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|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض و ابنیه تحت الارض<br/>خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک<br/>(قرارداد 03 BK-HD-GCS-CO-0008)</p> |       |          |      |        |            |   |       |                    |
|                                                                                  | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                               |       |          |      |        |            |  |       |                    |
| شماره پیمان:                                                                     | نسخه                                                                                                                                                               | سریال | نوع مدرک | رشته | تهیهات | صادر کننده | بسته کاری                                                                           | پروژه | شماره صفحه: ۱ از ۴ |
| ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                 | V03                                                                                                                                                                | 0001  | LI       | PM   | 120    | HY         | GCS                                                                                 | BK    |                    |

## طرح نگهداشت و افزایش تولید ۲۷ مخزن

### VENDOR PRINT INDEX & SCHEDULE (VPIS)

#### نگهداشت و افزایش تولید میدان نفتی بینک

| Rev.                | Date     | Purpose of Issue / Status | Prepared by: | Checked by: | Approved by: | CLIENT Approval |
|---------------------|----------|---------------------------|--------------|-------------|--------------|-----------------|
| V03                 | AUG.2023 | IFR                       | Havayar Co.  | M.Fakharian | A.M.Mohseni  |                 |
| V02                 | APR.2023 | IFR                       | Havayar Co.  | M.Fakharian | M.Mehrshad   |                 |
| V01                 | MAR.2023 | IFR                       | Havayar Co.  | M.Fakharian | M.Mehrshad   |                 |
| V00                 | JAN.2023 | IFR                       | Havayar Co.  | M.Fakharian | M.Mehrshad   |                 |
| CLIENT Doc. Number: |          |                           |              |             |              |                 |

Status:

IFA Issued For Approval

IFR: Issued For Review

IFI: Issued For Information

AFC: Approved For Construction

|                                                                                                  |                                                                                                                                                                             |             |                  |                  |                |            |                                                                                                                          |               |             |
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| <br><b>NISOC</b> | <p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک</p> <p>(قرارداد BK-HD-GCS-CO-0008_03)</p> |             |                  |                  |                |            | <br><b>HAVAYAR</b><br>INDUSTRIAL GROUP |               |             |
|                                                                                                  | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                                        |             |                  |                  |                |            |                                                                                                                          |               |             |
|                                                                                                  | شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                                                                                               | پروژه<br>BK | بسته کاری<br>GCS | صادر کننده<br>HY | تسهیلات<br>120 | رشته<br>PM | نوع مدرک<br>LI                                                                                                           | سریال<br>0001 | نسخه<br>V03 |

| REVISION RECORD SHEET |     |     |     |     |     |      |     |     |     |     |     |
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|  |                          | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض و ابنیه تحت الارض<br>خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک<br>(قرارداد 03_BK-HD-GCS-CO-0008) |           |            |         |      |         |       |  |                |         |  |
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|                                                                                  |                          | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                     |           |            |         |      |         |       | page 5 of 6                                                                        |                |         |  |
| شماره پیمان: 9184 – 073 - 053                                                    |                          | پروژه                                                                                                                                                    | یسته کاری | صادر کننده | تسهیلات | رشته | وع مدرک | سریال | نسخه                                                                               | شماره صفحه: از |         |  |
|                                                                                  |                          | BK                                                                                                                                                       | GCS       | HY         | 120     | PM   | LI      | 0001  | V03                                                                                |                |         |  |
| S/R No.                                                                          | Doc. No.                 | Document Description                                                                                                                                     |           |            |         |      |         |       | Scope                                                                              | Status         | Remarks |  |
| 1                                                                                | General/ Management      |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 1.1                                                                              | List                     |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 1.1.1                                                                            | BK-GCS-HY-120-PM-LI-0001 | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                     |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.2                                                                            | BK-GCS-HY-120-GE-WB-0001 | WORK BREAKDOWN STRUCTURE                                                                                                                                 |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.3                                                                            | BK-GCS-HY-120-GE-VL-0001 | SUB VENDOR LIST                                                                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.4                                                                            | BK-GCS-HY-120-GE-SH-0001 | TIME SCHEDULE                                                                                                                                            |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.5                                                                            | BK-GCS-HY-120-GE-LI-0002 | SPARE PART LIST                                                                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.6                                                                            | BK-GCS-HY-120-GE-LI-0003 | FINAL DATA BOOK INDEX                                                                                                                                    |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.7                                                                            | BK-GCS-HY-120-GE-LI-0004 | PACKING LIST                                                                                                                                             |           |            |         |      |         |       | NISOC                                                                              | IFA            |         |  |
| 1.1.9                                                                            | BK-GCS-HY-120-GE-WB-0001 | WORK BREAKDOWN STRUCTURE                                                                                                                                 |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.10                                                                           | BK-GCS-HY-120-GE-VL-0001 | SUB VENDOR LIST                                                                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.1.11                                                                           | BK-GCS-HY-120-GE-SH-0001 | TIME SCHEDULE                                                                                                                                            |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.2                                                                              | Drawing/Diagram          |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 1.2.1                                                                            | BK-GCS-HY-120-GE-DW-0001 | NAME PLATE DRAWING                                                                                                                                       |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 1.3                                                                              | Reports                  |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 1.3.1                                                                            | BK-GCS-HY-120-GE-DO-0001 | FINAL DATA BOOK                                                                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFA            |         |  |
| 2                                                                                | QA/QC                    |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 2.1                                                                              | Procedure/Plan           |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 2.1.1                                                                            | BK-GCS-HY-120-QC-PR-0001 | INSPECTION & TEST PLAN (ITP)                                                                                                                             |           |            |         |      |         |       | NISOC                                                                              | IFA            |         |  |
| 2.1.2                                                                            | BK-GCS-HY-120-QC-PR-0002 | W.P.S & P.Q.R                                                                                                                                            |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 2.1.3                                                                            | BK-GCS-HY-120-QC-PR-0003 | SURFACE PREPARATION AND PAINTING PROCEDURE                                                                                                               |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 2.1.4                                                                            | BK-GCS-HY-120-QC-PR-0004 | NDE PROCEDURE                                                                                                                                            |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 2.1.5                                                                            | BK-GCS-HY-120-QC-PR-0005 | HYDROSTATIC/ PNEUMATIC TEST PROCEDURE                                                                                                                    |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 2.1.6                                                                            | BK-GCS-HY-120-QC-PR-0006 | SAT (PERFORMANCE TEST) PROCEDURE                                                                                                                         |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 2.1.7                                                                            | BK-GCS-HY-120-QC-PR-0007 | FAT PROCEDURE                                                                                                                                            |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 2.2                                                                              | Manual                   |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 2.2.1                                                                            | BK-GCS-HY-120-QC-ML-0001 | INSTALLATION, OPERATION & MAINTENANCE MANUAL                                                                                                             |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 3                                                                                | Process                  |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 3.1                                                                              | Calculation              |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 3.1.1                                                                            | BK-GCS-HY-120-PR-CN-0001 | CALCULATION NOTE FOR PSV SIZING                                                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 3.1.2                                                                            | BK-GCS-HY-120-PR-CN-0002 | CALCULATION NOTE FOR CONTROL VALVE SIZING                                                                                                                |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 3.2                                                                              | Philosophy               |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 3.2.1                                                                            | BK-GCS-HY-120-PR-PH-0001 | CONTROL PHILOSOPHY                                                                                                                                       |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 3.3                                                                              | Drawing/Diagram          |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 3.3.1                                                                            | BK-GCS-HY-120-PR-PF-0001 | PFD                                                                                                                                                      |           |            |         |      |         |       | NISOC                                                                              | IFI            |         |  |
| 3.3.2                                                                            | BK-GCS-HY-120-PR-PI-0001 | P&I D                                                                                                                                                    |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 3.4                                                                              | List                     |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 3.4.1                                                                            | BK-GCS-HY-120-PR-LI-0001 | UTILITY CONSUMPTION LIST                                                                                                                                 |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 3.4.2                                                                            | BK-GCS-HY-120-PR-LI-0002 | EQUIPMENT LIST                                                                                                                                           |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 4                                                                                | Mechanical               |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 4.1                                                                              | Drawing/Diagram          |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 4.1.1                                                                            | BK-GCS-HY-120-ME-DW-0001 | COMPRESSOR PACKAGE GENERAL ARRANGEMENT DRAWING                                                                                                           |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 4.1.2                                                                            | BK-GCS-HY-120-ME-DW-0002 | SHAFT COUPLING ASSEMBLY DRAWING AND BILL OF MATERIAL                                                                                                     |           |            |         |      |         |       | NISOC                                                                              | IFI            |         |  |
| 4.1.3                                                                            | BK-GCS-HY-120-ME-DW-0003 | CROSS SECTIONAL DRAWING                                                                                                                                  |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 4.2                                                                              | Datasheet                |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 4.2.1                                                                            | BK-GCS-HY-120-ME-DS-0001 | DETAILED D/SH FOR COMPRESSOR (API-618) WITH CERTIFICATES                                                                                                 |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5                                                                                | Instrument               |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 5.1                                                                              | Datasheet                |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 5.1.1                                                                            | BK-GCS-HY-120-IN-DS-0001 | INSTRUMENT DATASHEETS / CERTIFICATES                                                                                                                     |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.1.2                                                                            | BK-GCS-HY-120-IN-DS-0002 | DATASHEET FOR CONTROL/REGULATOR VALVES                                                                                                                   |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.1.3                                                                            | BK-GCS-HY-120-IN-DS-0003 | DATASHEET FOR ON/OFF VALVES (IF ANY)                                                                                                                     |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
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| 5.1.5                                                                            | BK-GCS-HY-120-IN-DS-0005 | CONTROL PANEL PARTS DATA SHEET/LICENCE LIST/ CERTIFICATES                                                                                                |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.2                                                                              | List                     |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 5.2.1                                                                            | BK-GCS-HY-120-IN-LI-0001 | CAUSE & EFFECT CHARTS LIST                                                                                                                               |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.2.2                                                                            | BK-GCS-HY-120-IN-LI-0002 | INSTRUMENT/F&G LIST                                                                                                                                      |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.2.3                                                                            | BK-GCS-HY-120-IN-LI-0003 | INSTRUMENT CABLE LIST                                                                                                                                    |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.2.4                                                                            | BK-GCS-HY-120-IN-LI-0004 | ALARM & SET POINT LIST                                                                                                                                   |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.2.5                                                                            | BK-GCS-HY-120-IN-LI-0005 | I/O List                                                                                                                                                 |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3                                                                              | Drawing/Diagram          |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 5.3.1                                                                            | BK-GCS-HY-120-IN-DW-0001 | HMI AND GRAPHICS PRINTOUT                                                                                                                                |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.2                                                                            | BK-GCS-HY-120-IN-DW-0002 | CONTROL SYSTEM CABINETS AND CONSOLES LAYOUT DRAWING                                                                                                      |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.3                                                                            | BK-GCS-HY-120-IN-DW-0003 | JB TERMINATION DRAWING                                                                                                                                   |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
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| 5.3.5                                                                            | BK-GCS-HY-120-IN-DW-0005 | CP CONTROL AND SAFETY LOOP DIAGRAM                                                                                                                       |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |

|     |                          | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض و ابنیه تحت الارض<br>خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک<br>(قرارداد 03_BK-HD-GCS-CO-0008) |           |            |         |      |         |       |  |                |         |  |
|-------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|------|---------|-------|------------------------------------------------------------------------------------|----------------|---------|--|
|                                                                                     |                          | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                     |           |            |         |      |         |       |                                                                                    |                |         |  |
| شماره پیمان:                                                                        |                          | پروژه                                                                                                                                                    | یسته کاری | صادر کننده | تسهیلات | رشته | وع مدرک | سریال | نسخه                                                                               | شماره صفحه: از |         |  |
| 9184 – 073 - 053                                                                    |                          | BK                                                                                                                                                       | GCS       | HY         | 120     | PM   | LI      | 0001  | V03                                                                                |                |         |  |
| S/R No.                                                                             | Doc. No.                 | Document Description                                                                                                                                     |           |            |         |      |         |       | Scope                                                                              | Status         | Remarks |  |
| 5.3.6                                                                               | BK-GCS-HY-120-IN-DW-0006 | UCP CONTROL AND SAFETY LOGIC DIAGRAM                                                                                                                     |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.7                                                                               | BK-GCS-HY-120-IN-DW-0007 | HOOK UP DRAWING                                                                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.8                                                                               | BK-GCS-HY-120-IN-DG-0001 | PLC WIRING DIAGRAM & TERMINAL DETAILS                                                                                                                    |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.9                                                                               | BK-GCS-HY-120-IN-DG-0002 | OVERAL CONTROL/SAFETY SYSTEM CONFIGURATION DIAGRAM                                                                                                       |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.10                                                                              | BK-GCS-HY-120-IN-PY-0001 | LCP AND GAUGE BOARD LAYOUT                                                                                                                               |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.3.11                                                                              | BK-GCS-HY-120-IN-PY-0002 | INSTRUMENT CABLE ROUTE/ MAIN TUBING LAYOUT DRAWING                                                                                                       |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.4                                                                                 | Procedure/Plan           |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 5.4.1                                                                               | BK-GCS-HY-120-IN-PR-0001 | SAT (PERFORMANCE TEST) PROCEDURE FOR CONTROL SYSTEM                                                                                                      |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 5.4.2                                                                               | BK-GCS-HY-120-IN-PR-0002 | FAT PROCEDURE FOR CONTROL SYSTEM                                                                                                                         |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 6                                                                                   | Electrical               |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 6.1                                                                                 | Datasheet                |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 6.1.1                                                                               | BK-GCS-HY-120-EL-DS-0001 | D/SH (W/CURVE, DRAWING & CERTIFICATE) FOR COMPRESSOR MAIN MOTOR                                                                                          |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 6.1.2                                                                               | BK-GCS-HY-120-EL-DS-0002 | DATASHEET (W/DRAWING) FOR AUXILIARY MOTORS                                                                                                               |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| 6.2                                                                                 | Drawing/Diagram          |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 6.2.1                                                                               | BK-GCS-HY-120-EL-DW-0001 | ELECTRICAL WIRING DIAGRAM AND CABLE LIST                                                                                                                 |           |            |         |      |         |       | NISOC                                                                              | IFI            |         |  |
| 6.3                                                                                 | List                     |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |
| 6.3.1                                                                               | BK-GCS-HY-120-EL-LI-0001 | ELECTRICAL/UPS CONSUMPTION LOAD LIST                                                                                                                     |           |            |         |      |         |       | NISOC                                                                              | IFR            |         |  |
| Notes:<br>1 : Final Status of documents with status of "IFR" & "IFA" will be "AFC". |                          |                                                                                                                                                          |           |            |         |      |         |       |                                                                                    |                |         |  |