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|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|--------|------|----------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
|  | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض و ابنیه تحت الارض<br>خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک<br>(قرارداد BK-HD-GCS-CO-0023_00) |           |           |        |      |          |       |   |                    |
|                                                                                  | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                                 |           |           |        |      |          |       |                                                                                                                                                                       |                    |
| شماره پیمان:                                                                     | پروژه                                                                                                                                                                | بسته کاری | صادرکننده | تهیهات | رشته | نوع مدرک | سریال | نسخه                                                                                                                                                                  | شماره صفحه: ۱ از ۴ |
| ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                 | BK                                                                                                                                                                   | GCS       | KP        | 120    | PM   | LI       | 0001  | V01                                                                                                                                                                   |                    |

## طرح نگهداشت و افزایش تولید ۲۷ مخزن

### VENDOR PRINT INDEX & SCHEDULE (VPIS)

#### نگهداشت و افزایش تولید میدان نفتی بینک

| V01  | DEC.2024 | AFC                       | Kalaye Pump Co. | M.Fakharian | M.Sadeghian     |                 |
|------|----------|---------------------------|-----------------|-------------|-----------------|-----------------|
| V00  | MAR.2024 | IFA                       | Kalaye Pump Co. | M.Fakharian | S.Faramarz Pour |                 |
| Rev. | Date     | Purpose of Issue / Status | Prepared by:    | Checked by: | Approved by:    | CLIENT Approval |
|      |          |                           |                 |             |                 |                 |

status:

IFA: Issued For Approval

IFI: Issued For Information

AFC: Approved For Construction

|                                                                                  |                                                                                                                                                                                      |                  |                  |                |            |                |               |                                                                                    |                    |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------|----------------|------------|----------------|---------------|------------------------------------------------------------------------------------|--------------------|
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>سطح الارض و ابنیه تحت الارض</p> <p>خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک<br/>(قرارداد BK-HD-GCS-CO-0023_00)</p> |                  |                  |                |            |                |               |  |                    |
|                                                                                  | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                                                 |                  |                  |                |            |                |               |                                                                                    |                    |
| شماره پیمان:<br>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>V01                                                                        | شماره صفحه: ۲ از ۴ |

| REVISION RECORD SHEET |     |     |     |     |     |      |     |     |     |     |     |
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| 25                    |     |     |     |     |     | 89   |     |     |     |     |     |
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| 28                    |     |     |     |     |     | 92   |     |     |     |     |     |
| 29                    |     |     |     |     |     | 93   |     |     |     |     |     |
| 30                    |     |     |     |     |     | 94   |     |     |     |     |     |
| 31                    |     |     |     |     |     | 95   |     |     |     |     |     |
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| 33                    |     |     |     |     |     | 97   |     |     |     |     |     |
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| 35                    |     |     |     |     |     | 99   |     |     |     |     |     |
| 36                    |     |     |     |     |     | 100  |     |     |     |     |     |
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|  |                          | <div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض و ابنیه تحت الارض</div> <div>خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک</div> <div>(قرارداد BK-HD-GCS-CO-0023_00)</div> <div>VENDOR PRINT INDEX &amp; SCHEDULE (VPIS)</div> |           |            |         |      |          |       |  |                  |  |
|----------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|------|----------|-------|------------------------------------------------------------------------------------|------------------|--|
| شماره پیمان:<br>9184 – 073 - 053                                                 |                          | پروژه                                                                                                                                                                                                                                                       | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه                                                                               | شماره صفحه: از ۴ |  |
|                                                                                  |                          | BK                                                                                                                                                                                                                                                          | GCS       | KP         | 120     | PM   | LI       | 0001  | V01                                                                                |                  |  |
| S/R No.                                                                          | Doc. No.                 | Document Description                                                                                                                                                                                                                                        |           |            |         |      |          |       | Status                                                                             | Remarks          |  |
| 1                                                                                | General/ Management      |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 1.1                                                                              | List                     |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 1.1.1                                                                            | BK-GCS-KP-120-PM-LI-0001 | VENDOR PRINT INDEX & SCHEDULE (VPIS)                                                                                                                                                                                                                        |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.1.2                                                                            | BK-GCS-KP-120-GE-WB-0001 | WORK BREAKDOWN STRUCTURE                                                                                                                                                                                                                                    |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.1.3                                                                            | BK-GCS-KP-120-GE-VL-0001 | SUB VENDOR LIST                                                                                                                                                                                                                                             |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.1.4                                                                            | BK-GCS-KP-120-GE-SH-0001 | TIME SCHEDULE                                                                                                                                                                                                                                               |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 1.1.5                                                                            | BK-GCS-KP-120-GE-LI-0001 | SPARE PART LIST                                                                                                                                                                                                                                             |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.1.6                                                                            | BK-GCS-KP-120-GE-LI-0002 | FINAL DATA BOOK INDEX                                                                                                                                                                                                                                       |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.2                                                                              | DWG/Diagram              |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 1.2.1                                                                            | BK-GCS-KP-120-GE-DW-0001 | NAME PLATE DWGS                                                                                                                                                                                                                                             |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.3                                                                              | Reports                  |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 1.3.1                                                                            | BK-GCS-KP-120-GE-DO-0001 | FINAL DATA BOOK                                                                                                                                                                                                                                             |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 1.4                                                                              | Manual                   |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 1.4.1                                                                            | BK-GCS-KP-120-GE-ML-0001 | INSTALLATION, OPERATION & MAINTENANCE MANUAL                                                                                                                                                                                                                |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 2                                                                                | QA/QC                    |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 2.1                                                                              | Procedure/Plan           |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 2.1.1                                                                            | BK-GCS-KP-120-QC-PR-0001 | INSPECTION & TEST PLAN (ITP)                                                                                                                                                                                                                                |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.2                                                                            | BK-GCS-KP-120-QC-PR-0002 | SURFACE PREPARATION AND PAINTING PROCEDURE                                                                                                                                                                                                                  |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.3                                                                            | BK-GCS-KP-120-QC-PR-0003 | NDE PROCEDURE                                                                                                                                                                                                                                               |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.6                                                                            | BK-GCS-KP-120-QC-PR-0004 | BALANCE PROCEDURE (FOR IMPELLERS)                                                                                                                                                                                                                           |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.4                                                                            | BK-GCS-KP-120-QC-PR-0005 | HYDROSTATIC TEST PROCEDURE                                                                                                                                                                                                                                  |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.5                                                                            | BK-GCS-KP-120-QC-PR-0006 | MECHANICAL RUNNING TEST PROCEDURE                                                                                                                                                                                                                           |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.5                                                                            | BK-GCS-KP-120-QC-PR-0007 | PERFORMANCE TEST PROCEDURE                                                                                                                                                                                                                                  |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.8                                                                            | BK-GCS-KP-120-QC-PR-0008 | PACKING, MARKING AND SHIPPING PROCEDURE FOR FIRE WATER PUMPS                                                                                                                                                                                                |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 2.1.9                                                                            | BK-GCS-KP-120-QC-PR-0009 | SAT PROCEDURE                                                                                                                                                                                                                                               |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 3                                                                                | Process/Safety           |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 3.1                                                                              | Philosophy               |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 3.1.1                                                                            | BK-GCS-KP-120-PR-PH-0001 | CONTROL PHILOSOPHY                                                                                                                                                                                                                                          |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 3.2                                                                              | DWG/Diagram              |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 3.2.1                                                                            | BK-GCS-KP-120-PR-PI-0001 | P&I D                                                                                                                                                                                                                                                       |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4                                                                                | Mechanical               |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 4.2                                                                              | Datasheet                |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 4.2.1                                                                            | BK-GCS-KP-120-ME-DS-0001 | DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN DIESEL PUMP                                                                                                                                                                                           |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.2.2                                                                            | BK-GCS-KP-120-ME-DS-0002 | DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER MAIN ELECTRICAL PUMP                                                                                                                                                                                       |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.2.3                                                                            | BK-GCS-KP-120-ME-DS-0003 | DATA SHEETS (W/PERFORMANCE CURVE) FOR FIRE WATER JOCKEY PUMPS                                                                                                                                                                                               |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.2.5                                                                            | BK-GCS-KP-120-ME-DS-0004 | DATA SHEETS FOR DIESEL ENGINE                                                                                                                                                                                                                               |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.1                                                                              | DWG/Diagram              |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 4.1.1                                                                            | BK-GCS-KP-120-ME-DW-0001 | GAD FOR FIRE WATER MAIN DIESEL PUMPS                                                                                                                                                                                                                        |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.1.2                                                                            | BK-GCS-KP-120-ME-DW-0002 | GAD FOR FIRE WATER MAIN ELECTRICAL PUMP                                                                                                                                                                                                                     |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.1.3                                                                            | BK-GCS-KP-120-ME-DW-0003 | GAD FOR FIRE WATER JOCKEY PUMPS                                                                                                                                                                                                                             |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.1.4                                                                            | BK-GCS-KP-120-ME-DW-0004 | GAD FOR DAILY TANK                                                                                                                                                                                                                                          |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 4.1.5                                                                            | BK-GCS-KP-120-ME-DW-0005 | CROSS SECTIONAL DWG FOR FIRE WATER MAIN DIESEL PUMP                                                                                                                                                                                                         |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 4.1.6                                                                            | BK-GCS-KP-120-ME-DW-0006 | CROSS SECTIONAL DWG FOR FIRE WATER MAIN ELECTRICAL PUMP                                                                                                                                                                                                     |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 4.1.7                                                                            | BK-GCS-KP-120-ME-DW-0007 | CROSS SECTIONAL DWG FOR FIRE WATER JOCKEY PUMPS                                                                                                                                                                                                             |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 4.1.8                                                                            | BK-GCS-KP-120-ME-DW-0008 | COUPLING ASSEMBLY DWG FOR FIRE WATER MAIN DIESEL PUMP                                                                                                                                                                                                       |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 4.1.9                                                                            | BK-GCS-KP-120-ME-DW-0009 | COUPLING ASSEMBLY DWG FOR FIRE WATER MAIN ELECTRICAL PUMP                                                                                                                                                                                                   |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 4.1.10                                                                           | BK-GCS-KP-120-ME-DW-0010 | COUPLING ASSEMBLY DWG FOR FIRE WATER JOCKEY PUMPS                                                                                                                                                                                                           |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 4.1.20                                                                           | BK-GCS-KP-120-ME-DW-0011 | DWG FOR MECHANICAL SEAL                                                                                                                                                                                                                                     |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 5                                                                                | Instrument               |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 5.1                                                                              | Datasheet                |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 5.1.1                                                                            | BK-GCS-KP-120-ME-DS-0001 | AUTOMATIC AIR RELEASE VALVE DATA SHEET & CATALOGUE                                                                                                                                                                                                          |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 5.1.2                                                                            | BK-GCS-KP-120-ME-DS-0002 | PRESSURE RELIEF VALVE DATA SHEET & DWG                                                                                                                                                                                                                      |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 5.1.3                                                                            | BK-GCS-KP-120-ME-DS-0003 | CIRCULATION RELIEF VALVE DATA SHEET & DWG                                                                                                                                                                                                                   |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 5.2                                                                              | List                     |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 5.2.1                                                                            | BK-GCS-KP-120-IN-LI-0001 | INSTRUMENT LIST                                                                                                                                                                                                                                             |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 5.2.2                                                                            | BK-GCS-KP-120-IN-LI-0002 | I/O LIST                                                                                                                                                                                                                                                    |           |            |         |      |          |       | IFI                                                                                |                  |  |
| 5.3                                                                              | DWG/Diagram              |                                                                                                                                                                                                                                                             |           |            |         |      |          |       |                                                                                    |                  |  |
| 5.3.1                                                                            | BK-GCS-KP-120-IN-DW-0001 | GAD & WIRING DIAGRAM FOR DIESEL CONTROL PANEL                                                                                                                                                                                                               |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |
| 5.3.2                                                                            | BK-GCS-KP-120-IN-DW-0002 | GAD & WIRING DIAGRAM FOR ELECTRICAL CONTROL PANEL                                                                                                                                                                                                           |           |            |         |      |          |       | IFA/AFC                                                                            |                  |  |

|  |                          | <div>نگهداشت و افزایش تولید میدان نفتی بینک</div> <div>سطح الارض و ابنیه تحت الارض</div> <div>خرید پکیج پمپ های آب آتشنشانی ایستگاه تقویت فشار گاز بینک</div> <div>(قرارداد BK-HD-GCS-CO-0023_00)</div> <div>VENDOR PRINT INDEX &amp; SCHEDULE (VPIS)</div> |       |          |      |         |            |           |  |                  |
|----------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|------|---------|------------|-----------|------------------------------------------------------------------------------------|------------------|
| شماره پیمان:<br>9184 – 073 - 053                                                 |                          | نسخه                                                                                                                                                                                                                                                        | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه                                                                              | شماره صفحه: از ۴ |
|                                                                                  |                          | V01                                                                                                                                                                                                                                                         | 0001  | LI       | PM   | 120     | KP         | GCS       | BK                                                                                 |                  |
| S/R No.                                                                          | Doc. No.                 | Document Description                                                                                                                                                                                                                                        |       |          |      |         |            |           | Status                                                                             | Remarks          |
| 5.3.3                                                                            | BK-GCS-KP-120-IN-DW-0003 | GAD & WIRING DIAGRAM FOR JOCKEY CONTROL PANEL                                                                                                                                                                                                               |       |          |      |         |            |           | IFA/AFC                                                                            |                  |
| 5.3.4                                                                            | BK-GCS-KP-120-IN-DW-0004 | HOOK-UP DIAGRAM FOR FIRE WATER PUMPS                                                                                                                                                                                                                        |       |          |      |         |            |           | IFI                                                                                |                  |
| 6                                                                                | Electrical               |                                                                                                                                                                                                                                                             |       |          |      |         |            |           |                                                                                    |                  |
| 6.1                                                                              | Datasheet                |                                                                                                                                                                                                                                                             |       |          |      |         |            |           |                                                                                    |                  |
| 6.1.1                                                                            | BK-GCS-KP-120-EL-DS-0001 | MOTOR DATA SHEET FOR FIRE WATER MAIN ELECTRICAL PUMP                                                                                                                                                                                                        |       |          |      |         |            |           | IFA/AFC                                                                            |                  |
| 6.1.2                                                                            | BK-GCS-KP-120-EL-DS-0002 | MOTOR DATA SHEET FOR FIRE WATER MAIN JOCKEY PUMPS                                                                                                                                                                                                           |       |          |      |         |            |           | IFA/AFC                                                                            |                  |
| 6.2                                                                              | DWG/Diagram              |                                                                                                                                                                                                                                                             |       |          |      |         |            |           |                                                                                    |                  |
| 6.2.1                                                                            | BK-GCS-KP-120-EL-DW-0001 | ELECTRICAL WIRING DIAGRAM                                                                                                                                                                                                                                   |       |          |      |         |            |           | IFI                                                                                |                  |
| 6.3                                                                              | List                     |                                                                                                                                                                                                                                                             |       |          |      |         |            |           |                                                                                    |                  |
| 6.3.1                                                                            | BK-GCS-KP-120-EL-LI-0001 | ELECTRICAL LOAD LIST                                                                                                                                                                                                                                        |       |          |      |         |            |           | IFA/AFC                                                                            |                  |
| 6.3.2                                                                            | BK-GCS-KP-120-EL-LI-0002 | ELECTRICAL CABLE LIST                                                                                                                                                                                                                                       |       |          |      |         |            |           | IFI                                                                                |                  |