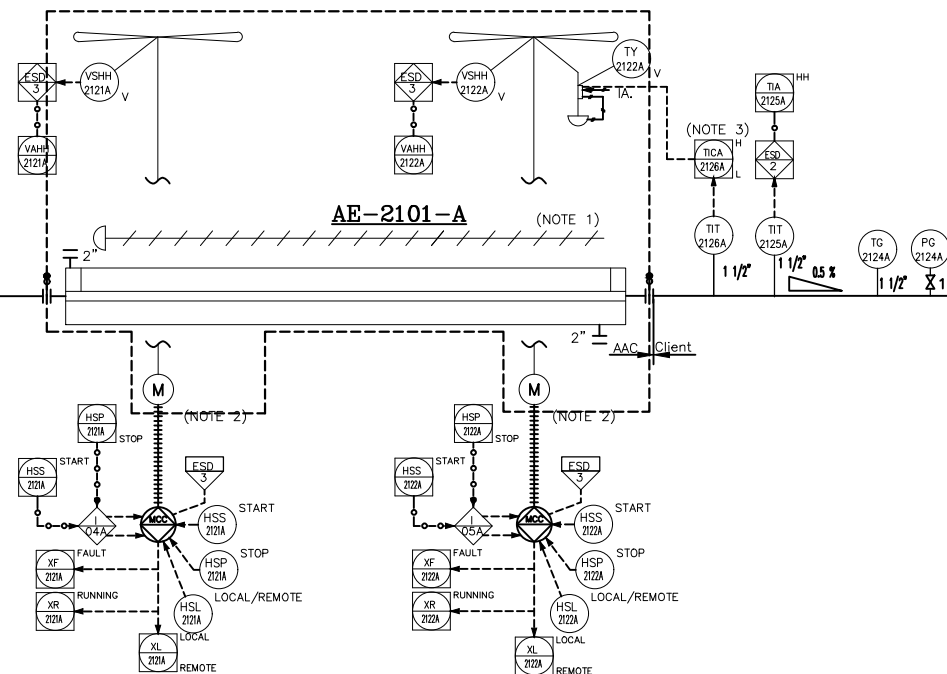


AE-2101A  
2ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #A  
DESIGN DUTY : 381.8 kW  
DESIGN PRESS. : 24.5 barg  
DESIGN TEMP. : 155 °C



## NOTES

- 1- MANUAL LOUVER CONTROL.
- 2- HALF OF FANS SHALL BE EQUIPPED WITH VARIABLE PITCH AUTOMATIC SYSTEM TO CONTROL FLUID OUTLET TEMPERATURE.
- 3- TEMPERATURE TO BE ADJUSTED BY BLADE CONTROL SYSTEM.

### LEGEND

| REFERENCE DRAWING | DRG. No. |
|-------------------|----------|
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## KEY PLAN

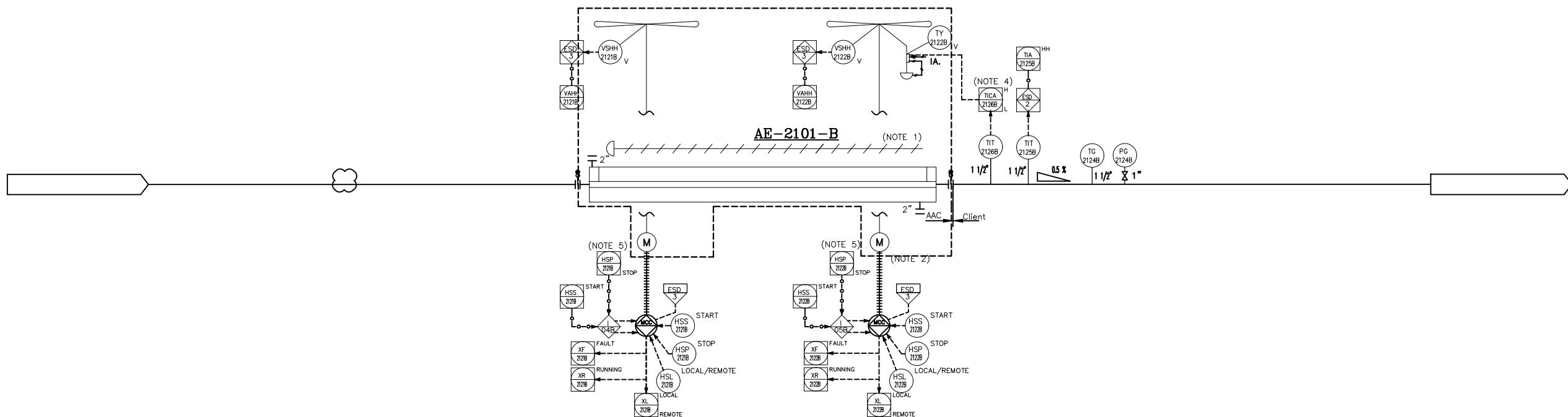
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------|-------|-------------|-------------|------|---------------------------------------------------------------------------------------------------------------------|-------------|---------|-------|------------|----------------|
| V02                                                                                                                                                                                                                          | NOV.2024 | AFC                      | AMC   | M.PAKHARIAN | M.SADIGHIAN |      | REV.                                                                                                                | DESCRIPTION | BY      | DATE  | BY         | DATE           |
| V01                                                                                                                                                                                                                          | OCT.2024 | IFA                      | AMC   | M.PAKHARIAN | M.SADIGHIAN |      |                                                                                                                     |             | CHECKED |       | REV.       | APPR.          |
| V00                                                                                                                                                                                                                          | AUG.2024 | IFA                      | AMC   | M.PAKHARIAN | M.SADIGHIAN |      |                                                                                                                     |             |         |       |            |                |
| REV.                                                                                                                                                                                                                         | DATE     | P.O.I.S                  | PREP. | CHK.        | APP.        | AUT. |                                                                                                                     |             |         |       |            |                |
| PROJECT NAME:                                                                                                                                                                                                                |          |                          |       |             |             |      | BINAQ OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION                                                |             |         |       |            |                |
| PROJECT NO.:                                                                                                                                                                                                                 |          |                          |       |             |             |      | 971020                                                                                                              |             |         |       |            |                |
| EPC CONTRACTOR:                                                                                                                                                                                                              |          |                          |       |             |             |      | EPD/EPC CONTRACTOR (GC):                                                                                            |             |         |       |            |                |
|  <br>HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES |          |                          |       |             |             |      |  PETROIRAN DEVELOPMENT COMPANY |             |         |       |            |                |
| DRAWING TITLE:                                                                                                                                                                                                               |          |                          |       |             |             |      | NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                   |             |         |       |            |                |
| P&ID - 1st STAGE GAS COMPRESSION AIR COOLERS                                                                                                                                                                                 |          |                          |       |             |             |      |                                                                                                                     |             |         |       |            |                |
| SCALE                                                                                                                                                                                                                        | SIZE     | DRAWING NO.              |       |             | SHEET NO.   | REV. | APPROVED FOR CONSTRUCTION                                                                                           |             |         | BY:   | DATE:      |                |
| NS                                                                                                                                                                                                                           | A3       | BK-GCS-AA-120-PR-PI-0001 |       |             | 1 OF 6      | V02  | BUDGET REF.                                                                                                         | LOCATION    | SIZE    | CLASS | SERIAL NO. | SHEET REVISION |
|                                                                                                                                                                                                                              |          |                          |       |             |             |      |                                                                                                                     |             |         |       | 1 OF 6     |                |

VENDOR LOGO:

**AAC**

Project No: 1720

AE-2101B  
2ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #B  
 DESIGN DUTY : 381.8 kW  
 DESIGN PRESS. : 24.5 barg  
 DESIGN TEMP. : 155 °C



## 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.

### LEGEND

| REFERENCE DRAWING | DRG. No. |
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### KEY PLAN

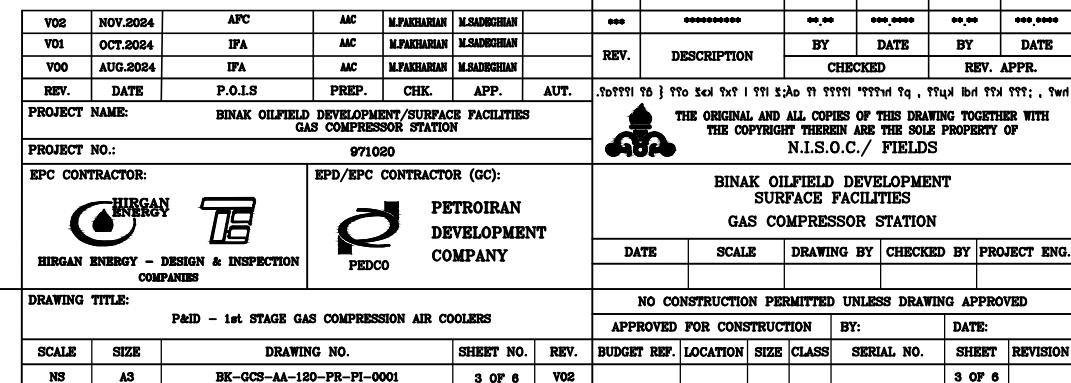
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| Y02  | NOV.2024 | APC     | AMC   | M.FAKHARAN | M.SADIGHAN | 000  | 0000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| V01  | OCT.2024 | IPA     | AMC   | M.FAKHARAN | M.SADIGHAN | REV. | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Y00  | AUG.2024 | IPA     | AMC   | M.FAKHARAN | M.SADIGHAN |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| REV. | DATE     | P.O.I.S | PREP. | CHK.       | APP.       | AUT. | 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VENDOR LOGO:

**AAC**

Project No: 1720

COOLER TRAIN #C  
DESIGN DUTY : 381.8 kW  
DESIGN PRESS. : 24.5 barg  
DESIGN TEMP. : 155 °C



- 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 ESD'S ACTIVATED BY ESD I/O.

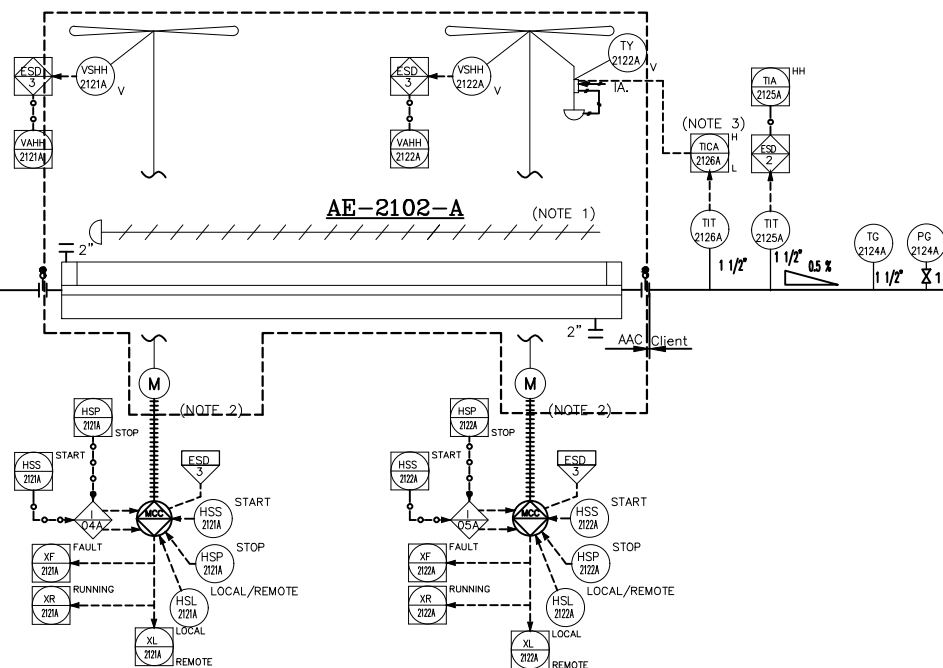
### LEGEND

| REFERENCE DRAWING | DRG. No. |
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## KEY PLAN

[illegible]

AE-2102A  
2ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #A  
 DESIGN DUTY : 582 kW  
 DESIGN PRESS. : 24.5 barg  
 DESIGN TEMP. : 155 °C



## NOTES

- 1- MANUAL LOUVER CONTROL.
- 2- HALF OF FANS SHALL BE EQUIPPED WITH VARIABLE PITCH AUTOMATIC SYSTEM TO CONTROL FLUID OUTLET TEMPERATURE.
- 3- TEMPERATURE TO BE ADJUSTED BY BLADE CONTROL SYSTEM.

### LEGEND

| REFERENCE DRAWING | DRG. No. |
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### KEY PLAN

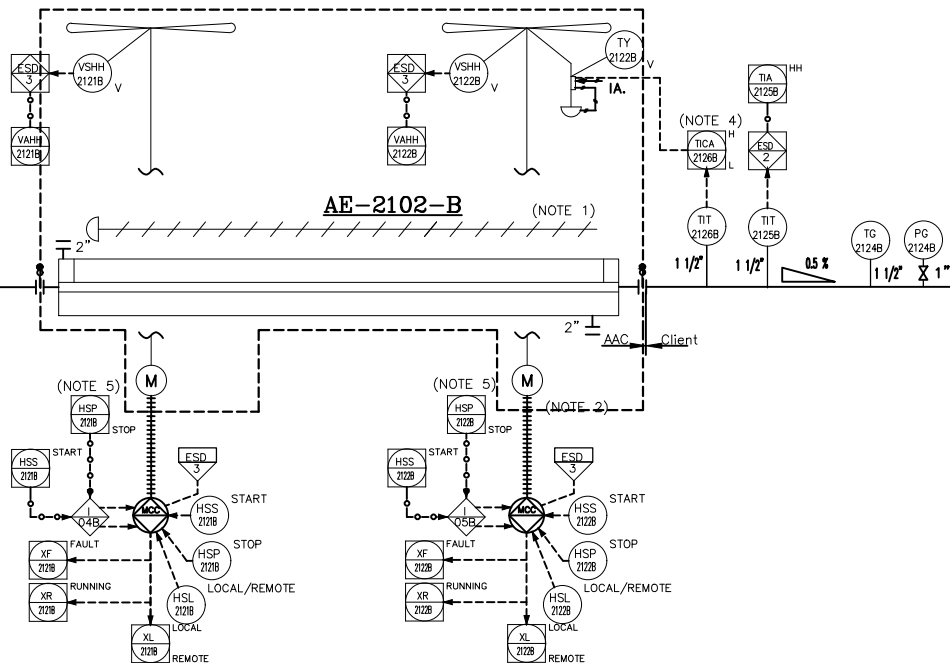
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| V02  | NOV.2024 | APC     | AMC   | M.PAKHMAN | M.SADIGHIAN |      | 000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| V01  | OCT.2024 | IPA     | AMC   | M.PAKHMAN | M.SADIGHIAN |      | REV.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DESCRIPTION | BY      | DATE     | BY         | DATE     |
| V00  | AUG.2024 | IPA     | AMC   | M.PAKHMAN | M.SADIGHIAN |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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VENDOR LOGO:

**AAC**

Project No: 1720

AE-2102B  
2ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #B  
DESIGN DUTY : (582 kW)  
DESIGN PRESS. : 24.5 barg  
DESIGN TEMP. : 155 °C



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.

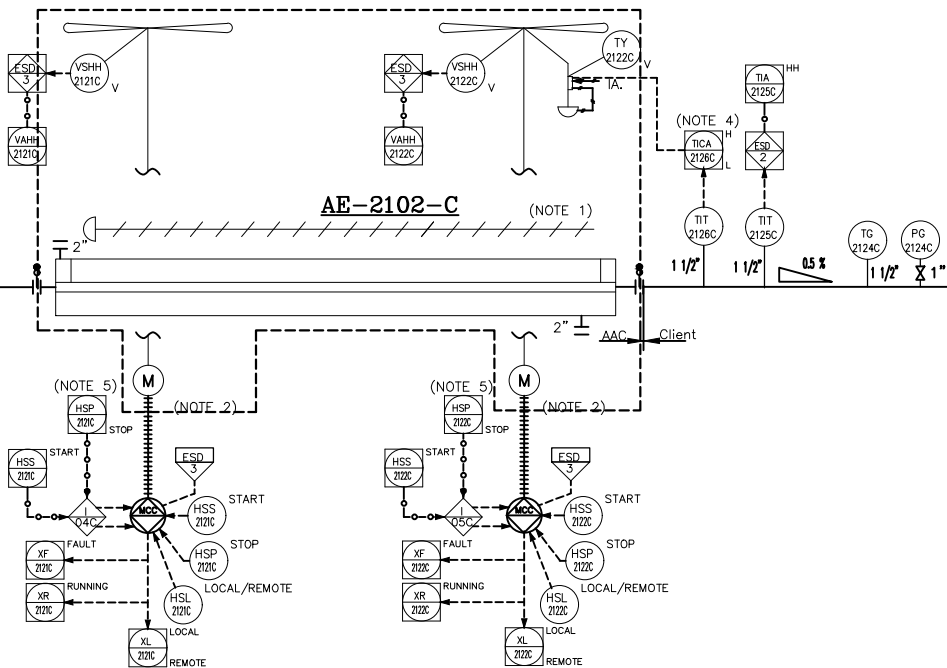
LEGEND

REFERENCE DRAWING DRG. No.

KEY PLAN

|                                                                                      |          |         |       |             |              |      |                                                                                                                                                                                   |             |         |          |            |          |
|--------------------------------------------------------------------------------------|----------|---------|-------|-------------|--------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|----------|------------|----------|
| VO2                                                                                  | NOV.2024 | APC     | AAC   | M.PAKHARIAN | M.SADDEGHIAN |      | ***                                                                                                                                                                               | *****       | 00.00   | 000.0000 | 00.00      | 000.0000 |
| VO1                                                                                  | OCT.2024 | IFA     | AAC   | M.PAKHARIAN | M.SADDEGHIAN |      | REV.                                                                                                                                                                              | DESCRIPTION | BY      | DATE     | BY         | DATE     |
| VO0                                                                                  | AUG.2024 | IFA     | AAC   | M.PAKHARIAN | M.SADDEGHIAN |      |                                                                                                                                                                                   |             | CHECKED |          | REV. APPR. |          |
| REV.                                                                                 | DATE     | P.O.I.S | PREP. | CHK.        | APP.         | AUT. | .تدقيق و ترميم : ۱۳۰۳/۰۸/۰۱<br>تدقيق و ترميم : ۱۳۰۳/۰۸/۰۱<br>تدقيق و ترميم : ۱۳۰۳/۰۸/۰۱<br>تدقيق و ترميم : ۱۳۰۳/۰۸/۰۱<br>تدقيق و ترميم : ۱۳۰۳/۰۸/۰۱<br>تدقيق و ترميم : ۱۳۰۳/۰۸/۰۱ |             |         |          |            |          |
| PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION   |          |         |       |             |              |      | THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS                                                       |             |         |          |            |          |
| PROJECT NO.: 971020                                                                  |          |         |       |             |              |      | BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION                                                                                                              |             |         |          |            |          |
| EPC CONTRACTOR: HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES                        |          |         |       |             |              |      | EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY                                                                                                                            |             |         |          |            |          |
| DRAWING TITLE: P&ID - 1st STAGE GAS COMPRESSION AIR COOLERS                          |          |         |       |             |              |      | NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                                                                                 |             |         |          |            |          |
| SCALE: NS SIZE: A3 DRAWING NO.: BK-GCS-AA-120-PR-PI-0001 SHEET NO.: 5 OF 6 REV.: V02 |          |         |       |             |              |      | APPROVED FOR CONSTRUCTION BY: DATE: BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION                                                                                     |             |         |          |            |          |

AE-2102C  
3ST STAGE GAS COMPRESSION AIR  
COOLER TRAIN #C  
DESIGN DUTY : 582 kW  
DESIGN PRESS. : 24.5 barg  
DESIGN TEMP. : 155 °C



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.

LEGEND

REFERENCE DRAWING

DRG. No.

KEY PLAN

|                                                                                                                                        |          |         |       |             |              |      |                                                                                                                        |             |                                                                                                                               |          |            |          |
|----------------------------------------------------------------------------------------------------------------------------------------|----------|---------|-------|-------------|--------------|------|------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------|
| VO2                                                                                                                                    | NOV.2024 | APC     | AAC   | M.PAKHARIAN | M.SADDEGHIAN |      | ***                                                                                                                    | *****       | 00.00                                                                                                                         | 000.0000 | 00.00      | 000.0000 |
| VO1                                                                                                                                    | OCT.2024 | IFA     | AAC   | M.PAKHARIAN | M.SADDEGHIAN |      | REV.                                                                                                                   | DESCRIPTION | BY                                                                                                                            | DATE     | BY         | DATE     |
| VO0                                                                                                                                    | AUG.2024 | IFA     | AAC   | M.PAKHARIAN | M.SADDEGHIAN |      |                                                                                                                        |             | CHECKED                                                                                                                       |          | REV. APPR. |          |
| REV.                                                                                                                                   | DATE     | P.O.I.S | PREP. | CHK.        | APP.         | AUT. |                                                                                                                        |             | .تدوین شده با نرم افزار اتو کاد ۲۰۱۴ و با استفاده از سیستم واحد متریک، تمامی ابعاد و مقیاسها بر اساس استاندارد ایران می باشد. |          |            |          |
| PROJECT NAME:                                                                                                                          |          |         |       |             |              |      | BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES<br>GAS COMPRESSOR STATION                                                |             |                                                                                                                               |          |            |          |
| PROJECT NO.:                                                                                                                           |          |         |       |             |              |      | 971020                                                                                                                 |             |                                                                                                                               |          |            |          |
| EPC CONTRACTOR:                                                                                                                        |          |         |       |             |              |      | EPD/EPC CONTRACTOR (GC):                                                                                               |             |                                                                                                                               |          |            |          |
| <br>HURGAN ENERGY - DESIGN & INSPECTION COMPANIES |          |         |       |             |              |      | <br>PETROIRAN DEVELOPMENT COMPANY |             |                                                                                                                               |          |            |          |
| DRAWING TITLE:                                                                                                                         |          |         |       |             |              |      | BINAK OILFIELD DEVELOPMENT<br>SURFACE FACILITIES<br>GAS COMPRESSOR STATION                                             |             |                                                                                                                               |          |            |          |
| P&ID - 1st STAGE GAS COMPRESSION AIR COOLERS                                                                                           |          |         |       |             |              |      | NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED                                                                      |             |                                                                                                                               |          |            |          |
| APPROVED FOR CONSTRUCTION                                                                                                              |          |         |       |             |              |      | BY:                                                                                                                    |             |                                                                                                                               |          |            |          |
| DATE:                                                                                                                                  |          |         |       |             |              |      | DATE:                                                                                                                  |             |                                                                                                                               |          |            |          |
| BUDGET REF.                                                                                                                            |          |         |       |             |              |      | SHEET NO.                                                                                                              |             |                                                                                                                               |          |            |          |
| LOCATION                                                                                                                               |          |         |       |             |              |      | SERIAL NO.                                                                                                             |             |                                                                                                                               |          |            |          |
| SIZE CLASS                                                                                                                             |          |         |       |             |              |      | SHEET REVISION                                                                                                         |             |                                                                                                                               |          |            |          |
| REV.                                                                                                                                   |          |         |       |             |              |      | 6 OF 6                                                                                                                 |             |                                                                                                                               |          |            |          |
| NS                                                                                                                                     |          |         |       |             |              |      | VO2                                                                                                                    |             |                                                                                                                               |          |            |          |
| AS                                                                                                                                     |          |         |       |             |              |      | BK-GCS-AA-120-PR-PI-0001                                                                                               |             |                                                                                                                               |          |            |          |
| 6 OF 6                                                                                                                                 |          |         |       |             |              |      | VO2                                                                                                                    |             |                                                                                                                               |          |            |          |

VENDOR LOGO:  
**AAC**  
Project No: 17208