                                                                                   |           |             |                     |                  |                   |                 |                          |          |             |      |      |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------|--------------|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------|---------------------|------------------|-------------------|-----------------|--------------------------|----------|-------------|------|------|
| <div><br/>NISOC</div> |                                         |                                   |                                                          | <div>تنگداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |           |                        |                             |                             |                             |                             |               |              |             |             | <div></div> |           |             |                     |                  |                   |                 |                          |          |             |      |      |
|                                                                                                        |                                         |                                   |                                                          |                                                                                                                          |                                      |           |                        |                             |                             |                             |                             |               |              |             |             |                                                                                                                                                                                   |           |             |                     |                  |                   |                 |                          |          |             |      |      |
|                                                                                                        |                                         |                                   |                                                          | INSTRUMENT INDEX                                                                                                         |                                      |           |                        |                             |                             |                             |                             |               |              |             |             |                                                                                                                                                                                   |           |             |                     |                  |                   |                 |                          |          |             |      |      |
| شماره پیمان:                                                                                           |                                         |                                   |                                                          | پروژه                                                                                                                    |                                      | بسته کاری |                        | صادرکننده                   |                             | نمیدلات                     |                             | رشته          |              | نوع مدرک    |             | سریال                                                                                                                                                                             |           | نسخه        | شماره صفحه: ۸ از ۱۹ |                  |                   |                 |                          |          |             |      |      |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                                         |                                   |                                                          | BK                                                                                                                       |                                      | GCS       |                        | PEDCO                       |                             | 120                         |                             | IN            |              | LI          |             | 0001                                                                                                                                                                              |           | D00         |                     |                  |                   |                 |                          |          |             |      |      |
| IDENTIFICATION                                                                                         |                                         |                                   |                                                          | REFERENCE                                                                                                                |                                      |           |                        |                             |                             |                             |                             |               |              |             |             | PRESSURE                                                                                                                                                                          |           | TEMPERATURE |                     | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE | SIGNAL TYPE | NOTE | REV. |
| ITEM                                                                                                   | PROJECT PART                            | TAG NAME                          | DESCRIPTION                                              | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE   | LOCATION/ PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCAION LAYOUT DWG NO.      | DESIGN (BARG) | OPER. (BARG) | DESIGN (°C) | OPER. (°C)  |                                                                                                                                                                                   |           |             |                     |                  |                   |                 |                          |          |             |      |      |
| 139                                                                                                    | 1st Stage Gas Compression Suction Drums | PDIT-2121B                        | Differential Pressure Indicating Transmitter (Diaphragm) | V-2101-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | V-2101-B               | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-DG-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | 0-1 bara  | Bara        | FIELD-DCS           | AI-IS-NR         | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 140                                                                                                    | 1st Stage Gas Compression Suction Drums | LG-2121B                          | Level Gauge (Reflex)                                     | V-2101-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID    | V-2101-B               | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | -         | -           | -                   | -                | -                 |                 | D01 Modified             |          |             |      |      |
| 141                                                                                                    | 1st Stage Gas Compression Suction Drums | LIT-2121B                         | Level Indicating Transmitter                             | V-2101-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID    | V-2101-B               | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | -         | -           | FIELD-DCS           | AI-IS-R          | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 142                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSC-2122B                        | Limit Switch Close (Included in ON-OFF Valve)            | CDH-112-0021B-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | FIELD-DCS           | DI-NIS-NR        | 24 VDC            | -               | D01 Modified             |          |             |      |      |
| 143                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSO-2122B                        | Limit Switch Open (Included in ON-OFF Valve)             | CDH-112-0021B-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | FIELD-DCS           | DI-NIS-NR        | 24 VDC            | -               | D01 Modified             |          |             |      |      |
| 144                                                                                                    | 1st Stage Gas Compression Suction Drums | XV-2122B                          | ON/OFF VAVLE (Ball Valve)                                | CDH-112-0021B-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 | -               | D01 Modified             |          |             |      |      |
| 145                                                                                                    | 1st Stage Gas Compression Suction Drums | PSOV-2122B                        | Process Solenoid Valve                                   | CDH-112-0021B-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | DCS-FIELD           | DO-NIS-NR        | 24VDC LOOP POWER  |                 | D01 Modified             |          |             |      |      |
| 146                                                                                                    | 1st Stage Gas Compression Suction Drums | ESOV-2122B                        | ESD Solenoid Valve                                       | CDH-112-0021B-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | ESD-FIELD           | DO-NIS-R         | 24VDC LOOP POWER  |                 | D01 Modified             |          |             |      |      |
| 147                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSC-2121B                        | Limit Switch Close (Included in ON-OFF Valve)            | GAS-111-0026B-AN27-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3          | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 | -               | D01 Modified             |          |             |      |      |
| 148                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSO-2121B                        | Limit Switch Open (Included in ON-OFF Valve)             | GAS-111-0026B-AN27-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3          | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 | -               | D01 Modified             |          |             |      |      |
| 149                                                                                                    | 1st Stage Gas Compression Suction Drums | PSOV-2121B                        | Process Solenoid Valve                                   | GAS-111-0026B-AN27-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3          | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -         | -           | UCP-FIELD           | DO-NIS-NR        | 24VDC LOOP POWER  | -               | D01 Modified             |          |             |      |      |
| 150                                                                                                    | 1st Stage Gas Compression Suction Drums | ESOV-2121B                        | ESD Solenoid Valve                                       | GAS-111-0026B-AN27-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3          | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -         | -           | ESD-FIELD           | DO-NIS-R         | 24VDC LOOP POWER  | -               | D01 Modified             |          |             |      |      |
| 151                                                                                                    | 1st Stage Gas Compression Suction Drums | XV-2121B                          | ON/OFF VAVLE (Ball Valve)                                | GAS-111-0026B-AN27-8"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9             | 5.3          | 85          | 37.17/19.23 | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 | -               | D01 Modified             |          |             |      |      |
| 152                                                                                                    | 1st Stage Gas Compression Suction Drums | PIT-2121C                         | Pressure Indicating Transmitter (Diaphragm)              | GAS-111-0031C-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | VTA                                                                                                                                                                               | 0-10 barg | Barg        | FIELD-DCS           | AI-IS-R          | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 153                                                                                                    | 1st Stage Gas Compression Suction Drums | PCV-2123C                         | Pressure Control Valve (Globe Valve)                     | GAS-111-0045C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | UCP                    | By Compressor Vendor        | By Compressor Vendor        | By Compressor Vendor        | By Compressor Vendor        | 62            | 54.1         | 175         | 60          | -                                                                                                                                                                                 | -         | -           | DCS-FIELD           | AO-IS-R          | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 154                                                                                                    | 1st Stage Gas Compression Suction Drums | CZSC-2123C (By Compressor Vendor) | Limit Switch Close (Included in Control Valve)           | GAS-111-0045C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | LOCAL                  | By Compressor Vendor        | By Compressor Vendor        | By Compressor Vendor        | By Compressor Vendor        | 62            | 54.1         | 85          | 60          | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 |                 | D01 Modified             |          |             |      |      |
| 155                                                                                                    | 1st Stage Gas Compression Suction Drums | CZSO-2123C (By Compressor Vendor) | Limit Switch Open (Included in Control Valve)            | GAS-111-0045C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | LOCAL                  | By Compressor Vendor        | By Compressor Vendor        | By Compressor Vendor        | By Compressor Vendor        | 62            | 54.1         | 85          | 60          | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 |                 | D01 Modified             |          |             |      |      |
| 156                                                                                                    | 1st Stage Gas Compression Suction Drums | PSV-2121C                         | Pressure Safety Valve                                    | GAS-111-0029C-AN07-2"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | -                   | -                | -                 |                 | D01 Modified             |          |             |      |      |
| 157                                                                                                    | 1st Stage Gas Compression Suction Drums | LIT-2122C                         | Level Indicating Transmitter                             | V-2101-C                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | V-2101-C               | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | -         | -           | FIELD-ESD           | AI-IS-R          | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 158                                                                                                    | 1st Stage Gas Compression Suction Drums | TG-2121C                          | Temperature Gauge (Bimetal)                              | V-2101-C                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | V-2101-C               | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | 0-100 °C                                                                                                                                                                          | -         | °C          | -                   | -                | -                 | Note 2          | D01 Modified             |          |             |      |      |
| 159                                                                                                    | 1st Stage Gas Compression Suction Drums | PG-2121C                          | Pressure Gauge (Bourdon)                                 | V-2101-C                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | 0-10 barg                                                                                                                                                                         | -         | Barg        | -                   | -                | -                 |                 | D01 Modified             |          |             |      |      |
| 160                                                                                                    | 1st Stage Gas Compression Suction Drums | PDIT-2121C                        | Differential Pressure Indicating Transmitter (Diaphragm) | V-2101-C                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | GAS       | V-2101-C               | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | 0-1 bara  | Bara        | FIELD-DCS           | AI-IS-NR         | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 161                                                                                                    | 1st Stage Gas Compression Suction Drums | LG-2121C                          | Level Gauge (Reflex)                                     | V-2101-C                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | V-2101-C               | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | -         | -           | -                   | -                | -                 |                 | D01 Modified             |          |             |      |      |
| 162                                                                                                    | 1st Stage Gas Compression Suction Drums | LIT-2121C                         | Level Indicating Transmitter                             | V-2101-C                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | V-2101-C               | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 5.1          | 85          | 36.92       | VTA                                                                                                                                                                               | -         | -           | FIELD-DCS           | AI-IS-R          | 4-20 mA           |                 | D01 Modified             |          |             |      |      |
| 163                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSC-2122C                        | Limit Switch Close (Included in ON-OFF Valve)            | CDH-112-0021C-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | FIELD-DCS           | DI-NIS-NR        | 24 VDC            | -               | D01 Modified             |          |             |      |      |
| 164                                                                                                    | 1st Stage Gas Compression Suction Drums | XZSO-2122C                        | Limit Switch Open (Included in ON-OFF Valve)             | CDH-112-0021C-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9         | 4.9          | 85          | 36.78/18.88 | -                                                                                                                                                                                 | -         | -           | FIELD-DCS           | DI-NIS-NR        | 24 VDC            | -               | D01 Modified             |          |             |      |      |
| 165                                                                                                    | 1st Stage Gas Compression Suction Drums | XV-2122C                          | ON/OFF VAVLE (Ball Valve)                                | CDH-112-0021C-AS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0006 (3 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0-IN |               |              |             |             |                                                                                                                                                                                   |           |             |                     |                  |                   |                 |                          |          |             |      |      |



|                                                                                                        |                                       |           |                                             |                                                                                                                          |                                      |           |                                   |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |             |                  |                   |                 |                          |          |             |        |              |
|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|-------------|------------------|-------------------|-----------------|--------------------------|----------|-------------|--------|--------------|
| <div><br/>NISOC</div> |                                       |           |                                             | <div>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |           |                                   |                             |                             |                             |                             | <div></div> |                 |             |             |                  |                   |                 |                          |          |             |        |              |
|                                                                                                        |                                       |           |                                             |                                                                                                                          |                                      |           |                                   |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |             |                  |                   |                 |                          |          |             |        |              |
|                                                                                                        |                                       |           |                                             | INSTRUMENT INDEX                                                                                                         |                                      |           |                                   |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |             |                  |                   |                 |                          |          |             |        |              |
| شماره پیمان:                                                                                           |                                       |           |                                             | پروژه                                                                                                                    | بسته کاری                            | صادرکننده | نصبیات                            | رشته                        | نوع مدرک                    | سریال                       | نسخه                        | شماره صفحه: ۹ از ۱۹                                                                                                                                                               |                 |             |             |                  |                   |                 |                          |          |             |        |              |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                                       |           |                                             | BK                                                                                                                       | GCS                                  | PEDCO     | 120                               | IN                          | LI                          | 0001                        | D00                         |                                                                                                                                                                                   |                 |             |             |                  |                   |                 |                          |          |             |        |              |
| IDENTIFICATION                                                                                         |                                       |           |                                             | REFERENCE                                                                                                                |                                      |           |                                   |                             |                             |                             |                             | PRESSURE                                                                                                                                                                          |                 | TEMPERATURE |             | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE | SIGNAL TYPE | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART                          | TAG NAME  | DESCRIPTION                                 | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE   | LOCATIO<br>N/<br>PACKAG<br>E NAME | DATA SHEET NO.              | HOOK UP DWG.<br>NO.         | LOOP DWG NO.                | LOCAION LAYOUT<br>DWG NO.   | DESIGN (BARG)                                                                                                                                                                     | OPER.<br>(BARG) | DESIGN (°C) | OPER. (°C)  |                  |                   |                 |                          |          |             |        |              |
| 175                                                                                                    | 1st Stage Gas Compression Compressors | PIT-2122A | Pressure Indicating Transmitter (Diaphragm) | GAS-111-0031A-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | VTA              | 0-10 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 176                                                                                                    | 1st Stage Gas Compression Compressors | PG-2122A  | Pressure Gauge (Bourdon)                    | GAS-111-0031A-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-10 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 177                                                                                                    | 1st Stage Gas Compression Compressors | PSV-2122A | Pressure Safety Valve                       | GAS-111-0032A-CN05-3"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 178                                                                                                    | 1st Stage Gas Compression Compressors | PSV-2123A | Pressure Safety Valve                       | GAS-111-0033A-CN05-3"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 179                                                                                                    | 1st Stage Gas Compression Compressors | PIT-2125A | Pressure Indicating Transmitter (Diaphragm) | GAS-111-0036A-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | VTA              | 0-38 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 180                                                                                                    | 1st Stage Gas Compression Compressors | TIT-2124A | Temperature Indicating Transmitter (RTD)    | GAS-111-0036A-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-250 °C         | -                 | °C              | FIELD-ESD                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 181                                                                                                    | 1st Stage Gas Compression Compressors | TG-2123A  | Temperature Gauge (Bimetal)                 | GAS-111-0036A-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-250 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 182                                                                                                    | 1st Stage Gas Compression Compressors | PG-2123A  | Pressure Gauge (Bourdon)                    | GAS-111-0036A-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (1 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-40 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 183                                                                                                    | 1st Stage Gas Compression Compressors | TG-2122B  | Temperature Gauge (Bimetal)                 | GAS-111-0031B-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-100 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 184                                                                                                    | 1st Stage Gas Compression Compressors | TIT-2121B | Temperature Indicating Transmitter (RTD)    | GAS-111-0031B-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-100 °C         | -                 | °C              | FIELD-DCS                | AI-IS-NR | 4-20 mA     | Note 2 | D01 Modified |
| 185                                                                                                    | 1st Stage Gas Compression Compressors | PIT-2122B | Pressure Indicating Transmitter (Diaphragm) | GAS-111-0031B-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | VTA              | 0-10 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 186                                                                                                    | 1st Stage Gas Compression Compressors | PG-2122B  | Pressure Gauge (Bourdon)                    | GAS-111-0031B-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-10 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 187                                                                                                    | 1st Stage Gas Compression Compressors | PSV-2122B | Pressure Safety Valve                       | GAS-111-0032B-CN05-3"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 188                                                                                                    | 1st Stage Gas Compression Compressors | PSV-2123B | Pressure Safety Valve                       | GAS-111-0033B-CN05-3"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 189                                                                                                    | 1st Stage Gas Compression Compressors | PIT-2125B | Pressure Indicating Transmitter (Diaphragm) | GAS-111-0036B-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | VTA              | 0-38 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 190                                                                                                    | 1st Stage Gas Compression Compressors | TIT-2124B | Temperature Indicating Transmitter (RTD)    | GAS-111-0036B-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-250 °C         | -                 | °C              | FIELD-ESD                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 191                                                                                                    | 1st Stage Gas Compression Compressors | TG-2123B  | Temperature Gauge (Bimetal)                 | GAS-111-0036B-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-250 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 192                                                                                                    | 1st Stage Gas Compression Compressors | PG-2123B  | Pressure Gauge (Bourdon)                    | GAS-111-0036B-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (2 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-40 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 193                                                                                                    | 1st Stage Gas Compression Compressors | TG-2122C  | Temperature Gauge (Bimetal)                 | GAS-111-0031C-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-100 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 194                                                                                                    | 1st Stage Gas Compression Compressors | TIT-2121C | Temperature Indicating Transmitter (RTD)    | GAS-111-0031C-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-100 °C         | -                 | °C              | FIELD-DCS                | AI-IS-NR | 4-20 mA     | Note 2 | D01 Modified |
| 195                                                                                                    | 1st Stage Gas Compression Compressors | PIT-2122C | Pressure Indicating Transmitter (Diaphragm) | GAS-111-0031C-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | VTA              | 0-10 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 196                                                                                                    | 1st Stage Gas Compression Compressors | PG-2122C  | Pressure Gauge (Bourdon)                    | GAS-111-0031C-AN05-8"-ET                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                                                                                                                                                                             | 4.9             | 85          | 36.78/18.88 | 0-10 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 197                                                                                                    | 1st Stage Gas Compression Compressors | PSV-2122C | Pressure Safety Valve                       | GAS-111-0032C-CN05-3"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 198                                                                                                    | 1st Stage Gas Compression Compressors | PSV-2123C | Pressure Safety Valve                       | GAS-111-0033C-CN05-3"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 199                                                                                                    | 1st Stage Gas Compression Compressors | PIT-2125C | Pressure Indicating Transmitter (Diaphragm) | GAS-111-0036C-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | VTA              | 0-38 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 200                                                                                                    | 1st Stage Gas Compression Compressors | TIT-2124C | Temperature Indicating Transmitter (RTD)    | GAS-111-0036C-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-250 °C         | -                 | °C              | FIELD-ESD                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 201                                                                                                    | 1st Stage Gas Compression Compressors | TG-2123C  | Temperature Gauge (Bimetal)                 | GAS-111-0036C-CN05-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0007 (3 of 3) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 22                                                                                                                                                                                | 19              | 155         | 124.8/113.1 | 0-250 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 202                                                                                                    | 1st Stage Gas Compression Compressors | PG-2123C  |                                             |                                                                                                                          |                                      |           |                                   |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |             |                  |                   |                 |                          |          |             |        |              |



|                                                                                                        |                                         |            |                                                          |                                                                                                                          |                                      |         |                          |                             |                             |                             |                             |               |              |             |            |                                                                                                                                                                                   |                   |                 |                          |                      |                  |        |              |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|--------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------|--------------|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|--------------------------|----------------------|------------------|--------|--------------|
| <div><br/>NISOC</div> |                                         |            |                                                          | <div>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |         |                          |                             |                             |                             |                             |               |              |             |            | <div></div> |                   |                 |                          |                      |                  |        |              |
|                                                                                                        |                                         |            |                                                          |                                                                                                                          |                                      |         |                          |                             |                             |                             |                             |               |              |             |            |                                                                                                                                                                                   |                   |                 |                          | INSTRUMENT INDEX     |                  |        |              |
|                                                                                                        |                                         |            |                                                          | شماره پیمان:                                                                                                             |                                      |         |                          | پروژه                       | بسته کاری                   | صادر کننده                  | نصبیلات                     | رشته          | نوع مدرک     | سریال       | نسخه       |                                                                                                                                                                                   |                   |                 |                          | شماره صفحه: ۱۰ از ۱۹ |                  |        |              |
| ۰۵۴ - ۰۷۲ - ۹۱۸۵                                                                                       |                                         |            |                                                          | BK                                                                                                                       | GCS                                  | PEDCO   | 120                      | IN                          | LI                          | 0001                        | D00                         |               |              |             |            |                                                                                                                                                                                   |                   |                 |                          |                      |                  |        |              |
| IDENTIFICATION                                                                                         |                                         |            |                                                          | REFERENCE                                                                                                                |                                      |         |                          |                             |                             |                             |                             | PRESSURE      |              | TEMPERATURE |            | INSTRUMENT RANGE                                                                                                                                                                  | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE             | SIGNAL TYPE      | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART                            | TAG NAME   | DESCRIPTION                                              | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE | LOCATIO N/ PACKAG E NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCAION LAYOUT DWG NO.      | DESIGN (BARG) | OPER. (BARG) | DESIGN (°C) | OPER. (°C) |                                                                                                                                                                                   |                   |                 |                          |                      |                  |        |              |
| 211                                                                                                    | 1st Stage Gas Compression Air Coolers   | TIT-2126C  | Temperature Indicating Transmitter (RTD)                 | GAS-111-0037C-CS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.4       | 60         | 0-160 °C                                                                                                                                                                          | -                 | °C              | FIELD-DCS                | AI-IS-R              | 4-20 mA          | Note 2 | D01 Modified |
| 212                                                                                                    | 1st Stage Gas Compression Air Coolers   | TIT-2125C  | Temperature Indicating Transmitter (RTD)                 | GAS-111-0037C-CS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.4       | 60         | 0-160 °C                                                                                                                                                                          | -                 | °C              | FIELD-ESD                | AI-IS-R              | 4-20 mA          | Note 2 | D01 Modified |
| 213                                                                                                    | 1st Stage Gas Compression Air Coolers   | TG-2124C   | Temperature Gauge (Bimetal)                              | GAS-111-0037C-CS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.4       | 60         | 0-160 °C                                                                                                                                                                          | -                 | °C              | -                        | -                    | -                | Note 2 | D01 Modified |
| 214                                                                                                    | 1st Stage Gas Compression Air Coolers   | PG-2124C   | Pressure Gauge (Bourdon)                                 | GAS-111-0037C-CS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0008 (3 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.4       | 60         | 0-40 barg                                                                                                                                                                         | -                 | Barg            | -                        | -                    | -                |        | D01 Modified |
| 215                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSV-2131A  | Pressure Safety Valve                                    | GAS-111-0042A-CN05-2"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 216                                                                                                    | 2nd Stage Gas Compression Suction Drums | LIT-2132A  | Level Indicating Transmitter                             | V-2102-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | V-2102-A                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 217                                                                                                    | 2nd Stage Gas Compression Suction Drums | TG-2131A   | Temperature Gauge (Bimetal)                              | V-2102-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | V-2102-A                 | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | 0-160 °C                                                                                                                                                                          | -                 | °C              | -                        | -                    | -                | Note 2 | D01 Modified |
| 218                                                                                                    | 2nd Stage Gas Compression Suction Drums | PG-2131A   | Pressure Gauge (Bourdon)                                 | V-2102-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | 0-40 barg                                                                                                                                                                         | -                 | Barg            | -                        | -                    | -                |        | D01 Modified |
| 219                                                                                                    | 2nd Stage Gas Compression Suction Drums | PDIT-2131A | Differential Pressure Indicating Transmitter (Diaphragm) | V-2102-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | V-2102-A                 | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | 0-1 bara          | Bara            | DCS                      | AI-IS-NR             | 4-20 mA          | -      | D01 Modified |
| 220                                                                                                    | 2nd Stage Gas Compression Suction Drums | LG-2131A   | Level Gauge (Reflex)                                     | V-2102-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | V-2102-A                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 221                                                                                                    | 2nd Stage Gas Compression Suction Drums | LIT-2131A  | Level Indicating Transmitter                             | V-2102-A                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | V-2102-A                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 222                                                                                                    | 2nd Stage Gas Compression Suction Drums | XZSC-2131A | Limit Switch Close (Included in ON-OFF Valve)            | CDH-111-0023A-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 223                                                                                                    | 2nd Stage Gas Compression Suction Drums | XZSO-2131A | Limit Switch Open (Included in ON-OFF Valve)             | CDH-111-0023A-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 224                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSOV-2131A | Process Solenoid Valve                                   | CDH-111-0023A-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | DCS-FIELD                | DO-NIS-NR            | 24VDC LOOP POWER | -      | D01 Modified |
| 225                                                                                                    | 2nd Stage Gas Compression Suction Drums | ESOV-2131A | ESD Solenoid Valve                                       | CDH-111-0023A-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R             | 24VDC LOOP POWER | -      | D01 Modified |
| 226                                                                                                    | 2nd Stage Gas Compression Suction Drums | XV-2131A   | ON/OFF VAVLE (Ball Valve)                                | CDH-111-0023A-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 227                                                                                                    | 2nd Stage Gas Compression Suction Drums | RO-2131A   | Restriction Orifice                                      | CDH-111-0023A-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 228                                                                                                    | 2nd Stage Gas Compression Suction Drums | RO-2134A   | Restriction Orifice                                      | GAS-111-0160A-CN05-2"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 229                                                                                                    | 2nd Stage Gas Compression Suction Drums | BZSC-2134A | Limit Switch Close (Included in blowdown Valve)          | FL-112-0119A-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 230                                                                                                    | 2nd Stage Gas Compression Suction Drums | BZSO-2134A | Limit Switch Open (Included in blowdown Valve)           | FL-112-0119A-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 231                                                                                                    | 2nd Stage Gas Compression Suction Drums | BSOV-2134A | BDV Solenoid Valve                                       | FL-112-0119A-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R             | 24VDC LOOP POWER | -      | D01 Modified |
| 232                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSOV-2134A | Process Solenoid Valve                                   | FL-112-0119A-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | DCS-FIELD                | DO-NIS-NR            | 24VDC LOOP POWER | -      | D01 Modified |
| 233                                                                                                    | 2nd Stage Gas Compression Suction Drums | BDV-2134A  | Blowdown valve                                           | FL-112-0119A-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (1 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 234                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSV-2131B  | Pressure Safety Valve                                    | GAS-111-0042B-CN05-2"-PT                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 235                                                                                                    | 2nd Stage Gas Compression Suction Drums | LIT-2132B  | Level Indicating Transmitter                             | V-2102-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | V-2102-B                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 236                                                                                                    | 2nd Stage Gas Compression Suction Drums | TG-2131B   | Temperature Gauge (Bimetal)                              | V-2102-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | V-2102-B                 | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | 0-160 °C                                                                                                                                                                          | -                 | °C              | -                        | -                    | -                | Note 2 | D01 Modified |
| 237                                                                                                    | 2nd Stage Gas Compression Suction Drums | PG-2131B   | Pressure Gauge (Bourdon)                                 | V-2102-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | 0-40 barg                                                                                                                                                                         | -                 | Barg            | -                        | -                    | -                |        | D01 Modified |
| 238                                                                                                    | 2nd Stage Gas Compression Suction Drums | PDIT-2131B | Differential Pressure Indicating Transmitter (Diaphragm) | V-2102-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | V-2102-B                 | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | 0-1 bara          | Bara            | FIELD-DCS                | AI-IS-NR             | 4-20 mA          | -      | D01 Modified |
| 239                                                                                                    | 2nd Stage Gas Compression Suction Drums | LG-2131B   | Level Gauge (Reflex)                                     | V-2102-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | V-2102-B                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 240                                                                                                    | 2nd Stage Gas Compression Suction Drums | LIT-2131B  | Level Indicating Transmitter                             | V-2102-B                                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | V-2102-B                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.3         | 115.5       | 60         | VTA                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 241                                                                                                    | 2nd Stage Gas Compression Suction Drums | XZSC-2131B | Limit Switch Close (Included in ON-OFF Valve)            | CDH-111-0023B-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 242                                                                                                    | 2nd Stage Gas Compression Suction Drums | XZSO-2131B | Limit Switch Open (Included in ON-OFF Valve)             | CDH-111-0023B-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 243                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSOV-2131B | Process Solenoid Valve                                   | CDH-111-0023B-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | DCS-FIELD                | DO-NIS-NR            | 24VDC LOOP POWER | -      | D01 Modified |
| 244                                                                                                    | 2nd Stage Gas Compression Suction Drums | ESOV-2131B | ESD Solenoid Valve                                       | CDH-111-0023B-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R             | 24VDC LOOP POWER | -      | D01 Modified |
| 245                                                                                                    | 2nd Stage Gas Compression Suction Drums | XV-2131B   | ON/OFF VAVLE (Ball Valve)                                | CDH-111-0023B-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |
| 246                                                                                                    | 2nd Stage Gas Compression Suction Drums | RO-2131B   | Restriction Orifice                                      | CDH-111-0023B-CS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | LIQUID  | LOCAL                    | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22        | 18.1         | 115.5       | 59.88      | -                                                                                                                                                                                 | -                 | -               | -                        | -                    | -                | -      | D01 Modified |



|                                                                                                        |                                         |            |                                                          |                                                                                                                           |                                      |         |                        |                             |                             |                             |                             |                                                                                                                                                                                   |              |             |            |                  |                   |                 |                          |           |                  |        |              |
|--------------------------------------------------------------------------------------------------------|-----------------------------------------|------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------|------------------|-------------------|-----------------|--------------------------|-----------|------------------|--------|--------------|
| <div><br/>NISOC</div> |                                         |            |                                                          | <div>تنگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |         |                        |                             |                             |                             |                             | <div></div> |              |             |            |                  |                   |                 |                          |           |                  |        |              |
|                                                                                                        |                                         |            |                                                          |                                                                                                                           |                                      |         |                        |                             |                             |                             |                             |                                                                                                                                                                                   |              |             |            |                  |                   |                 |                          |           |                  |        |              |
| شماره پیمان: ۰۵۳ – ۰۷۲ – ۹۱۸۴                                                                          |                                         |            |                                                          | BK                                                                                                                        | GCS                                  | PEDCO   | 120                    | IN                          | LI                          | 0001                        | D00                         | شماره صفحه: ۱۱ از ۱۹                                                                                                                                                              |              |             |            |                  |                   |                 |                          |           |                  |        |              |
| IDENTIFICATION                                                                                         |                                         |            |                                                          | REFERENCE                                                                                                                 |                                      |         |                        |                             |                             |                             |                             | PRESSURE                                                                                                                                                                          |              | TEMPERATURE |            | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE      | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART                            | TAG NAME   | DESCRIPTION                                              | LINE/ EQUIPMENT                                                                                                           | P&ID NO.                             | SERVICE | LOCATION/ PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCATION LAYOUT DWG NO.     | DESIGN (BARG)                                                                                                                                                                     | OPER. (BARG) | DESIGN (°C) | OPER. (°C) |                  |                   |                 |                          |           |                  |        |              |
| 247                                                                                                    | 2nd Stage Gas Compression Suction Drums | RO-2134B   | Restriction Orifice                                      | GAS-111-0160B-CN05-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 248                                                                                                    | 2nd Stage Gas Compression Suction Drums | BZSC-2131B | Limit Switch Close (Included in blowdown Valve)          | FL-112-0119B-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 249                                                                                                    | 2nd Stage Gas Compression Suction Drums | BZSO-2131B | Limit Switch Open (Included in blowdown Valve)           | FL-112-0119B-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 250                                                                                                    | 2nd Stage Gas Compression Suction Drums | BSOV-2131B | BDV Solenoid Valve                                       | FL-112-0119B-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 251                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSOV-2131B | Process Solenoid Valve                                   | FL-112-0119B-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 252                                                                                                    | 2nd Stage Gas Compression Suction Drums | BDV-2131B  | Blowdown valve                                           | FL-112-0119B-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (2 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 253                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSV-2131C  | Pressure Safety Valve                                    | GAS-111-0042C-CN05-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 254                                                                                                    | 2nd Stage Gas Compression Suction Drums | LIT-2132C  | Level Indicating Transmitter                             | V-2102-C                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | V-2102-C               | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | VTA              | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          | -      | D01 Modified |
| 255                                                                                                    | 2nd Stage Gas Compression Suction Drums | TG-2131C   | Temperature Gauge (Bimetal)                              | V-2102-C                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | V-2102-C               | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | 0-160 °C         | -                 | °C              | -                        | -         | -                | Note 2 | D01 Modified |
| 256                                                                                                    | 2nd Stage Gas Compression Suction Drums | PG-2131C   | Pressure Gauge (Bourdon)                                 | V-2102-C                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | 0-40 barg        | -                 | Barg            | -                        | -         | -                |        | D01 Modified |
| 257                                                                                                    | 2nd Stage Gas Compression Suction Drums | PDIT-2131C | Differential Pressure Indicating Transmitter (Diaphragm) | V-2102-C                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | V-2102-C               | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | VTA              | 0-1 bara          | Bara            | FIELD-DCS                | AI-IS-NR  | 4-20 mA          | -      | D01 Modified |
| 258                                                                                                    | 2nd Stage Gas Compression Suction Drums | LG-2131C   | Level Gauge (Reflex)                                     | V-2102-C                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | V-2102-C               | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | VTA              | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 259                                                                                                    | 2nd Stage Gas Compression Suction Drums | LIT-2131C  | Level Indicating Transmitter                             | V-2102-C                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | V-2102-C               | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | VTA              | -                 | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA          | -      | D01 Modified |
| 260                                                                                                    | 2nd Stage Gas Compression Suction Drums | XZSC-2131C | Limit Switch Close (Included in ON-OFF Valve)            | CDH-111-0023C-CS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 261                                                                                                    | 2nd Stage Gas Compression Suction Drums | XZSO-2131C | Limit Switch Open (Included in ON-OFF Valve)             | CDH-111-0023C-CS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 262                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSOV-2131C | Process Solenoid Valve                                   | CDH-111-0023C-CS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 263                                                                                                    | 2nd Stage Gas Compression Suction Drums | ESOV-2131C | ESD Solenoid Valve                                       | CDH-111-0023C-CS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 264                                                                                                    | 2nd Stage Gas Compression Suction Drums | XV-2131C   | ON/OFF VAVLE (Ball Valve)                                | CDH-111-0023C-CS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 265                                                                                                    | 2nd Stage Gas Compression Suction Drums | RO-2131C   | Restriction Orifice                                      | CDH-111-0023C-CS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 266                                                                                                    | 2nd Stage Gas Compression Suction Drums | RO-2134C   | Restriction Orifice                                      | GAS-111-0160C-CN05-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 267                                                                                                    | 2nd Stage Gas Compression Suction Drums | BZSC-2131C | Limit Switch Close (Included in blowdown Valve)          | FL-112-0119C-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 268                                                                                                    | 2nd Stage Gas Compression Suction Drums | BZSO-2131C | Limit Switch Open (Included in blowdown Valve)           | FL-112-0119C-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 269                                                                                                    | 2nd Stage Gas Compression Suction Drums | BSOV-2131C | BDV Solenoid Valve                                       | FL-112-0119C-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 270                                                                                                    | 2nd Stage Gas Compression Suction Drums | PSOV-2131C | Process Solenoid Valve                                   | FL-112-0119C-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 271                                                                                                    | 2nd Stage Gas Compression Suction Drums | BDV-2131C  | Blowdown valve                                           | FL-112-0119C-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0009 (3 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.3         | 115.5       | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 272                                                                                                    | 2nd Stage Gas Compression Compressors   | TG-2132A   | Temperature Gauge (Bimetal)                              | GAS-111-0044A-CN05-6"-ET                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | 0-160 °C         | -                 | °C              | -                        | -         | -                | Note 2 | D01 Modified |
| 273                                                                                                    | 2nd Stage Gas Compression Compressors   | TIT-2131A  | Temperature Indicating Transmitter (RTD)                 | GAS-111-0044A-CN05-6"-ET                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0010 (1 of 3) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                            | 18.1         | 115.5       | 59.88      | 0-160 °C         | -                 | °C              | FIELD-DCS</              |           |                  |        |              |



|                                                                                                        |                                       |            |                                                 |                                                                                                                            |                                      |         |                         |                             |                             |                             |                             |                                                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |             |        |              |
|--------------------------------------------------------------------------------------------------------|---------------------------------------|------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|-------------|------------------|-------------------|-----------------|--------------------------|----------|-------------|--------|--------------|
| <div><br/>NISOC</div> |                                       |            |                                                 | <div>تنگه‌داشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |         |                         |                             |                             |                             |                             | <div></div> <div>شماره صفحه: ۱۲ از ۱۹</div> |              |             |             |                  |                   |                 |                          |          |             |        |              |
|                                                                                                        |                                       |            |                                                 |                                                                                                                            |                                      |         |                         |                             |                             |                             |                             |                                                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |             |        |              |
|                                                                                                        |                                       |            |                                                 | شماره پیمان:                                                                                                               |                                      |         |                         | پروژه                       | پس‌کار                      | صادر کننده                  | نصبیات                      | رشته                                                                                                                                                                                                              | نوع مدرک     | سریال       | نسخه        |                  |                   |                 |                          |          |             |        |              |
| ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                                       |                                       |            |                                                 | BK                                                                                                                         | GCS                                  | PEDCO   | 120                     | IN                          | LI                          | 0001                        | D00                         |                                                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |             |        |              |
| IDENTIFICATION                                                                                         |                                       |            |                                                 | REFERENCE                                                                                                                  |                                      |         |                         |                             |                             |                             |                             | PRESSURE                                                                                                                                                                                                          |              | TEMPERATURE |             | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE | SIGNAL TYPE | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART                          | TAG NAME   | DESCRIPTION                                     | LINE/ EQUIPMENT                                                                                                            | P&ID NO.                             | SERVICE | LOCATION / PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCAION LAYOUT DWG NO.      | DESIGN (BARG)                                                                                                                                                                                                     | OPER. (BARG) | DESIGN (°C) | OPER. (°C)  |                  |                   |                 |                          |          |             |        |              |
| 283                                                                                                    | 2nd Stage Gas Compression Compressors | TIT-2131B  | Temperature Indicating Transmitter (RTD)        | GAS-111-0044B-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | 0-160 °C         | -                 | °C              | FIELD-DCS                | AI-IS-NR | 4-20 mA     | Note 2 | D01 Modified |
| 284                                                                                                    | 2nd Stage Gas Compression Compressors | PIT-2131B  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0044B-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | VTA              | 0-37 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 285                                                                                                    | 2nd Stage Gas Compression Compressors | PG-2132B   | Pressure Gauge (Bourdon)                        | GAS-111-0044B-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | 0-40 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 286                                                                                                    | 2nd Stage Gas Compression Compressors | PSV-2132B  | Pressure Safety Valve                           | GAS-111-0047B-FN05-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 287                                                                                                    | 2nd Stage Gas Compression Compressors | PSV-2133B  | Pressure Safety Valve                           | GAS-111-0048B-FN05-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 288                                                                                                    | 2nd Stage Gas Compression Compressors | PIT-2134B  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0051B-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | VTA              | 0-109 barg        | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 289                                                                                                    | 2nd Stage Gas Compression Compressors | TIT-2134B  | Temperature Indicating Transmitter (RTD)        | GAS-111-0051B-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | 0-400 °C         | -                 | °C              | FIELD-ESD                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 290                                                                                                    | 2nd Stage Gas Compression Compressors | TG-2133B   | Temperature Gauge (Bimetal)                     | GAS-111-0051B-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | 0-400 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 291                                                                                                    | 2nd Stage Gas Compression Compressors | PG-2133B   | Pressure Gauge (Bourdon)                        | GAS-111-0051B-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (2 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | 0-100 barg       | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 292                                                                                                    | 2nd Stage Gas Compression Compressors | TG-2132C   | Temperature Gauge (Bimetal)                     | GAS-111-0044C-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | 0-160 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 293                                                                                                    | 2nd Stage Gas Compression Compressors | TIT-2131C  | Temperature Indicating Transmitter (RTD)        | GAS-111-0044C-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | 0-160 °C         | -                 | °C              | FIELD-DCS                | AI-IS-NR | 4-20 mA     | Note 2 | D01 Modified |
| 294                                                                                                    | 2nd Stage Gas Compression Compressors | PIT-2131C  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0044C-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | VTA              | 0-37 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 295                                                                                                    | 2nd Stage Gas Compression Compressors | PG-2132C   | Pressure Gauge (Bourdon)                        | GAS-111-0044C-CN05-6"-ET                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/22                                                                                                                                                                                                            | 18.1         | 115.5       | 59.88       | 0-40 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 296                                                                                                    | 2nd Stage Gas Compression Compressors | PSV-2132C  | Pressure Safety Valve                           | GAS-111-0047C-FN05-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 297                                                                                                    | 2nd Stage Gas Compression Compressors | PSV-2133C  | Pressure Safety Valve                           | GAS-111-0048C-FN05-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 298                                                                                                    | 2nd Stage Gas Compression Compressors | PIT-2134C  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0051C-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | VTA              | 0-109 barg        | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 299                                                                                                    | 2nd Stage Gas Compression Compressors | TIT-2134C  | Temperature Indicating Transmitter (RTD)        | GAS-111-0051C-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | 0-400 °C         | -                 | °C              | FIELD-ESD                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 300                                                                                                    | 2nd Stage Gas Compression Compressors | TG-2133C   | Temperature Gauge (Bimetal)                     | GAS-111-0051C-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | 0-400 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 301                                                                                                    | 2nd Stage Gas Compression Compressors | PG-2133C   | Pressure Gauge (Bourdon)                        | GAS-111-0051C-FN05-6"-IS                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0010 (3 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.8         | 175         | 149.5/142.3 | 0-100 barg       | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 302                                                                                                    | 2nd Stage Gas Compression Air Coolers | TIT-2135A  | Temperature Indicating Transmitter (RTD)        | GAS-111-0058A-FS00-6"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | 0-160 °C         | -                 | °C              | FIELD-DCS                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 303                                                                                                    | 2nd Stage Gas Compression Air Coolers | TIT-2136A  | Temperature Indicating Transmitter (RTD)        | GAS-111-0058A-FS00-6"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | 0-160 °C         | -                 | °C              | FIELD-ESD                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 304                                                                                                    | 2nd Stage Gas Compression Air Coolers | TG-2134A   | Temperature Gauge (Bimetal)                     | GAS-111-0058A-FS00-6"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | 0-160 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 305                                                                                                    | 2nd Stage Gas Compression Air Coolers | PG-2134A   | Pressure Gauge (Bourdon)                        | GAS-111-0058A-FS00-6"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | 0-100 barg       | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 306                                                                                                    | 2nd Stage Gas Compression Air Coolers | FG-2132A   | Rotameter                                       | CHM-112-0005A-FS00-3/4"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | LIQUID  | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | ATM          | 55          | AMB         | -                | -                 | -               | -                        | -        | -           | -      | D01 Modified |
| 307                                                                                                    | 2nd Stage Gas Compression Air Coolers | PIT-2135A  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0057A-FS00-4"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | VTA              | 0-109 barg        | Barg            | FIELD-DCS                | AI-IS-R  | 4-20 mA     | -      | D01 Modified |
| 308                                                                                                    | 2nd Stage Gas Compression Air Coolers | PCV-2135   | Pressure Control Valve (Globe Valve)            | GAS-111-0057A-FS00-4"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | DCS                     | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | -                | -                 | -               | DCS-FIELD                | AO-IS-R  | 4-20 mA     | -      | D01 Modified |
| 309                                                                                                    | 2nd Stage Gas Compression Air Coolers | RO-2133A   | Restriction Orifice                             | FL-112-0023A-AN07-2"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS     | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                | 54.1         | 175         | 60          | -                | -                 | -               | -                        | -        | -           | -      | D01 Modified |
| 310                                                                                                    | 2nd Stage Gas Compression Air Coolers | BZSC-2132A | Limit Switch Close (Included in blowdown Valve) | GAS-111-0054A-FS00-2"-NP                                                                                                   |                                      |         |                         |                             |                             |                             |                             |                                                                                                                                                                                                                   |              |             |             |                  |                   |                 |                          |          |             |        |              |



|                                                                                                        |                                       |            |                                                 |                                                                                                                          |                                      |           |                        |                             |                             |                             |                             |                                                                                                                                                                                                                                                                      |                      |             |            |                  |                   |                 |                          |           |                  |        |              |
|--------------------------------------------------------------------------------------------------------|---------------------------------------|------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------|------------|------------------|-------------------|-----------------|--------------------------|-----------|------------------|--------|--------------|
| <div><br/>NISOC</div> |                                       |            |                                                 | <div>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |           |                        |                             |                             |                             |                             | <div></div> |                      |             |            |                  |                   |                 |                          |           |                  |        |              |
|                                                                                                        |                                       |            |                                                 |                                                                                                                          |                                      |           |                        |                             |                             |                             |                             |                                                                                                                                                                                                                                                                      |                      |             |            |                  |                   |                 |                          |           |                  |        |              |
|                                                                                                        |                                       |            |                                                 | INSTRUMENT INDEX                                                                                                         |                                      |           |                        |                             |                             |                             |                             |                                                                                                                                                                                                                                                                      |                      |             |            |                  |                   |                 |                          |           |                  |        |              |
| شماره پیمان:                                                                                           |                                       |            |                                                 | پروژه                                                                                                                    | بسته کاری                            | صادرکننده | تسهیلات                | رشته                        | نوع مدرک                    | سریال                       | نسخه                        |                                                                                                                                                                                                                                                                      | شماره صفحه: ۱۳ از ۱۹ |             |            |                  |                   |                 |                          |           |                  |        |              |
| ۹۱۸۴ - ۰۳ - ۰۳                                                                                         |                                       |            |                                                 | BK                                                                                                                       | GCS                                  | PEDCO     | 120                    | IN                          | LI                          | 0001                        | D00                         |                                                                                                                                                                                                                                                                      |                      |             |            |                  |                   |                 |                          |           |                  |        |              |
| IDENTIFICATION                                                                                         |                                       |            |                                                 | REFERENCE                                                                                                                |                                      |           |                        |                             |                             |                             |                             | PRESSURE                                                                                                                                                                                                                                                             |                      | TEMPERATURE |            | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE      | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART                          | TAG NAME   | DESCRIPTION                                     | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE   | LOCATION/ PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCATION LAYOUT DWG NO.     | DESIGN (BARG)                                                                                                                                                                                                                                                        | OPER. (BARG)         | DESIGN (°C) | OPER. (°C) |                  |                   |                 |                          |           |                  |        |              |
| 319                                                                                                    | 2nd Stage Gas Compression Air Coolers | XV-2133A   | ON/OFF VAVLE (Ball Valve)                       | GAS-111-0058A-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (1 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 320                                                                                                    | 2nd Stage Gas Compression Air Coolers | TIT-2135B  | Temperature Indicating Transmitter (RTD)        | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-160 °C         | -                 | °C              | FIELD-DCS                | AH-S-R    | 4-20 mA          | Note 2 | D01 Modified |
| 321                                                                                                    | 2nd Stage Gas Compression Air Coolers | TIT-2136B  | Temperature Indicating Transmitter (RTD)        | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-160 °C         | -                 | °C              | FIELD-ESD                | AH-S-R    | 4-20 mA          | Note 2 | D01 Modified |
| 322                                                                                                    | 2nd Stage Gas Compression Air Coolers | TG-2134B   | Temperature Gauge (Bimetal)                     | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-160 °C         | -                 | °C              | -                        | -         | -                | Note 2 | D01 Modified |
| 323                                                                                                    | 2nd Stage Gas Compression Air Coolers | PG-2134B   | Pressure Gauge (Bourdon)                        | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-100 barg       | -                 | Barg            | -                        | -         | -                | -      | D01 Modified |
| 324                                                                                                    | 2nd Stage Gas Compression Air Coolers | FG-2132B   | Rotameter                                       | CHM-112-0005B-FS00-3/4"-NP                                                                                               | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | ATM                  | 55          | AMB        | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 325                                                                                                    | 2nd Stage Gas Compression Air Coolers | PIT-2135B  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0057B-FS00-4"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | VTA              | 0-109 barg        | Barg            | FIELD-DCS                | AH-S-R    | 4-20 mA          | -      | D01 Modified |
| 326                                                                                                    | 2nd Stage Gas Compression Air Coolers | PCV-2134B  | Pressure Control Valve (Globe Valve)            | GAS-111-0057B-FS00-4"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | DCS                    | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          | -      | D01 Modified |
| 327                                                                                                    | 2nd Stage Gas Compression Air Coolers | RO-2133B   | Restriction Orifice                             | FL-112-0023B-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 328                                                                                                    | 2nd Stage Gas Compression Air Coolers | BZSC-2132B | Limit Switch Close (Included in blowdown Valve) | GAS-111-0054B-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 329                                                                                                    | 2nd Stage Gas Compression Air Coolers | BZSO-2132B | Limit Switch Open (Included in blowdown Valve)  | GAS-111-0054B-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 330                                                                                                    | 2nd Stage Gas Compression Air Coolers | PSOV-2132B | Process Solenoid Valve                          | GAS-111-0054B-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 331                                                                                                    | 2nd Stage Gas Compression Air Coolers | BSOV-2132B | BDV Solenoid Valve                              | GAS-111-0054B-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 332                                                                                                    | 2nd Stage Gas Compression Air Coolers | BDV-2132B  | Blowdown valve                                  | GAS-111-0054A-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 333                                                                                                    | 2nd Stage Gas Compression Air Coolers | XZSC-2133B | Limit Switch Close (Included in ON-OFF Valve)   | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 334                                                                                                    | 2nd Stage Gas Compression Air Coolers | XZSO-2133B | Limit Switch Open (Included in ON-OFF Valve)    | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 335                                                                                                    | 2nd Stage Gas Compression Air Coolers | PSOV-2133B | Process Solenoid Valve                          | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 336                                                                                                    | 2nd Stage Gas Compression Air Coolers | ESOV-2133B | ESD Solenoid Valve                              | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 337                                                                                                    | 2nd Stage Gas Compression Air Coolers | XV-2133B   | ON/OFF VAVLE (Ball Valve)                       | GAS-111-0058B-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (2 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 338                                                                                                    | 2nd Stage Gas Compression Air Coolers | TIT-2135C  | Temperature Indicating Transmitter (RTD)        | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-160 °C         | -                 | °C              | FIELD-DCS                | AH-S-R    | 4-20 mA          | Note 2 | D01 Modified |
| 339                                                                                                    | 2nd Stage Gas Compression Air Coolers | TIT-2136C  | Temperature Indicating Transmitter (RTD)        | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-160 °C         | -                 | °C              | FIELD-ESD                | AH-S-R    | 4-20 mA          | Note 2 | D01 Modified |
| 340                                                                                                    | 2nd Stage Gas Compression Air Coolers | TG-2134C   | Temperature Gauge (Bimetal)                     | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-160 °C         | -                 | °C              | -                        | -         | -                | Note 2 | D01 Modified |
| 341                                                                                                    | 2nd Stage Gas Compression Air Coolers | PG-2134C   | Pressure Gauge (Bourdon)                        | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | 0-100 barg       | -                 | Barg            | -                        | -         | -                | -      | D01 Modified |
| 342                                                                                                    | 2nd Stage Gas Compression Air Coolers | FG-2132C   | Rotameter                                       | CHM-112-0005C-FS00-3/4"-NP                                                                                               | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | LIQUID    | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | ATM                  | 55          | AMB        | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 343                                                                                                    | 2nd Stage Gas Compression Air Coolers | PIT-2135C  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0057C-FS00-4"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | VTA              | 0-109 barg        | Barg            | FIELD-DCS                | AH-S-R    | 4-20 mA          | -      | D01 Modified |
| 344                                                                                                    | 2nd Stage Gas Compression Air Coolers | PCV-2134C  | Pressure Control Valve (Globe Valve)            | GAS-111-0057C-FS00-4"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | DCS                    | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          | -      | D01 Modified |
| 345                                                                                                    | 2nd Stage Gas Compression Air Coolers | RO-2133C   | Restriction Orifice                             | FL-112-0023C-AN07-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 346                                                                                                    | 2nd Stage Gas Compression Air Coolers | BZSC-2132C | Limit Switch Close (Included in blowdown Valve) | GAS-111-0054C-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 347                                                                                                    | 2nd Stage Gas Compression Air Coolers | BZSO-2132C | Limit Switch Open (Included in blowdown Valve)  | GAS-111-0054C-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 348                                                                                                    | 2nd Stage Gas Compression Air Coolers | PSOV-2132C | Process Solenoid Valve                          | GAS-111-0054C-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 349                                                                                                    | 2nd Stage Gas Compression Air Coolers | BSOV-2132C | BDV Solenoid Valve                              | GAS-111-0054C-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 350                                                                                                    | 2nd Stage Gas Compression Air Coolers | BDV-2132C  | Blowdown valve                                  | GAS-111-0054C-FS00-2"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 351                                                                                                    | 2nd Stage Gas Compression Air Coolers | XZSC-2133C | Limit Switch Close (Included in ON-OFF Valve)   | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 352                                                                                                    | 2nd Stage Gas Compression Air Coolers | XZSO-2133C | Limit Switch Open (Included in ON-OFF Valve)    | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 353                                                                                                    | 2nd Stage Gas Compression Air Coolers | PSOV-2133C | Process Solenoid Valve                          | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 354                                                                                                    | 2nd Stage Gas Compression Air Coolers | ESOV-2133C | ESD Solenoid Valve                              | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 355                                                                                                    | 2nd Stage Gas Compression Air Coolers | XV-2133C   | ON/OFF VAVLE (Ball Valve)                       | GAS-111-0058C-FS00-6"-NP                                                                                                 | BK-GCS-PEDCO-120-PR-PI-0011 (3 of 3) | GAS       | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                                                                                                   | 54.1                 | 175         | 60         | -                | -                 | -               | -                        | -         | -                | -      | D01 Modified |



|                                                                                                               |                                          |           |                                                          |                                                                                                                                 |                             |            |                        |                             |                             |                             |                             |                      |              |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |              |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------|--------------|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|--------------------------|-----------|------------------|--------|--------------|
| <div></div> <div>NISOC</div> |                                          |           |                                                          | <div>تنگداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                             |            |                        |                             |                             |                             |                             |                      |              |             |            | <div></div> |                   |                 |                          |           |                  |        |              |
|                                                                                                               |                                          |           |                                                          |                                                                                                                                 |                             |            |                        |                             |                             |                             |                             |                      |              |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |              |
| شماره پیمان:                                                                                                  |                                          |           |                                                          | پروژه                                                                                                                           | بسته کاری                   | صادر کننده | کمپلمات                | رشته                        | نوع مدرک                    | سریال                       | نسخه                        | شماره صفحه: ۱۴ از ۱۹ |              |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |              |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                              |                                          |           |                                                          | BK                                                                                                                              | GCS                         | PEDCO      | 120                    | IN                          | LI                          | 0001                        | D00                         |                      |              |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |              |
| IDENTIFICATION                                                                                                |                                          |           |                                                          | REFERENCE                                                                                                                       |                             |            |                        |                             |                             |                             |                             | PRESSURE             |              | TEMPERATURE |            | INSTRUMENT RANGE                                                                                                                                                                  | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE      | NOTE   | REV.         |
| ITEM                                                                                                          | PROJECT PART                             | TAG NAME  | DESCRIPTION                                              | LINE/ EQUIPMENT                                                                                                                 | P&ID NO.                    | SERVICE    | LOCATION/ PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCATION LAYOUT DWG NO.     | DESIGN (BARG)        | OPER. (BARG) | DESIGN (°C) | OPER. (°C) |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |              |
| 356                                                                                                           | 2nd Stage Gas Compression Discharge Drum | FG-2142   | Rotameter                                                | CHM-112-0006-FS00-3/4"-NP                                                                                                       | BK-GCS-PEDCO-120-PR-PI-0012 | LIQUID     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | ATM          | 55          | AMB        | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 357                                                                                                           | 2nd Stage Gas Compression Discharge Drum | FG-2141   | Rotameter                                                | CHM-112-0010-FS00-3/4"-NP                                                                                                       | BK-GCS-PEDCO-120-PR-PI-0012 | LIQUID     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | ATM          | 55          | AMB        | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 358                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PSV-2141  | Pressure Safety Valve                                    | GAS-111-0060-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 359                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PSV-2142  | Pressure Safety Valve                                    | GAS-111-0062-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 360                                                                                                           | 2nd Stage Gas Compression Discharge Drum | BZSC-2141 | Limit Switch Close (Included in blowdown Valve)          | GAS-111-0065-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 361                                                                                                           | 2nd Stage Gas Compression Discharge Drum | BZSO-2141 | Limit Switch Open (Included in blowdown Valve)           | GAS-111-0065-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 362                                                                                                           | 2nd Stage Gas Compression Discharge Drum | BSOV-2141 | BDV Solenoid Valve                                       | GAS-111-0065-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 363                                                                                                           | 2nd Stage Gas Compression Discharge Drum | BDV-2141  | Blowdown valve                                           | GAS-111-0065-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 364                                                                                                           | 2nd Stage Gas Compression Discharge Drum | RO-2141   | Restriction Orifice                                      | GAS-111-0065-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 365                                                                                                           | 2nd Stage Gas Compression Discharge Drum | CP-2141   | Corrosion Probe (LPR probes)                             | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | mm              | -                        | -         | -                | -      | D01 Modified |
| 366                                                                                                           | 2nd Stage Gas Compression Discharge Drum | CC-2141   | Corrosion Coupon (Strip Ladder)                          | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | mm              | -                        | -         | -                | -      | D01 Modified |
| 367                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PG-2142   | Pressure Gauge (Bourdon)                                 | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | 0-100 barg                                                                                                                                                                        | -                 | Barg            | -                        | -         | -                | -      | D01 Modified |
| 368                                                                                                           | 2nd Stage Gas Compression Discharge Drum | TG-2142   | Temperature Gauge (Bimetal)                              | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | 0-160 °C                                                                                                                                                                          | -                 | °C              | -                        | -         | -                | Note 2 | D01 Modified |
| 369                                                                                                           | 2nd Stage Gas Compression Discharge Drum | XZSC-2142 | Limit Switch Close (Included in ON-OFF Valve)            | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 370                                                                                                           | 2nd Stage Gas Compression Discharge Drum | XZSO-2142 | Limit Switch Open (Included in ON-OFF Valve)             | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 371                                                                                                           | 2nd Stage Gas Compression Discharge Drum | ESOV-2142 | ESD Solenoid Valve                                       | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 372                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PSOV-2142 | Process Solenoid Valve                                   | GAS-111-0066-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 373                                                                                                           | 2nd Stage Gas Compression Discharge Drum | XV-2142   | ON/OFF VAVLE (Ball Valve)                                | GAS-111-0065-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 374                                                                                                           | 2nd Stage Gas Compression Discharge Drum | XZSC-2143 | Limit Switch Close (Included in ON-OFF Valve)            | GAS-111-0366-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 375                                                                                                           | 2nd Stage Gas Compression Discharge Drum | XZSO-2143 | Limit Switch Open (Included in ON-OFF Valve)             | GAS-111-0366-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           | -      | D01 Modified |
| 376                                                                                                           | 2nd Stage Gas Compression Discharge Drum | ESOV-2143 | ESD Solenoid Valve                                       | GAS-111-0366-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01 Modified |
| 377                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PSOV-2143 | Process Solenoid Valve                                   | GAS-111-0366-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | DCS-FIELD                | DO-NIS-NR | 24VDC LOOP POWER | -      | D01 Modified |
| 378                                                                                                           | 2nd Stage Gas Compression Discharge Drum | ESDV-2143 | Emergency Shut Down Valve (Ball Valve)                   | GAS-111-0366-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 379                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PDIT-2143 | Differential Pressure Indicating Transmitter (Diaphragm) | GAS-111-0366-FN05-6"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | VTA                                                                                                                                                                               | 0-1 bara          | Bara            | FIELD-DCS                | AI-IS-R   | 4-20 mA          | -      | D01 Modified |
| 380                                                                                                           | 2nd Stage Gas Compression Discharge Drum | LIT-2142  | Level Indicating Transmitter                             | V-2103                                                                                                                          | BK-GCS-PEDCO-120-PR-PI-0012 | LIQUID     | V-2103                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          | -      | D01 Modified |
| 381                                                                                                           | 2nd Stage Gas Compression Discharge Drum | TG-2141   | Temperature Gauge (Bimetal)                              | V-2103                                                                                                                          | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | V-2103                 | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | 0-160 °C                                                                                                                                                                          | -                 | °C              | -                        | -         | -                | Note 2 | D01 Modified |
| 382                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PG-2141   | Pressure Gauge (Bourdon)                                 | V-2103                                                                                                                          | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | 0-100 barg                                                                                                                                                                        | -                 | Barg            | -                        | -         | -                | -      | D01 Modified |
| 383                                                                                                           | 2nd Stage Gas Compression Discharge Drum | PDIT-2141 | Differential Pressure Indicating Transmitter (Diaphragm) | V-2103                                                                                                                          | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | V-2103                 | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | VTA                                                                                                                                                                               | 0-1 bara          | Barg            | FIELD-DCS                | AI-IS-NR  | 4-20 mA          | -      | D01 Modified |
| 384                                                                                                           | 2nd Stage Gas Compression Discharge Drum | LG-2141   | Level Gauge (Reflex)                                     | V-2103                                                                                                                          | BK-GCS-PEDCO-120-PR-PI-0012 | LIQUID     | V-2103                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | VTA                                                                                                                                                                               | -                 | -               | -                        | -         | -                | -      | D01 Modified |
| 385                                                                                                           | 2nd Stage Gas Compression Discharge Drum | LIT-2141  | Level Indicating Transmitter                             | V-2103                                                                                                                          | BK-GCS-PEDCO-120-PR-PI-0012 | LIQUID     | V-2103                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | VTA                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA          | -      | D01 Modified |
| 386                                                                                                           | 2nd Stage Gas Compression Discharge Drum | TG-2143   | Temperature Gauge                                        | GAS-111-0066-FN05-2"-PT                                                                                                         | BK-GCS-PEDCO-120-PR-PI-0012 | GAS        | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                   | 53.9         | 130         | 59.89      | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | Note 2 | D01 Modified |
| 387                                                                                                           | 2nd Stage Gas Compression Discharge Drum | RO-2144   | Restriction Orifice                                      | CDH-112-0025-FS00-2"-NP                                                                                                         | BK-GCS-PEDCO-120-PR-PI-001  |            |                        |                             |                             |                             |                             |                      |              |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |              |



|                                                                                              |                                          |           |                                                 |                                                                                                                          |                                      |           |                              |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |             |                     |                      |                    |                             |                      |                  |        |              |
|----------------------------------------------------------------------------------------------|------------------------------------------|-----------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|-------------|---------------------|----------------------|--------------------|-----------------------------|----------------------|------------------|--------|--------------|
| <div></div> |                                          |           |                                                 | <div>تنگداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |           |                              |                             |                             |                             |                             | <div></div> |                 |             |             |                     |                      |                    |                             |                      |                  |        |              |
|                                                                                              |                                          |           |                                                 | INSTRUMENT INDEX                                                                                                         |                                      |           |                              |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |             |                     |                      |                    |                             |                      |                  |        |              |
| شماره پیمان:                                                                                 |                                          |           |                                                 | پروژه                                                                                                                    |                                      | بسته کاری |                              | صادرکننده                   |                             | نمیدلات                     |                             | رشته                                                                                                                                                                              |                 | نوع مدرک    |             | سریال               |                      | نسخه               |                             |                      |                  |        |              |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                             |                                          |           |                                                 | BK                                                                                                                       |                                      | GCS       |                              | PEDCO                       |                             | 120                         |                             | IN                                                                                                                                                                                |                 | LI          |             | 0001                |                      | D00                |                             | شماره صفحه: ۱۵ از ۱۹ |                  |        |              |
| IDENTIFICATION                                                                               |                                          |           |                                                 | REFERENCE                                                                                                                |                                      |           |                              |                             |                             |                             |                             | PRESSURE                                                                                                                                                                          |                 | TEMPERATURE |             | INSTRUMENT<br>RANGE | CALIBRATION<br>RANGE | INSTRUMENT<br>UNIT | CONTROL SYSTEM<br>(FROM/TO) | I/O TYPE             | SIGNAL TYPE      | NOTE   | REV.         |
| ITEM                                                                                         | PROJECT PART                             | TAG NAME  | DESCRIPTION                                     | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE   | LOCATION/<br>PACKAGE<br>NAME | DATA SHEET NO.              | HOO K UP DWG.<br>NO.        | LOOP DWG NO.                | LOCAION LAYOUT<br>DWG NO.   | DESIGN (BARG)                                                                                                                                                                     | OPER.<br>(BARG) | DESIGN (°C) | OPER. (°C)  |                     |                      |                    |                             |                      |                  |        |              |
| 391                                                                                          | 2nd Stage Gas Compression Discharge Drum | PSOV-2144 | Process Solenoid Valve                          | CDH-112-0025-FS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0012          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 53.9            | 130         | 59.89       | -                   | -                    | -                  | DCS-FIELD                   | DO-NIS-NR            | 24VDC LOOP POWER | -      | D01 Modified |
| 392                                                                                          | 2nd Stage Gas Compression Discharge Drum | XV-2144   | ON/OFF VAVLE (Ball Valve)                       | CDH-112-0025-FS00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0012          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 53.9            | 130         | 59.89       | -                   | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 393                                                                                          | Gas Compression Dehydration Package      | FG-2151   | Rotameter                                       | CHM-112-0011-FS00-3/4"-NP                                                                                                | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | ATM             | 55          | AMB         | -                   | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 394                                                                                          | Gas Compression Dehydration Package      | BZSC-2151 | Limit Switch Close (Included in blowdown Valve) | FL-112-0002-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | FIELD-DCS                   | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 395                                                                                          | Gas Compression Dehydration Package      | BZSO-2151 | Limit Switch Open (Included in blowdown Valve)  | FL-112-0002-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | FIELD-DCS                   | DI-NIS-NR            | 24 VDC           | -      | D01 Modified |
| 396                                                                                          | Gas Compression Dehydration Package      | BSOV-2151 | BDV Solenoid Valve                              | FL-112-0002-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | ESD-FIELD                   | DO-NIS-R             | 24VDC LOOP POWER | -      | D01 Modified |
| 397                                                                                          | Gas Compression Dehydration Package      | BDV-2151  | Blowdown valve                                  | FL-112-0002-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 398                                                                                          | Gas Compression Dehydration Package      | RO-2151   | Restriction Orifice                             | FL-112-0002-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 399                                                                                          | Gas Compression Dehydration Package      | PIT-2151  | Pressure Indicating Transmitter (Diaphragm)     | GAS-111-0072-FN05-6"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | VTA                 | 0-105 barg           | Barg               | FIELD-DCS                   | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 400                                                                                          | Gas Compression Dehydration Package      | PCV-2151  | Pressure Control Valve (Globe Valve)            | FL-112-0029-AN07-6"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | DCS                          | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | DCS-FIELD                   | AO-IS-R              | 4-20 mA          | -      | D01 Modified |
| 401                                                                                          | Gas Compression Dehydration Package      | PCV-2152  | Pressure Control Valve (Globe Valve)            | GAS-111-0072-FN05-6"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0013 (1 of 3) | GAS       | DCS                          | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 62                                                                                                                                                                                | 52.9            | 85          | 59.40/59.36 | -                   | -                    | -                  | DCS-FIELD                   | AO-IS-R              | 4-20 mA          | -      | D01 Modified |
| 402                                                                                          | Lean Glycol Storage Tank                 | TG-2161   | Temperature Gauge (Bimetal)                     | TEG-111-0001-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.9                                                                                                                                                                               | 2.07            | 85          | 50          | 0-100 °C            | -                    | °C                 | -                           | -                    | -                | Note 2 | D01 Modified |
| 403                                                                                          | Lean Glycol Storage Tank                 | PG-2161   | Pressure Gauge (Diaphragm)                      | NIT-112-0010-AN01-1"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | 0-1 barg            | -                    | Barg               | -                           | -                    | -                | -      | D01 Modified |
| 404                                                                                          | Lean Glycol Storage Tank                 | PVSV-2161 | Pressure Vacation Safety Valve                  | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | GAS       | TK-2102                      | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160 mbarg/-7mbarg                                                                                                                                               | 0.1             | 85          | AMB         | VTA                 | -                    | -                  | -                           | -                    | -                | 1      | D01 Modified |
| 405                                                                                          | Lean Glycol Storage Tank                 | PVSV-2162 | Pressure Vacation Safety Valve                  | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | GAS       | TK-2102                      | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | VTA                 | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 406                                                                                          | Lean Glycol Storage Tank                 | PRV-2161  | Pressure Relief Valve                           | NIT-112-0010-AN01-1"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.5             | 85          | AMB         | VTA                 | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 407                                                                                          | Lean Glycol Storage Tank                 | PRV-2162  | Pressure Relief Valve                           | NIT-112-0010-AN01-1"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | VTA                 | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 408                                                                                          | Lean Glycol Storage Tank                 | RO-2162   | Restriction Orifice                             | TEG-111-0003-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.5             | 85          | AMB         | -                   | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 409                                                                                          | Lean Glycol Storage Tank                 | PG-2162   | Pressure Gauge (Diaphragm)                      | TEG-111-0007-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 1.9                                                                                                                                                                               | 1.5             | 85          | 50          | 0-2.5 barg          | -                    | Barg               | -                           | -                    | -                | -      | D01 Modified |
| 410                                                                                          | Lean Glycol Storage Tank                 | LG-2162   | Level Gauge (Reflex)                            | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | TK-2102                      | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | VTA                 | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 411                                                                                          | Lean Glycol Storage Tank                 | LIT-2162  | Level Indicating Transmitter                    | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | TK-2102                      | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | VTA                 | -                    | -                  | FIELD-DCS                   | AI-IS-NR             | 4-20 mA          | -      | D01 Modified |
| 412                                                                                          | Lean Glycol Storage Tank                 | LIT-2161  | Level Indicating Transmitter                    | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | TK-2102                      | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | VTA                 | -                    | -                  | FIELD-ESD                   | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 413                                                                                          | Lean Glycol Storage Tank                 | PIT-2161  | Pressure Indicating Transmitter (Diaphragm)     | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | VTA                 | -                    | Barg               | FIELD-DCS                   | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 414                                                                                          | Lean Glycol Storage Tank                 | CC-2162   | Corrosion Coupon (Strip Ladder)                 | TK-2102                                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER+160                                                                                                                                                             | 0.1             | 85          | AMB         | -                   | -                    | -                  | -                           | -                    | -                | -      | D01 Modified |
| 415                                                                                          | Lean Glycol Storage Tank                 | PG-2298   | Pressure Gauge (Bourdon)                        | TEG-111-0004-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 4                                                                                                                                                                                 | 0.5             | 85          | 50          | 0-1 barg            | -                    | Barg               | -                           | -                    | -                | -      | D01 Modified |
| 416                                                                                          | Lean Glycol Storage Tank                 | PG-2163A  | Pressure Gauge (Bourdon)                        | TEG-111-0002-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.9                                                                                                                                                                               | 2.07            | 85          | 50          | 0-4 barg            | -                    | Barg               | -                           | -                    | -                | -      | D01 Modified |
| 417                                                                                          | Lean Glycol Storage Tank                 | PG-2163B  | Pressure Gauge (Bourdon)                        | TEG-111-0006-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0014          | LIQUID    | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.9                                                                                                                                                                               | 2.07            | 85          | 50          | 0-4 barg            | -                    | Barg               | -                           | -                    | -                | -      | D01 Modified |
| 418                                                                                          | Instrument & Plant Air System            | PIT-2202  | Pressure Indicating Transmitter (Diaphragm)     | PLA-112-0010-AN04-1 1/2"-PT                                                                                              | BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 9               | 90          | 65          | VTA                 | 0-18 barg            | Barg               | FIELD-ESD                   | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 419                                                                                          | Instrument & Plant Air System            | PIT-2204  | Pressure Indicating Transmitter (Diaphragm)     | PLA-112-0010-AN04-1 1/2"-PT                                                                                              | BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 9               | 90          | 65          | VTA                 | 0-18 barg            | Barg               | FIELD-DCS                   | AI-IS-R              | 4-20 mA          | -      | D01 Modified |
| 420                                                                                          | Instrument & Plant Air System            | PCV-2201  | Pressure Control Valve (Globe Valve)            | PLA-112-0010-AN04-1 1/2"-PT                                                                                              | BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2) | GAS       | DCS                          | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 9               | 90          | 65          | -                   | -                    | -                  | DCS-FIELD                   | AO-IS-R              | 4-20 mA          | -      | D01 Modified |
| 421                                                                                          | Instrument & Plant Air System            | EZSC-2231 | Limit Switch Close (Included in ON-OFF Valve)   | PLA-112-0010-AN04-1 1/2"-PT                                                                                              | BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 9               | 90          | 65          | -                   | -                    | -                  | FIELD-ESD                   | DI-NIS-R             | 24 VDC           | -      | D01 Modified |
| 422                                                                                          | Instrument & Plant Air System            | EZSO-2231 | Limit Switch Open (Included in ON-OFF Valve)    | PLA-112-0010-AN04-1 1/2"-PT                                                                                              | BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 9               | 90          | 65          | -                   | -                    | -                  | FIELD-ESD                   | DI-NIS-R             | 24 VDC           | -      | D01 Modified |
| 423                                                                                          | Instrument & Plant Air System            | ESOV-2231 | ESD Solenoid Valve                              | PLA-112-0010-AN04-1 1/2"-PT                                                                                              | BK-GCS-PEDCO-120-PR-PI-0015 (1 of 2) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 9               | 90          | 65          | -                   | -                    | -                  | ESD-FIELD                   | DO-NIS-R             | 24VDC LOOP POWER | -      | D01 Modified |
| 424                                                                                          | Instrument & Plant Air System            | PIT-2203  | Pressure Indicating Transmitter (Diaphragm)     | ISA-112-0012-AZ00-2"-NP                                                                                                  | BK-GCS-PEDCO-120-PR-PI-0015 (2 of 2) | GAS       | LOCAL                        | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                              | 8               | 90          | 65          | VTA                 | 0-16 barg            | Barg               | FIELD-DCS                   | AI-IS-R              | 4-20 mA          | -      | D01 Modified |



|                                                                                                        |                               |           |                                             |                                                                                                                           |                                         |         |                        |                             |                             |                             |                             |                                                                                                                                                                                                                   |              |             |            |                  |                   |                 |                          |          |             |        |              |
|--------------------------------------------------------------------------------------------------------|-------------------------------|-----------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------|------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------|------------------|-------------------|-----------------|--------------------------|----------|-------------|--------|--------------|
| <div><br/>NISOC</div> |                               |           |                                             | <div>تنگ‌داشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                         |         |                        |                             |                             |                             |                             | <div></div> <div>شماره صفحه: ۱۶ از ۱۹</div> |              |             |            |                  |                   |                 |                          |          |             |        |              |
|                                                                                                        |                               |           |                                             |                                                                                                                           |                                         |         |                        |                             |                             |                             |                             |                                                                                                                                                                                                                   |              |             |            |                  |                   |                 |                          |          |             |        |              |
|                                                                                                        |                               |           |                                             | شماره پیمان:                                                                                                              |                                         |         |                        | پروژه                       | پسته کاری                   | صادرکننده                   | نماینده                     | رشته                                                                                                                                                                                                              | نوع مدرک     | سریال       | نسخه       |                  |                   |                 |                          |          |             |        |              |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                               |           |                                             | BK                                                                                                                        | GCS                                     | PEDCO   | 120                    | IN                          | LI                          | 0001                        | D00                         |                                                                                                                                                                                                                   |              |             |            |                  |                   |                 |                          |          |             |        |              |
| IDENTIFICATION                                                                                         |                               |           |                                             | REFERENCE                                                                                                                 |                                         |         |                        |                             |                             |                             |                             | PRESSURE                                                                                                                                                                                                          |              | TEMPERATURE |            | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE | SIGNAL TYPE | NOTE   | REV.         |
| ITEM                                                                                                   | PROJECT PART                  | TAG NAME  | DESCRIPTION                                 | LINE/ EQUIPMENT                                                                                                           | P&ID NO.                                | SERVICE | LOCATION/ PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCATION LAYOUT DWG NO.     | DESIGN (BARG)                                                                                                                                                                                                     | OPER. (BARG) | DESIGN (°C) | OPER. (°C) |                  |                   |                 |                          |          |             |        |              |
| 425                                                                                                    | Instrument & Plant Air System | PG-2201   | Pressure Gauge (Bourdon)                    | ISA-112-0012-AZ00-2"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | 0-16 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 426                                                                                                    | Instrument & Plant Air System | PRV-2201  | Pressure Relief Valve                       | ISA-112-0012-AZ00-2"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | VTA              | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 427                                                                                                    | Instrument & Plant Air System | PIT-2201A | Pressure Indicating Transmitter (Diaphragm) | ISA-112-0012-AZ00-2"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | VTA              | 0-16 barg         | -               | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 428                                                                                                    | Instrument & Plant Air System | PIT-2201B | Pressure Indicating Transmitter (Diaphragm) | ISA-112-0012-AZ00-2"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | VTA              | 0-16 barg         | -               | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 429                                                                                                    | Instrument & Plant Air System | PIT-2201C | Pressure Indicating Transmitter (Diaphragm) | ISA-112-0012-AZ00-2"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | VTA              | 0-16 barg         | -               | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 430                                                                                                    | Instrument & Plant Air System | PSV-2201  | Pressure Safety Valve                       | ISA-112-0008-AZ00-2"-NP                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | -                | -                 | -               | -                        | -        | -           | -      | D01 Modified |
| 431                                                                                                    | Instrument & Plant Air System | PSV-2201B | Pressure Safety Valve                       | PLA-112-0009-AN04-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | -                | -                 | -               | -                        | -        | -           | -      | D01 Modified |
| 432                                                                                                    | Instrument & Plant Air System | PG-2202   | Pressure Gauge (Bourdon)                    | V-2203                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | 0-16 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 433                                                                                                    | Instrument & Plant Air System | LG-2201   | Level Gauge (Reflex)                        | V-2203                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0015<br>(2 of 2) | LIQUID  | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 90          | 65         | VTA              | -                 | -               | -                        | -        | -           | -      | D01 Modified |
| 434                                                                                                    | Nitrogen Generation System    | PIT-2211A | Pressure Indicating Transmitter             | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | VTA              | 0-12 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 435                                                                                                    | Nitrogen Generation System    | PIT-2211B | Pressure Indicating Transmitter             | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | VTA              | 0-12 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 436                                                                                                    | Nitrogen Generation System    | PIT-2211C | Pressure Indicating Transmitter             | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | VTA              | 0-12 barg         | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 437                                                                                                    | Nitrogen Generation System    | PG-2211   | Pressure Gauge (Bourdon)                    | NIT-112-0024-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | 0-16 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 438                                                                                                    | Nitrogen Generation System    | PSV-2211A | Pressure Safety Valve                       | NIT-112-0022-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 439                                                                                                    | Nitrogen Generation System    | PSV-2211B | Pressure Safety Valve                       | NIT-112-0023-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | -                | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 440                                                                                                    | Nitrogen Generation System    | PG-2212   | Pressure Gauge (Bourdon)                    | V-2204                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | 0-16 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 441                                                                                                    | Nitrogen Generation System    | PIT-2213  | Pressure Indicating Transmitter (Diaphragm) | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | VTA              | 0-16 barg         | Barg            | FIELD-DCS                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 442                                                                                                    | Nitrogen Generation System    | PCV-2211  | Pressure Control Valve (Globe Valve)        | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | DCS                    | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | -                | -                 | -               | DCS-FIELD                | AO-IS-R  | 4-20 mA     |        | D01 Modified |
| 443                                                                                                    | Nitrogen Generation System    | FIT-2211  | Flow Indicating Transmitter (Diaphragm)     | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0012 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | -                | -                 | -               | FIELD-DCS                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 444                                                                                                    | Nitrogen Generation System    | FE-2211   | Flow Element (Orifice Plate)                | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | -                | -                 | -               | -                        | -        | -           | -      | D01 Modified |
| 445                                                                                                    | Nitrogen Generation System    | TT-2211   | Temperature Transmitter                     | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | 0-160 °C         | -                 | °C              | FIELD-DCS                | AI-IS-R  | 4-20 mA     | Note 2 | D01 Modified |
| 446                                                                                                    | Nitrogen Generation System    | PIT-2214  | Pressure Indicating Transmitter (Diaphragm) | NIT-112-0021-AN01-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0016             | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | VTA              | 0-16 barg         | Barg            | FIELD-DCS                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 447                                                                                                    | Nitrogen Generation System    | LG-2211   | Level Gauge (Reflex)                        | V-2204                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0016             | LIQUID  | V-2204                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5                                                                                                                                                                                                              | 8            | 85          | 60         | VTA              | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 448                                                                                                    | Close Drain System            | TG-2221   | Temperature Gauge (Bimetal)                 | V-2202                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | GAS     | V-2202                 | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5                                                                                                                                                                                                           | 0.5          | 85          | 60         | 0-160 °C         | -                 | °C              | -                        | -        | -           | Note 2 | D01 Modified |
| 449                                                                                                    | Close Drain System            | PG-2221   | Pressure Gauge (Bourdon)                    | V-2202                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5                                                                                                                                                                                                           | 0.5          | 85          | 60         | 0-1 barg         | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 450                                                                                                    | Close Drain System            | LIT-2222  | Level Indicating Transmitter                | V-2202                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | LIQUID  | V-2202                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | 5.5                                                                                                                                                                                                               | 0.5          | 85          | 60         | VTA              | -                 | -               | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 451                                                                                                    | Close Drain System            | LG-2221   | Level Gauge (Reflex)                        | V-2202                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | LIQUID  | V-2202                 | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5                                                                                                                                                                                                           | 0.5          | 85          | 60         | VTA              | -                 | -               | -                        | -        | -           |        | D01 Modified |
| 452                                                                                                    | Close Drain System            | LIT-2221  | Level Indicating Transmitter                | V-2202                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | LIQUID  | V-2202                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5                                                                                                                                                                                                           | 0.5          | 85          | 60         | VTA              | -                 | -               | FIELD-DCS                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 453                                                                                                    | Close Drain System            | PIT-2222A | Pressure Indicating Transmitter (Diaphragm) | CDH-112-0032-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5                                                                                                                                                                                                           | 0.8          | 85          | 5          |                  | 0-2 barg          | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 454                                                                                                    | Close Drain System            | PIT-2222B | Pressure Indicating Transmitter (Diaphragm) | CDH-112-0033-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5                                                                                                                                                                                                           | 0.8          | 85          | 5          |                  | 0-2 barg          | Barg            | FIELD-ESD                | AI-IS-R  | 4-20 mA     |        | D01 Modified |
| 455                                                                                                    | Close Drain System            | PG-2232A  | Pressure Gauge (Bourdon)                    | CDH-112-0033-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0017<br>(2 of 2) | GAS     | LOCAL                  | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.8                                                                                                                                                                                                              | 7.2          | 85          | 5          | 0-16 barg        | -                 | Barg            | -                        | -        | -           |        | D01 Modified |
| 456                                                                                                    | Close Drain System            |           |                                             |                                                                                                                           |                                         |         |                        |                             |                             |                             |                             |                                                                                                                                                                                                                   |              |             |            |                  |                   |                 |                          |          |             |        |              |



|                                                                                                        |                  |           |                                               |                                                                                                                           |                                         |           |                                   |                             |                             |                             |                             |                      |                 |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |
|--------------------------------------------------------------------------------------------------------|------------------|-----------|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------|-----------------|-------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|--------------------------|-----------|------------------|--------|-----------------|
| <div><br/>NISOC</div> |                  |           |                                               | <div>تنگ‌داشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                         |           |                                   |                             |                             |                             |                             |                      |                 |             |            | <div></div> |                   |                 |                          |           |                  |        |                 |
|                                                                                                        |                  |           |                                               |                                                                                                                           |                                         |           |                                   |                             |                             |                             |                             |                      |                 |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |
|                                                                                                        |                  |           |                                               | INSTRUMENT INDEX                                                                                                          |                                         |           |                                   |                             |                             |                             |                             |                      |                 |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |
| شماره پیمان:                                                                                           |                  |           |                                               | پروژه                                                                                                                     | بسته کاری                               | صادرکننده | نمپهلات                           | رشته                        | نوع مدرک                    | سریال                       | نسخه                        | شماره صفحه: ۱۷ از ۱۹ |                 |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                  |           |                                               | BK                                                                                                                        | GCS                                     | PEDCO     | 120                               | IN                          | LI                          | 0001                        | D00                         |                      |                 |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |
| IDENTIFICATION                                                                                         |                  |           |                                               | REFERENCE                                                                                                                 |                                         |           |                                   |                             |                             |                             |                             | PRESSURE             |                 | TEMPERATURE |            | INSTRUMENT RANGE                                                                                                                                                                  | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE      | NOTE   | REV.            |
| ITEM                                                                                                   | PROJECT PART     | TAG NAME  | DESCRIPTION                                   | LINE/ EQUIPMENT                                                                                                           | P&ID NO.                                | SERVICE   | LOCATIO<br>N/<br>PACKAG<br>E NAME | DATA SHEET NO.              | HOOK UP DWG.<br>NO.         | LOOP DWG NO.                | LOCAION LAYOUT<br>DWG NO.   | DESIGN (BARG)        | OPER.<br>(BARG) | DESIGN (°C) | OPER. (°C) |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |
| 461                                                                                                    | LP Flare System  | LIT-2253  | Level Indicating Transmitter                  | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          |        | D01<br>Modified |
| 462                                                                                                    | LP Flare System  | LIT-2252A | Level Indicating Transmitter                  | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AIHS-R    | 4-20 mA          |        | D01<br>Modified |
| 463                                                                                                    | LP Flare System  | LIT-2252B | Level Indicating Transmitter                  | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          |        | D01<br>Modified |
| 464                                                                                                    | LP Flare System  | LIT-2252C | Level Indicating Transmitter                  | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AIHS-R    | 4-20 mA          |        | D01<br>Modified |
| 465                                                                                                    | LP Flare System  | TG-2251   | Temperature Gauge (Bimetal)                   | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | GAS       | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | 0-100 °C                                                                                                                                                                          | -                 | °C              | -                        | -         | -                | Note 2 | D01<br>Modified |
| 466                                                                                                    | LP Flare System  | PG-2251   | Pressure Gauge (Bourdon)                      | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | GAS       | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | 0-1 barg                                                                                                                                                                          | -                 | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 467                                                                                                    | LP Flare System  | LG-2251   | Level Gauge (Reflex)                          | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | VTA                                                                                                                                                                               | -                 | -               | -                        | -         | -                |        | D01<br>Modified |
| 468                                                                                                    | LP Flare System  | LIT-2251  | Level Indicating Transmitter                  | V-2201                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | V-2201                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | VTA                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AIHS-R    | 4-20 mA          |        | D01<br>Modified |
| 469                                                                                                    | LP Flare System  | PIT-2252  | Pressure Indicating Transmitter (Diaphragm)   | FL-112-0004-AN07-10"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.5             | 85          | 32         | 0-10 barg                                                                                                                                                                         | 0-1 barg          | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 470                                                                                                    | LP Flare System  | PIT-2251A | Pressure Indicating Transmitter (Diaphragm)   | CDH-112-0038-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.6             | 85          | 32         |                                                                                                                                                                                   | 0-2 barg          | Barg            | FIELD-ESD                | AIHS-R    | 4-20 mA          |        | D01<br>Modified |
| 471                                                                                                    | LP Flare System  | PIT-2251B | Pressure Indicating Transmitter (Diaphragm)   | CDH-112-0036-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | LIQUID    | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/7.5              | 0.6             | 85          | 32         |                                                                                                                                                                                   | 0-2 barg          | Barg            | FIELD-ESD                | AI-IS-R   | 4-20 mA          |        | D01<br>Modified |
| 472                                                                                                    | LP Flare System  | PG-2251A  | Pressure Gauge (Bourdon)                      | CDH-112-0038-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | GAS       | P-2201 A                          | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9.6                  | 1.8             | 85          | 32         | 0-4 barg                                                                                                                                                                          | -                 | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 473                                                                                                    | LP Flare System  | PG-2251B  | Pressure Gauge (Bourdon)                      | CDH-112-0037-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0020<br>(2 of 2) | GAS       | P-2201 B                          | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9.6                  | 1.8             | 85          | 32         | 0-4 barg                                                                                                                                                                          | -                 | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 474                                                                                                    | Oily Water Sewer | LIT-2273  | Level Indicating Transmitter                  | SU-2202                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0021             | LIQUID    | SU-2202                           | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                  | ATM             | AMB         | AMB        | VTA                                                                                                                                                                               |                   | -               | FIELD-DCS                | AI-IS-NR  | 4-20 mA          |        | D01<br>Modified |
| 475                                                                                                    | Fuel Gas System  | PG-2271   | Pressure Gauge (Bourdon)                      | GAS-112-0010-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | 0-10 barg                                                                                                                                                                         | -                 | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 476                                                                                                    | Fuel Gas System  | TG-2271   | Temperature Gauge (Bimetal)                   | FLG-112-0010-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0002 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | 0-100 °C                                                                                                                                                                          | -                 | °C              | -                        | -         | -                | Note 2 | D01<br>Modified |
| 477                                                                                                    | Fuel Gas System  | CP-2271   | Corrosion Probe (LPR probes)                  | FLG-112-0010-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | -                                                                                                                                                                                 | -                 | mm              | -                        | -         | -                |        | D01<br>Modified |
| 478                                                                                                    | Fuel Gas System  | CC-2271   | Corrosion Coupon (Strip Ladder)               | FLG-112-0010-AN07-2"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0014 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | -                                                                                                                                                                                 | -                 | mm              | -                        | -         | -                |        | D01<br>Modified |
| 479                                                                                                    | Fuel Gas System  | FG-2272   | Rotameter                                     | FL-112-0040-AN07-2"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                |        | D01<br>Modified |
| 480                                                                                                    | Fuel Gas System  | PG-2274   | Pressure Gauge (Bourdon)                      | FL-112-0040-AN07-2"-PT                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | 0-10 barg                                                                                                                                                                         | -                 | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 481                                                                                                    | Fuel Gas System  | EZSC-2272 | Limit Switch Close (Included in ON-OFF Valve) | GAS-111-0004-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 5.1             | 85          | 36.9       | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |        | D01<br>Modified |
| 482                                                                                                    | Fuel Gas System  | EZSO-2272 | Limit Switch Open (Included in ON-OFF Valve)  | GAS-111-0004-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 5.1             | 85          | 36.9       | -                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC           |        | D01<br>Modified |
| 483                                                                                                    | Fuel Gas System  | ESOV-2272 | ESD Solenoid Valve                            | GAS-111-0004-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 5.1             | 85          | 36.9       | -                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R  | 24VDC LOOP POWER | -      | D01<br>Modified |
| 484                                                                                                    | Fuel Gas System  | ESDV-2272 | Emergency Shut Down Valve (Ball Valve)        | GAS-111-0004-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 5.1             | 85          | 36.9       | -                                                                                                                                                                                 | -                 | -               | -                        | -         | -                | -      | D01<br>Modified |
| 485                                                                                                    | Fuel Gas System  | PIT-2272  | Pressure Indicating Transmitter (Diaphragm)   | FLG-112-0006-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | VTA                                                                                                                                                                               | 0-10 barg         | Barg            | FIELD-DCS                | AIHS-R    | 4-20 mA          |        | D01<br>Modified |
| 486                                                                                                    | Fuel Gas System  | PCV-2272  | Pressure Control Valve (Globe Valve)          | FLG-112-0006-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | DCS                               | BK-GCS-PEDCO-120-IN-DT-0011 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 5.1             | 85          | 36.9       | -                                                                                                                                                                                 | -                 | -               | DCS-FIELD                | AO-IS-R   | 4-20 mA          |        | D01<br>Modified |
| 487                                                                                                    | Fuel Gas System  | PG-2272   | Pressure Gauge (Bourdon)                      | GAS-111-0004-AN07-3"-PT                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 5.1             | 85          | 36.9       | 0-10 barg                                                                                                                                                                         | -                 | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 488                                                                                                    | Fuel Gas System  | PDG-2271  | Differential Pressure Gauge (Diaphragm)       | V-2205                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | VTA                                                                                                                                                                               | 0-1 bara          | Bar             | -                        | -         | -                |        | D01<br>Modified |
| 489                                                                                                    | Fuel Gas System  | LIT-2272  | Level Indicating Transmitter                  | V-2205                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | V-2205                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | VTA                                                                                                                                                                               | -                 | -               | FIELD-ESD                | AI-IS-R   | 4-20 mA          |        | D01<br>Modified |
| 490                                                                                                    | Fuel Gas System  | LG-2271   | Level Gauge (Reflex)                          | V-2205                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | V-2205                            | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | VTA                                                                                                                                                                               |                   | -               | -                        | -         | -                |        | D01<br>Modified |
| 491                                                                                                    | Fuel Gas System  | LIT-2271  | Level Indicating Transmitter                  | V-2205                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | V-2205                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | VTA                                                                                                                                                                               |                   | -               | FIELD-DCS                | AIHS-R    | 4-20 mA          |        | D01<br>Modified |
| 492                                                                                                    | Fuel Gas System  | PG-2273   | Pressure Gauge (Bourdon)                      | V-2205                                                                                                                    | BK-GCS-PEDCO-120-PR-PI-0022             | GAS       | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9                | 4.9             | 85          | 36.7       | 0-10 barg                                                                                                                                                                         |                   | Barg            | -                        | -         | -                |        | D01<br>Modified |
| 493                                                                                                    | Fuel Gas         |           |                                               |                                                                                                                           |                                         |           |                                   |                             |                             |                             |                             |                      |                 |             |            |                                                                                                                                                                                   |                   |                 |                          |           |                  |        |                 |



| <div><br/>NISOC</div> |                                  |           |                                             | تنگه‌داشت و افزایش تولید میدان نفتی بینک<br>سطح الارض |                                      |           |                         |                             |                             |                             |                             |                   |              |             |            | <div></div> <div>شماره صفحه: ۱۸ از ۱۹</div> |                   |                 |                          |          |                  |        |              |  |  |
|--------------------------------------------------------------------------------------------------------|----------------------------------|-----------|---------------------------------------------|-------------------------------------------------------|--------------------------------------|-----------|-------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------|--------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|--------------------------|----------|------------------|--------|--------------|--|--|
|                                                                                                        |                                  |           |                                             | احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک         |                                      |           |                         |                             |                             |                             |                             |                   |              |             |            |                                                                                                                                                                                                                   |                   |                 |                          |          |                  |        |              |  |  |
|                                                                                                        |                                  |           |                                             | INSTRUMENT INDEX                                      |                                      |           |                         |                             |                             |                             |                             |                   |              |             |            |                                                                                                                                                                                                                   |                   |                 |                          |          |                  |        |              |  |  |
| شماره پیمان:                                                                                           |                                  |           |                                             | پروژه                                                 | بسته کاری                            | صادرکننده | نمیدلات                 | رشته                        | نوع مدرک                    | سریال                       | نسخه                        |                   |              |             |            |                                                                                                                                                                                                                   |                   |                 |                          |          |                  |        |              |  |  |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                                  |           |                                             | BK                                                    | GCS                                  | PEDCO     | 120                     | IN                          | LI                          | 0001                        | D00                         |                   |              |             |            |                                                                                                                                                                                                                   |                   |                 |                          |          |                  |        |              |  |  |
| IDENTIFICATION                                                                                         |                                  |           |                                             | REFERENCE                                             |                                      |           |                         |                             |                             |                             |                             | PRESSURE          |              | TEMPERATURE |            | INSTRUMENT RANGE                                                                                                                                                                                                  | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE | SIGNAL TYPE      | NOTE   | REV.         |  |  |
| ITEM                                                                                                   | PROJECT PART                     | TAG NAME  | DESCRIPTION                                 | LINE/ EQUIPMENT                                       | P&ID NO.                             | SERVICE   | LOCATION / PACKAGE NAME | DATA SHEET NO.              | HOOK UP DWG. NO.            | LOOP DWG NO.                | LOCATION LAYOUT DWG NO.     | DESIGN (BARG)     | OPER. (BARG) | DESIGN (°C) | OPER. (°C) |                                                                                                                                                                                                                   |                   |                 |                          |          |                  |        |              |  |  |
| 496                                                                                                    | Fuel Gas System                  | ESOV-2271 | ESD Solenoid Valve                          | CDH-112-0039-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 36.7       | -                                                                                                                                                                                                                 | -                 | -               | ESD-FIELD                | DO-NIS-R | 24VDC LOOP POWER | -      | D01 Modified |  |  |
| 497                                                                                                    | Fuel Gas System                  | XV-2271   | ON/OFF VAVLE (Ball Valve)                   | CDH-112-0039-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 36.7       | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 498                                                                                                    | Fuel Gas System                  | FG-2271   | Rotameter                                   | CHM-112-0020-AS00-3/4"-NP                             | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                 | ATM          | 55          | AMB        | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 499                                                                                                    | Fuel Gas System                  | PIT-2271  | Pressure Indicating Transmitter (Diaphragm) | FLG-112-0106-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 33.6       | VTA                                                                                                                                                                                                               | 0-10 barg         | Barg            | FIELD-DCS                | AI-IS-R  | 4-20 mA          |        | D01 Modified |  |  |
| 500                                                                                                    | Fuel Gas System                  | TIT-2271  | Temperature Indicating Transmitter (RTD)    | FLG-112-0106-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0005 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 33.6       | 0-100 °C                                                                                                                                                                                                          | -                 | °C              | FIELD-DCS                | AI-IS-R  | 4-20 mA          | Note 2 | D01 Modified |  |  |
| 501                                                                                                    | Fuel Gas System                  | FE-2271   | Flow Element (Orifice Plate)                | FLG-112-0106-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0013 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 33.6       | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 502                                                                                                    | Fuel Gas System                  | FIT-2271  | Flow Indicating Transmitter (Diaphragm)     | FLG-112-0106-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0012 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 33.6       | -                                                                                                                                                                                                                 | -                 | -               | FIELD-DCS                | AI-IS-R  | 4-20 mA          |        | D01 Modified |  |  |
| 503                                                                                                    | Fuel Gas System                  | PSV-2271  | Pressure Safety Valve                       | FLG-111-0011-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | F.V/9             | 4.9          | 85          | 33.6       | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 504                                                                                                    | Fuel Gas System                  | PRV-2272  | Pressure Relief Valve                       | FLG-112-0040-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                 | 4.9          | 85          | 36.7       | VTA                                                                                                                                                                                                               | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 505                                                                                                    | Fuel Gas System                  | PSV-2271B | Pressure Safety Valve                       | FLG-112-0009-AN07-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0022          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 9                 | 4.9          | 85          | 36.7       | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 506                                                                                                    | Fire Water Diesel Oil Drum       | PG-2281A  | Pressure Gauge (Bourdon)                    | V-2206A                                               | BK-GCS-PEDCO-120-PR-PI-0023 (1 of 2) | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | 0-1 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 507                                                                                                    | Fire Water Diesel Oil Drum       | LIT-2281A | Level Indicating Transmitter                | V-2206A                                               | BK-GCS-PEDCO-120-PR-PI-0023 (1 of 2) | LIQUID    | V-2206                  | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AI-IS-NR | 4-20 mA          |        | D01 Modified |  |  |
| 508                                                                                                    | Fire Water Diesel Oil Drum       | LG-2281A  | Level Gauge (Reflex)                        | V-2206A                                               | BK-GCS-PEDCO-120-PR-PI-0023 (1 of 2) | LIQUID    | V-2206                  | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 509                                                                                                    | Fire Water Diesel Oil Drum       | PG-2282A  | Pressure Gauge (Diaphragm)                  | Discharge P-2206A                                     | BK-GCS-PEDCO-120-PR-PI-0023 (1 of 2) | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.1               | 0.95         | 85          | 50         | 0-1.6 barg                                                                                                                                                                                                        | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 510                                                                                                    | Fire Water Diesel Oil Drum       | PG-2283A  | Pressure Gauge (Bourdon)                    | Charge P-2206A                                        | BK-GCS-PEDCO-120-PR-PI-0023 (1 of 2) | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.6               | 0.11         | 85          | 50         | 0-1 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 511                                                                                                    | Fire Water Diesel Oil Drum       | TSV-2281A | Temperature Safety Valve                    | DO-112-0005A-AN01-1"-PT<br>DO-112-0006A-AN01-1"-PT    | BK-GCS-PEDCO-120-PR-PI-0023 (1 of 2) | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.5               | ATM          | 85          | AMB        | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 512                                                                                                    | Diesel Generator Diesel Oil Drum | PG-2281B  | Pressure Gauge (Bourdon)                    | V-2206B                                               | BK-GCS-PEDCO-120-PR-PI-0023 (2 of 2) | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | 0-1 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 513                                                                                                    | Diesel Generator Diesel Oil Drum | LIT-2281B | Level Indicating Transmitter                | V-2206B                                               | BK-GCS-PEDCO-120-PR-PI-0023 (2 of 2) | LIQUID    | V-2206                  | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AI-IS-NR | 4-20 mA          |        | D01 Modified |  |  |
| 514                                                                                                    | Diesel Generator Diesel Oil Drum | LG-2281B  | Level Gauge (Reflex)                        | V-2206B                                               | BK-GCS-PEDCO-120-PR-PI-0023 (2 of 2) | LIQUID    | V-2206                  | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 515                                                                                                    | Diesel Generator Diesel Oil Drum | PG-2282B  | Pressure Gauge (Diaphragm)                  | Discharge P-2206B                                     | BK-GCS-PEDCO-120-PR-PI-0023 (2 of 2) | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.1               | 0.95         | 85          | 50         | 0-1.6 barg                                                                                                                                                                                                        | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 516                                                                                                    | Diesel Generator Diesel Oil Drum | PG-2283B  | Pressure Gauge (Bourdon)                    | Charge P-2206B                                        | BK-GCS-PEDCO-120-PR-PI-0023 (2 of 2) | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.6               | 0.11         | 85          | 50         | 0-1 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 517                                                                                                    | Diesel Generator Diesel Oil Drum | TSV-2281B | Temperature Safety Valve                    | DO-112-0005B-AN01-1"-PT<br>DO-112-0006B-AN01-1"-PT    | BK-GCS-PEDCO-120-PR-PI-0023 (2 of 2) | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.5               | ATM          | 85          | AMB        | -                                                                                                                                                                                                                 | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 518                                                                                                    | Potable Water System             | LIT-2291  | Level Indicating Transmitter                | TK-2209                                               | BK-GCS-PEDCO-120-PR-PI-0024          | LIQUID    | TK-2209                 | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM+FULL OF WATER | ATM          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | FIELD-DCS                | AI-IS-NR | 4-20 mA          |        | D01 Modified |  |  |
| 519                                                                                                    | Potable Water System             | PG-2291   | Pressure Gauge (Bourdon)                    | PTW-112-0003-AZ00-2"-NP                               | BK-GCS-PEDCO-120-PR-PI-0024          | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.6               | 1.95         | 85          | AMB        | 0-4 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 520                                                                                                    | Potable Water System             | PG-2292   | Pressure Gauge (Diaphragm)                  | PTW-112-0001-AZ00-2"-NP                               | BK-GCS-PEDCO-120-PR-PI-0024          | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.65              | 0.15         | 85          | AMB        | 0-1 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 521                                                                                                    | Glycol Sump Drum                 | PRV-2291  | Pressure Relief Valve                       | NIT-112-0005-AN01-1"-PT                               | BK-GCS-PEDCO-120-PR-PI-0025          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 12.5              | 8            | 85          | 60         | VTA                                                                                                                                                                                                               | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 522                                                                                                    | Glycol Sump Drum                 | PG-2295   | Pressure Gauge (Bourdon)                    | NIT-111-0009-AN04-1"-PT                               | BK-GCS-PEDCO-120-PR-PI-0025          | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 4                 | 0.5          | 85          | AMB        | 0-1 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |
| 523                                                                                                    | Glycol Sump Drum                 | PRV-2292  | Pressure Relief Valve                       | NIT-111-0009-AN04-1"-PT                               | BK-GCS-PEDCO-120-PR-PI-0025          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.6               | 0.1          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 524                                                                                                    | Glycol Sump Drum                 | PSV-2293  | Pressure Saftey Valve                       | TEG-111-0113-AN04-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0025          | GAS       | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0009 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.5               | 0.1          | 85          | AMB        | VTA                                                                                                                                                                                                               | -                 | -               | -                        | -        | -                | -      | D01 Modified |  |  |
| 525                                                                                                    | Glycol Sump Drum                 | PG-2293   | Pressure Gauge (Bourdon)                    | TEG-111-0011-AN04-2"-PT                               | BK-GCS-PEDCO-120-PR-PI-0025          | LIQUID    | LOCAL                   | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 2.6               | 2.1          | 85          | AMB        | 0-4 barg                                                                                                                                                                                                          | -                 | Barg            | -                        | -        | -                | -      | D01 Modified |  |  |



|                                                                                                        |                   |           |                                               |                                                                                                                          |                                      |            |                                   |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |            |                  |                   |                 |                          |           |             |      |              |
|--------------------------------------------------------------------------------------------------------|-------------------|-----------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|------------|------------------|-------------------|-----------------|--------------------------|-----------|-------------|------|--------------|
| <div><br/>NISOC</div> |                   |           |                                               | <div>تجهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</div> <div>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</div> |                                      |            |                                   |                             |                             |                             |                             | <div></div> |                 |             |            |                  |                   |                 |                          |           |             |      |              |
|                                                                                                        |                   |           |                                               | INSTRUMENT INDEX                                                                                                         |                                      |            |                                   |                             |                             |                             |                             |                                                                                                                                                                                   |                 |             |            |                  |                   |                 |                          |           |             |      |              |
| شماره پیمان:                                                                                           |                   |           |                                               | پروژه                                                                                                                    |                                      | بسته کاری  |                                   | صادرکننده                   |                             | نمیدلات                     |                             | رشته                                                                                                                                                                              |                 | نوع مدرک    |            | سریال            |                   | نسخه            |                          |           |             |      |              |
| ۰۵۳ – ۰۷۳ – ۹۱۸۴                                                                                       |                   |           |                                               | BK                                                                                                                       |                                      | GCS        |                                   | PEDCO                       |                             | 120                         |                             | IN                                                                                                                                                                                |                 | LI          |            | 0001             |                   | D00             | شماره صفحه: ۱۹ از ۱۹     |           |             |      |              |
| IDENTIFICATION                                                                                         |                   |           |                                               | REFERENCE                                                                                                                |                                      |            |                                   |                             |                             |                             |                             | PRESSURE                                                                                                                                                                          |                 | TEMPERATURE |            | INSTRUMENT RANGE | CALIBRATION RANGE | INSTRUMENT UNIT | CONTROL SYSTEM (FROM/TO) | I/O TYPE  | SIGNAL TYPE | NOTE | REV.         |
| ITEM                                                                                                   | PROJECT PART      | TAG NAME  | DESCRIPTION                                   | LINE/ EQUIPMENT                                                                                                          | P&ID NO.                             | SERVICE    | LOCATIO<br>N/<br>PACKAG<br>E NAME | DATA SHEET NO.              | HOO<br>K UP DWG.<br>NO.     | LOOP DWG NO.                | LOCAION LAYOUT DWG NO.      | DESIGN (BARG)                                                                                                                                                                     | OPER.<br>(BARG) | DESIGN (°C) | OPER. (°C) |                  |                   |                 |                          |           |             |      |              |
| 526                                                                                                    | Glycol Sump Drum  | PIT-2112  | Pressure Indicating Transmitter (Diaphragm)   | V-2107                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0025          | LIQUID     | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 3.6                                                                                                                                                                               | 0.1             | 85          | AMB        |                  | 0-0.2 barg        | Barg            | FIELD-DCS                | AI-IS-R   | 4-20 mA     |      | D01 Modified |
| 527                                                                                                    | Glycol Sump Drum  | LIT-2293  | Level Indicating Transmitter                  | V-2107                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0025          | LIQUID     | V-2205                            | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 3.6                                                                                                                                                                               | 0.1             | 85          | AMB        | VTA              | -                 | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA     |      | D01 Modified |
| 528                                                                                                    | Glycol Sump Drum  | PG-2294   | Pressure Gauge (Bourdon)                      | V-2107                                                                                                                   | BK-GCS-PEDCO-120-PR-PI-0025          | GAS        | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 3.6                                                                                                                                                                               | 0.1             | 85          | AMB        | 0-1 barg         | -                 | Barg            | -                        | -         | -           |      | D01 Modified |
| 529                                                                                                    | Fire Water System | PG-2301   | Pressure Gauge (Bourdon)                      | FWA-113-0001-AN04-3"-PT                                                                                                  | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 530                                                                                                    | Fire Water System | ZSC-2301  | Limit Switch Close (Included in ON-OFF Valve) | FWA-112-0007-AN04-3"-PT                                                                                                  | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 1.5                                                                                                                                                                               | 1               | 85          | 5-55       | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC      |      | D01 Modified |
| 531                                                                                                    | Fire Water System | ZSO-2301  | Limit Switch Open (Included in ON-OFF Valve)  | FWA-112-0007-AN04-3"-PT                                                                                                  | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | 1.5                                                                                                                                                                               | 1               | 85          | 5-55       | -                | -                 | -               | FIELD-DCS                | DI-NIS-NR | 24 VDC      | -    | D01 Modified |
| 532                                                                                                    | Fire Water System | XV-2301   | ON/OFF VAVLE (Ball Valve)                     | FWA-112-0007-AN04-3"-PT                                                                                                  | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0010 | BK-GCS-PEDCO-120-IN-DG-0003 | -                           | BK-GCS-PEDCO-120-IN-PY-0004 | 1.5                                                                                                                                                                               | 1               | 85          | 5-55       |                  |                   |                 |                          |           |             |      | D01 Modified |
| 533                                                                                                    | Fire Water System | LG-2301   | Level Gauge (Float)                           | TK-2301-A                                                                                                                | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                                                                                                                                                                               | ATM             | 85          | 5-55       | VTA              |                   | -               | -                        | -         | -           |      | D01 Modified |
| 534                                                                                                    | Fire Water System | LIT-2301  | Level Indicating Transmitter                  | TK-2301-A                                                                                                                | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | TK-2301-A                         | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                                                                                                                                                                               | ATM             | 85          | 5-55       | VTA              |                   | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA     |      | D01 Modified |
| 535                                                                                                    | Fire Water System | LSLL-2301 | Level Switch Low Low (Float)                  | TK-2301-A                                                                                                                | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             |                             | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                                                                                                                                                                               | ATM             | 85          | 5-55       | -                | -                 | -               | F&G                      | DI-NIS-R  | 24 VDC      |      | D01 Modified |
| 536                                                                                                    | Fire Water System | LG-2302   | Level Gauge (Float)                           | TK-2301-B                                                                                                                | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0003 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                                                                                                                                                                               | ATM             | 85          | 5-55       | VTA              |                   | -               | -                        | -         | -           |      | D01 Modified |
| 537                                                                                                    | Fire Water System | LIT-2302  | Level Indicating Transmitter                  | TK-2301-B                                                                                                                | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | TK-2301-A                         | BK-GCS-PEDCO-120-IN-DT-0006 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0005 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                                                                                                                                                                               | ATM             | 85          | 5-55       | VTA              |                   | -               | FIELD-DCS                | AI-IS-R   | 4-20 mA     |      | D01 Modified |
| 538                                                                                                    | Fire Water System | LSLL-2302 | Level Switch Low Low (Float)                  | TK-2301-B                                                                                                                | BK-GCS-PEDCO-120-SA-PI-0001 (1 of 2) | Fire Water | LOCAL                             |                             | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 | ATM                                                                                                                                                                               | ATM             | 85          | 5-55       | -                | -                 | -               | F&G                      | DI-NIS-R  | 24 VDC      |      | D01 Modified |
| 539                                                                                                    | Fire Water System | PT-2301   | Pressure Transmitter                          | FWA-113-0025-AN04-12"-PT                                                                                                 | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0004 | BK-GCS-PEDCO-120-IN-DG-0002 | BK-GCS-PEDCO-120-IN-DG-0004 | BK-GCS-PEDCO-120-IN-PY-0003 |                                                                                                                                                                                   |                 |             |            | -                | -                 | -               | F&G                      | DI-NIS-R  | 24 VDC      |      | D01 Modified |
| 540                                                                                                    | Fire Water System | PG-2303A  | Pressure Gauge (Bourdon)                      | FWA-113-0026-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2302A                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 541                                                                                                    | Fire Water System | PG-2304A  | Pressure Gauge (Bourdon)                      | Discharge P-2302A                                                                                                        | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2302A                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 542                                                                                                    | Fire Water System | PG-2303B  | Pressure Gauge (Bourdon)                      | FWA-113-0027-AN04-2"-PT                                                                                                  | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2302B                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 543                                                                                                    | Fire Water System | PG-2304B  | Pressure Gauge (Bourdon)                      | Discharge P-2302B                                                                                                        | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2302B                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 544                                                                                                    | Fire Water System | PG-2304   | Pressure Gauge (Bourdon)                      | FWA-113-0018-AN04-12"-PT                                                                                                 | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2302B                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   |                 |                          |           |             |      | D01 Modified |
| 545                                                                                                    | Fire Water System | FG-2301   | Rotameter                                     | FWA-113-0007-AN04-10"-PT                                                                                                 | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | LOCAL                             | BK-GCS-PEDCO-120-IN-DT-0018 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       |                  |                   |                 | -                        | -         | -           |      | D01 Modified |
| 546                                                                                                    | Fire Water System | PG-2301A  | Pressure Gauge (Bourdon)                      | FWA-113-0020-AN04-12"-PT                                                                                                 | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2301A                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 547                                                                                                    | Fire Water System | PG-2302A  | Pressure Gauge (Bourdon)                      | Discharge P-2301A                                                                                                        | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2301A                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 548                                                                                                    | Fire Water System | PG-2301B  | Pressure Gauge (Bourdon)                      | FWA-113-0019-AN04-12"-PT                                                                                                 | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2301A                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |
| 549                                                                                                    | Fire Water System | PG-2302B  | Pressure Gauge (Bourdon)                      | Discharge P-2301A                                                                                                        | BK-GCS-PEDCO-120-SA-PI-0001 (2 of 2) | Fire Water | P-2301A                           | BK-GCS-PEDCO-120-IN-DT-0001 | BK-GCS-PEDCO-120-IN-DG-0002 | -                           | BK-GCS-PEDCO-120-IN-PY-0003 | 16.5                                                                                                                                                                              | 11              | 85          | 5-55       | 0-25 barg        |                   | Barg            | -                        | -         | -           |      | D01 Modified |