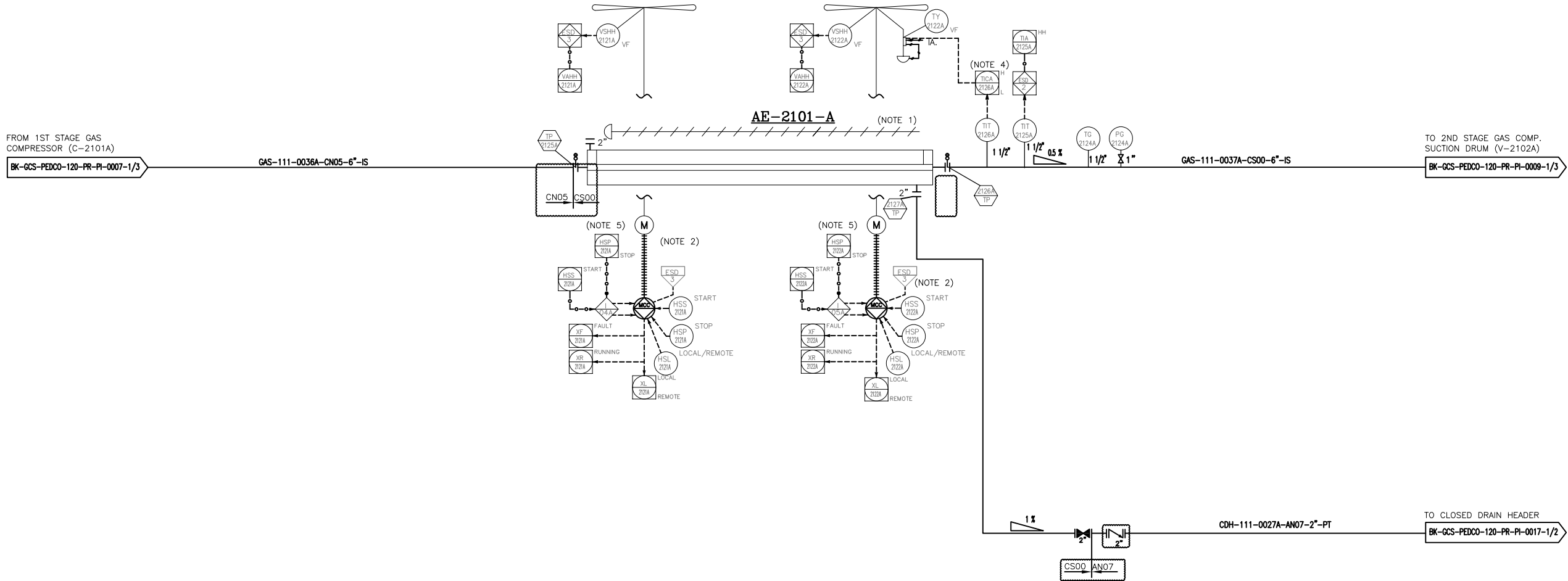


AE-2101A  
1ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #A  
DESIGN DUTY : (381.8) kW  
DESIGN PRESS. : 22 barg  
DESIGN TEMP. : 155 °C  
TRIM LINE : TRM-AE-2101-0510-CS00-NP



- NOTES
- 1- MANUAL LOUVER CONTROL.
  - 2- HALF OF FANS SHALL BE EQUIPPED WITH VARIABLE PITCH AUTOMATIC SYSTEM TO CONTROL FLUID OUTLET TEMPERATURE.
  - 3- DELETED.
  - 4- TEMPERATURE TO BE ADJUSTED BY BLADE CONTROL SYSTEM.
  - 5- TO BE PROVIDED BY COOLER VENDOR.
  - 6- PARTIAL STROKE DEVICE TO BE CONSIDERED FOR ALL ESDV'S ACTIVATED BY ESD 1,0.
  - 7- ALL DRAIN LINE SHALL BE CONNECTED TO CLOSED DRAIN HEADER AND ALL VENT LINES SHALL BE CONNECTED TO THE FLARE HEADER.
  - 8- FOR MORE DETAIL REFER TO VENDOR'S PID DOC. NO. "BK-GCS-AA-120-PR-PI-0001".

LEGEND

VF: BY COOLER VENDOR

| REFERENCE DRAWING                | DRG. No.                    |
|----------------------------------|-----------------------------|
| Process Flow Diagram             | BK-GCS-PEDCO-120-PR-PF-0001 |
| Symbol & Legend For PFD and P&ID | BK-GCS-PEDCO-120-PR-PI-0001 |

KEY PLAN

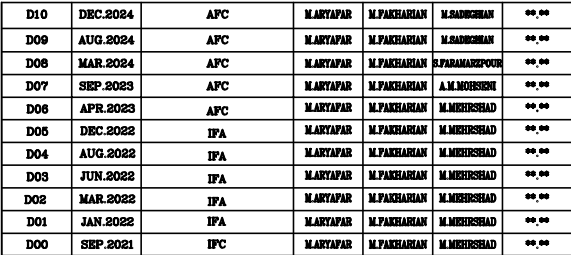
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|     |          |     |          |             |               |       |
|-----|----------|-----|----------|-------------|---------------|-------|
| D10 | DEC.2024 | APC | MARTAPAR | M.PAKHARIAN | M.SADOSHIAN   | 00.00 |
| D09 | AUG.2024 | APC | MARTAPAR | M.PAKHARIAN | M.SADOSHIAN   | 00.00 |
| D08 | MAR.2024 | APC | MARTAPAR | M.PAKHARIAN | S.PARAKHARIAN | 00.00 |
| D07 | SEP.2023 | APC | MARTAPAR | M.PAKHARIAN | A.M.MOHESSINI | 00.00 |
| D06 | APR.2023 | APC | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D05 | DEC.2022 | IFA | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D04 | AUG.2022 | IFA | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D03 | JUN.2022 | IFA | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D02 | MAR.2022 | IFA | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D01 | JAN.2022 | IFA | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D00 | SEP.2021 | IPC | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |

| REV.                                                                                                                                   | DATE | P.O.I.S                     | PREP.                                                                                                                  | CHK.      | APP. | AUT. |
|----------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------|------------------------------------------------------------------------------------------------------------------------|-----------|------|------|
| PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION                                                     |      |                             |                                                                                                                        |           |      |      |
| PROJECT NO.: 971020                                                                                                                    |      |                             |                                                                                                                        |           |      |      |
| EPC CONTRACTOR:                                                                                                                        |      |                             | EPD/EPC CONTRACTOR (GC):                                                                                               |           |      |      |
| <br>HURGAN ENERGY - DESIGN & INSPECTION COMPANIES |      |                             | <br>PETROIRAN DEVELOPMENT COMPANY |           |      |      |
| DRAWING TITLE: P&ID - 1st STAGE GAS COMPRESSION AIR COOLERS                                                                            |      |                             |                                                                                                                        |           |      |      |
| SCALE                                                                                                                                  | SIZE | DRAWING NO.                 |                                                                                                                        | SHEET NO. | REV. |      |
| NS                                                                                                                                     | A3   | BK-GCS-PEDCO-120-PR-PI-0008 |                                                                                                                        | 1 OF 3    | D10  |      |

|                                                                                                                             |          |            |            |              |            |
|-----------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|--------------|------------|
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| BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION                                                        |          |            |            |              |            |
| DATE                                                                                                                        | SCALE    | DRAWING BY | CHECKED BY | PROJECT ENG. |            |
|                                                                                                                             |          |            |            |              |            |
| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                           |          |            |            |              |            |
| APPROVED FOR CONSTRUCTION                                                                                                   |          |            | BY:        | DATE:        |            |
| BUDGET REF.                                                                                                                 | LOCATION | SIZE CLASS | SERIAL NO. | SHEET        | REVISION   |
| 053-073-9184                                                                                                                | F        | 2          | A          | 708786       | 1 OF 3 D10 |

\_\_\_\_\_



**NOTES**

- 1- MANUAL LOUVER CONTROL.
- 2- HALF OF FANS SHALL BE EQUIPPED WITH VARIABLE PITCH AUTOMATIC SYSTEM TO CONTROL FLUID OUTLET TEMPERATURE.
- 3- DELETED.
- 4- TEMPERATURE TO BE ADJUSTED BY BLADE CONTROL SYSTEM.
- 5- TO BE PROVIDED BY COOLER VENDOR.
- 6- PARTIAL STRIKE DEVICE TO BE CONSIDERED FOR ALL ESDV'S ACTIVATED BY ESD 1,0.
- 7- ALL DRAIN LINE SHALL BE CONNECTED TO CLOSED DRAIN HEADER AND ALL VENT LINES SHALL BE CONNECTED TO THE FLARE HEADER.
- 8- FOR MORE DETAIL REFER TO VENDOR'S PID DOC. NO.

"BK-GCS-AA-120-PR-PI-0001".

### LEGEND

VF: BY COOLER VENDOR

|                                                 |                                    |
|-------------------------------------------------|------------------------------------|
| <b>REFERENCE DRAWING</b>                        | <b>DRG. No.</b>                    |
| <b>Process Flow Diagram</b>                     | <b>BK-GCS-PEDCO-120-PR-PF-0001</b> |
| <b>Symbol &amp; Legend For PFD and P&amp;ID</b> | <b>BK-GCS-PEDCO-120-PR-PI-0001</b> |

## KEY PLAN

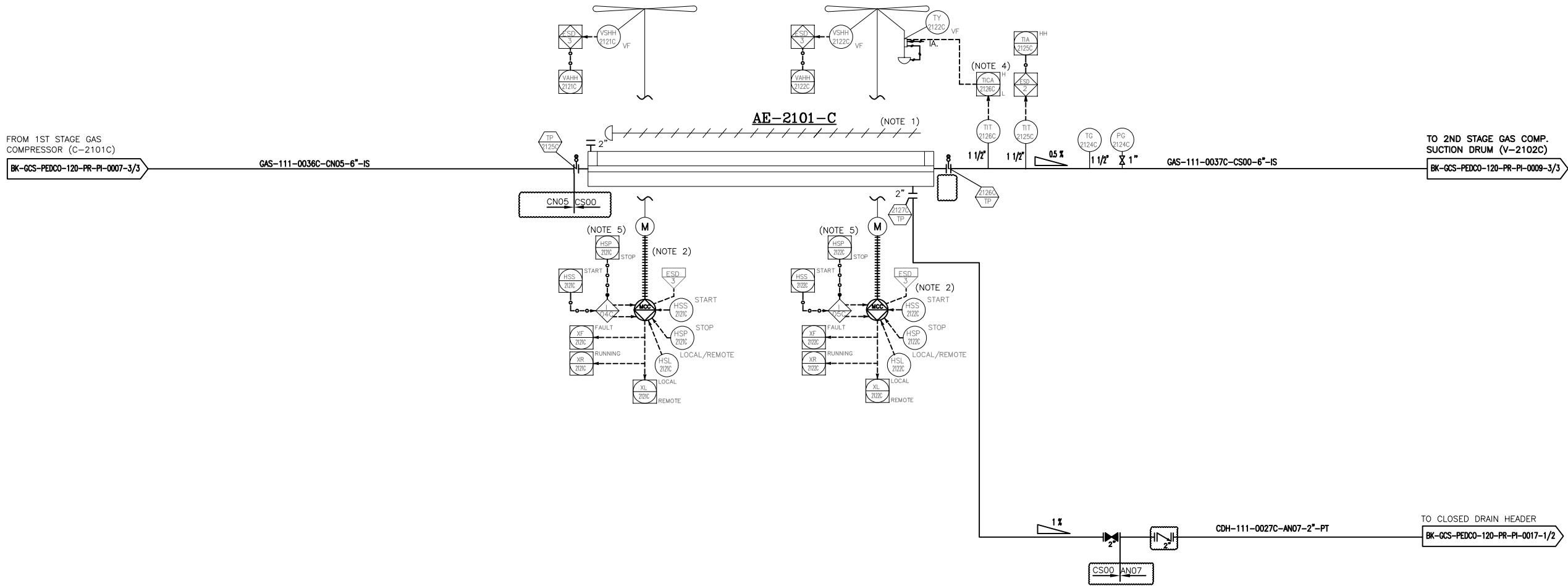
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|      |             |         |      |            |      |
| REV. | DESCRIPTION | BY      | DATE | BY         | DATE |
|      |             | CHECKED |      | REV. APPR. |      |

اصل و کاپیہ نسخہ این نقشہ و حق اقتباسی متعلق بہ شرکت ملی مناطق نفت خیز جنوب میبایند.

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N.I.S.O.C./ FIELDS

| BINK OILFIELD DEVELOPMENT<br>SURFACE FACILITIES<br>GAS COMPRESSOR STATION |          |            |            |              |        |          |  |
|---------------------------------------------------------------------------|----------|------------|------------|--------------|--------|----------|--|
| DATE                                                                      | SCALE    | DRAWING BY | CHECKED BY | PROJECT ENG. |        |          |  |
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| NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                         |          |            |            |              |        |          |  |
| APPROVED FOR CONSTRUCTION                                                 |          |            | BY:        | DATE:        |        |          |  |
| UDRET REF                                                                 | LOCATION | SIZE       | CLASS      | SERIAL NO.   | SHEET  | REVISION |  |
| 3-073-9184                                                                | F        | 2          | A          | 708756       | 2 OF 3 | D10      |  |

AE-2101C  
1ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #C  
DESIGN DUTY : 681.5 kW  
DESIGN PRESS. : 22 barg  
DESIGN TEMP. : 155 °C  
TRIM LINE : TRM-AE-2101-0510-CS00-NP



- NOTES
- 1- MANUAL LOUVER CONTROL.
  - 2- HALF OF FANS SHALL BE EQUIPPED WITH VARIABLE PITCH AUTOMATIC SYSTEM TO CONTROL FLUID OUTLET TEMPERATURE.
  - 3- DELETED.
  - 4- TEMPERATURE TO BE ADJUSTED BY BLADE CONTROL SYSTEM.
  - 5- TO BE PROVIDED BY COOLER VENDOR.
  - 6- PARTIAL STROKE DEVICE TO BE CONSIDERED FOR ALL ESDV'S ACTIVATED BY ESD 1,0.
  - 7- ALL DRAIN LINE SHALL BE CONNECTED TO CLOSED DRAIN HEADER AND ALL VENT LINES SHALL BE CONNECTED TO THE FLARE HEADER.
  - 8- FOR MORE DETAIL REFER TO VENDOR'S PID DOC. NO. "BK-GCS-AA-120-PR-PI-0001".

LEGEND

VF: BY COOLER VENDOR

| REFERENCE DRAWING                | DRG. No.                    |
|----------------------------------|-----------------------------|
| Process Flow Diagram             | BK-GCS-PEDCO-120-PR-PF-0001 |
| Symbol & Legend For PFD and P&ID | BK-GCS-PEDCO-120-PR-PI-0001 |

KEY PLAN

| REV. | DESCRIPTION | CHECKED | BY       | DATE  | BY       | DATE |
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| 025  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
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| 042  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 043  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 044  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
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| 063  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
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| 076  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 077  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 078  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 079  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
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| 081  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
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| 084  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 085  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 086  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 087  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
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| 090  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 091  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 092  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 093  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 094  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 095  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 096  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 097  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 098  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 099  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |
| 100  | 0000000000  | 00.00   | 000.0000 | 00.00 | 000.0000 |      |

|      |          |         |          |             |               |       |
|------|----------|---------|----------|-------------|---------------|-------|
| D10  | DEC.2024 | APC     | MARTAPAR | M.PAKHARIAN | M.SADOSHIAN   | 00.00 |
| D09  | AUG.2024 | APC     | MARTAPAR | M.PAKHARIAN | M.SADOSHIAN   | 00.00 |
| D08  | MAR.2024 | APC     | MARTAPAR | M.PAKHARIAN | S.PARMADEPOOR | 00.00 |
| D07  | SEP.2023 | APC     | MARTAPAR | M.PAKHARIAN | A.M.MOHESSINI | 00.00 |
| D06  | APR.2023 | APC     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D05  | DEC.2022 | IFA     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D04  | AUG.2022 | IFA     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D03  | JUN.2022 | IFA     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D02  | MAR.2022 | IFA     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D01  | JAN.2022 | IFA     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| D00  | SEP.2021 | IPC     | MARTAPAR | M.PAKHARIAN | M.MEHRSHAD    | 00.00 |
| REV. | DATE     | P.O.I.S | PREP.    | CHK.        | APP.          | AUT.  |

|                                                                                                                                           |      |                                                                                                                              |                |
|-------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|----------------|
| PROJECT NAME:                                                                                                                             |      | BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES<br>GAS COMPRESSOR STATION                                                      |                |
| PROJECT NO.:                                                                                                                              |      | 971020                                                                                                                       |                |
| EPC CONTRACTOR:                                                                                                                           |      | EPD/EPC CONTRACTOR (GC):                                                                                                     |                |
| <br>HIRGAN ENERGY - DESIGN & INSPECTION<br>COMPANIES |      | <br>PETROIRAN<br>DEVELOPMENT<br>COMPANY |                |
| DRAWING TITLE:                                                                                                                            |      |                                                                                                                              |                |
| P&ID - 1st STAGE GAS COMPRESSION AIR COOLERS                                                                                              |      |                                                                                                                              |                |
| SCALE                                                                                                                                     | SIZE | DRAWING NO.                                                                                                                  | SHEET NO. REV. |
| NS                                                                                                                                        | A3   | BK-GCS-PEDCO-120-PR-PI-0008                                                                                                  | 3 OF 3 D10     |