

|                                                                                                                                    |                                                                                 |                           |              |             |                |                 |                                                                                     |                     |
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|                                                   | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض و ابنیه تحت الارض           |                           |              |             |                |                 |  |                     |
|                                                                                                                                    | خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک<br>(قرارداد BK-HD-GCS-CO-0008_03) |                           |              |             |                |                 |                                                                                     |                     |
| شماره پیمان:<br><br>053 - 073 - 9184                                                                                               | INSTRUMENT CABLE LIST                                                           |                           |              |             |                |                 |                                                                                     | شماره صفحه: 1 از 11 |
|                                                                                                                                    | نسخه                                                                            | سریال                     | نوع مدرک     | رشته        | تسهیلات        | صادرکننده       | پسته کاری                                                                           |                     |
|                                                                                                                                    | V08                                                                             | 0003                      | LI           | IN          | 120            | HY              | GCS                                                                                 |                     |
| BK                                                                                                                                 |                                                                                 |                           |              |             |                |                 | پروژه                                                                               |                     |
| <p style="text-align: center;">طرح نگهداشت و افزایش تولید ۲۷ مخزن</p>                                                              |                                                                                 |                           |              |             |                |                 |                                                                                     |                     |
| <p style="text-align: center;">INSTRUMENT CABLE LIST</p> <p style="text-align: center;">نگهداشت و افزایش تولید میدان نفتی بینک</p> |                                                                                 |                           |              |             |                |                 |                                                                                     |                     |
| V08                                                                                                                                | Jan.2025                                                                        | AFC                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| V07                                                                                                                                | NOV.2024                                                                        | AFC                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| V06                                                                                                                                | Agus.2024                                                                       | AFC                       | Havayar Co.  | M.Fakharian | M.SADEGHIAN    |                 |                                                                                     |                     |
| V05                                                                                                                                | Jun.2024                                                                        | AFC                       | Havayar Co.  | M.Fakharian | M.SADEGHIAN    |                 |                                                                                     |                     |
| V04                                                                                                                                | Apr.2024                                                                        | AFC                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| V03                                                                                                                                | Feb.2024                                                                        | AFC                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| V02                                                                                                                                | NOV.2023                                                                        | AFC                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| V01                                                                                                                                | OCT.2023                                                                        | AFC                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| V00                                                                                                                                | SEP.2023                                                                        | IFR                       | Havayar Co.  | M.Fakharian | S.Faramarzpour |                 |                                                                                     |                     |
| Rev.                                                                                                                               | Date                                                                            | Purpose of Issue / Status | Prepared by: | Checked by: | Approved by:   | CLIENT Approval |                                                                                     |                     |
|                                                                                                                                    |                                                                                 | CLIENT Doc. Number:       |              |             |                |                 |                                                                                     |                     |
| status:<br>IFA: Issued For Approval<br>IFR: Issued For Review<br>IFI: Issued For Information<br>AFC: Approved For Construction     |                                                                                 |                           |              |             |                |                 |                                                                                     |                     |

|                                                                                            |                                                                                 |           |           |         |      |          |                                                                                                                    |  |       |      |
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| <br>NISOC | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض و ابنیه تحت الارض           |           |           |         |      |          | <br>HAVAYAR<br>INDUSTRIAL GROUP |  |       |      |
|                                                                                            | خرید پکیج های کمپرسور گاز (رفت و برگشتی) بینک<br>(قرارداد BK-HD-GCS-CO-0008_03) |           |           |         |      |          |                                                                                                                    |  |       |      |
| شماره پیمان:<br><br><b>053 - 073 - 9184</b>                                                | <b>INSTRUMENT CABLE LIST</b>                                                    |           |           |         |      |          | شماره صفحه: 2 از 11                                                                                                |  |       |      |
|                                                                                            | پروژه                                                                           | بسته کاری | صادرکننده | تسهیلات | رشته | نوع مدرک |                                                                                                                    |  | سریال | نسخه |
|                                                                                            | BK                                                                              | GCS       | HY        | 120     | IN   | LI       |                                                                                                                    |  | 0003  | V08  |

  

| REVISION RECORD SHEET |     |     |     |     |     |      |     |     |     |     |
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| 6                     | X   | X   | X   | X   | X   | 6    | X   | X   | X   | X   |
| 7                     | X   | X   | X   | X   | X   | 7    | X   | X   | X   | X   |
| 8                     | X   | X   | X   | X   | X   | 8    | X   | X   | X   | X   |
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|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
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| <div></div> <div>NISOC</div> |                  | <div>نگهداشت و افزایش تولید نفتی بینک<br/>سطح الارض و انبیه تحت الارض</div> <div>خرید پکیج های مهرسور گاز (رفت و برگشتی) بینک<br/>(قرارداد 03_4008-BK-HD-GCS-C-O)</div> |                           |                        |                                                                   |                      |                  | <div></div> <div>HAVAYAR<br/>INDUSTRIAL GROUP</div> |        |                                                   |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| شماره پیمان:                                                                                                  |                  | INSTRUMENT CABLE LIST                                                                                                                                                   |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 053 - 073 – 9184                                                                                              |                  | پروژه                                                                                                                                                                   | بسته کاری                 | مسارکننده              | تسهیلات                                                           | رشته                 | نوع مدرک         | سریال                                                                                                                                  | نسخه   | شماره صفحه: 3 از 11                               |  |
|                                                                                                               |                  | BK                                                                                                                                                                      | GCS                       | HY                     | 120                                                               | IN                   | L1               | 0003                                                                                                                                   | V08    |                                                   |  |
| Item No.                                                                                                      | Cable Tag No.    | From                                                                                                                                                                    | To                        | Cable size             | Description                                                       | Color                | Cable Length (m) | Gland                                                                                                                                  | IS/NIS | Remark                                            |  |
| 1                                                                                                             | IC-C-PSOV-2201A  | C-JBU-S-2101A                                                                                                                                                           | C-PSOV-2201A              | 1x2x2.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 2                                                                                                             | IC-C-PSOV-2202A  |                                                                                                                                                                         | C-PSOV-2202A              | 1x2x2.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 3                                                                                                             | IC-C-PSOV-2203A  |                                                                                                                                                                         | C-PSOV-2203A              | 1x2x2.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 4                                                                                                             | IC-C-PSOV-2204A  |                                                                                                                                                                         | C-PSOV-2204A              | 1x2x2.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 5                                                                                                             | IC-C-PSOV-2205A  |                                                                                                                                                                         | C-PSOV-2205A              | 1x2x2.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 6                                                                                                             | MC-C-JBU-S-2101A | UCP-2101A                                                                                                                                                               | C-JBU-S-2101A             | 7x2x2.5mm <sup>3</sup> | CJ,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FIRE RESISTANT | Gray Red Strip       | 330              | M40                                                                                                                                    | NIS    | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 7                                                                                                             | IC-PSOV-2123A    | PSOV-2123A                                                                                                                                                              | UCP-2101A                 | 1x2x2.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 350              | M20-O                                                                                                                                  | NIS    | Out of Havayar scope of work (By Hiran)<br>Direct |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 8                                                                                                             | IC-C-TS-2191A    | C-TS-2191A                                                                                                                                                              | C-JBU-D-2101A             | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 9                                                                                                             | IC-C-TS-2194A    | C-TS-2194A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 10                                                                                                            | IC-C-PS-2133A    | C-PS-2133A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 11                                                                                                            | IC-C-PS-2204A    | C-PS-2204A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 12                                                                                                            | IC-C-PS-2220A    | C-PS-2220A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Gray Red Strip       | 10               | M20-O                                                                                                                                  | NIS    | Supply by Havayar                                 |  |
| 13                                                                                                            | MC-C-JBU-D-2101A | C-JBU-D-2101A                                                                                                                                                           | UCP-2101A                 | 7x2x1mm <sup>2</sup>   | CJ,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FIRE RESISTANT | Gray Red Strip       | 330              | M32                                                                                                                                    | NIS    | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 14                                                                                                            | IC-VS-2205A      | VS-2205A                                                                                                                                                                | C-JBU-D-2102A             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 15               | M20-O                                                                                                                                  | NIS    | Supply by Havayar<br>Loose Item                   |  |
| 15                                                                                                            | IC-VS-2206A      | VS-2206A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 15               | M20-O                                                                                                                                  | NIS    | Supply by Havayar<br>Loose Item                   |  |
| 16                                                                                                            | IC-VS-2207A      | VS-2207A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 15               | M20-O                                                                                                                                  | NIS    | Supply by Havayar<br>Loose Item                   |  |
| 17                                                                                                            | IC-VS-2208A      | VS-2208A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 15               | M20-O                                                                                                                                  | NIS    | Supply by Havayar<br>Loose Item                   |  |
| 18                                                                                                            | IC-C-XZSO-2225A  | C-XZSO-2225A                                                                                                                                                            |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 15               | M20-O                                                                                                                                  | NIS    | Supply by Havayar<br>Loose Item                   |  |
| 19                                                                                                            | MC-C-JBU-D-2102A | C-JBU-D-2102A                                                                                                                                                           | UCP-2101A                 | 7x2x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray                 | 330              | M32                                                                                                                                    | NIS    | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 20                                                                                                            | IC-XZSO-2123A    | XZSO-2123A                                                                                                                                                              | JBU-D-2103A<br>(Hiran JB) | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 30               | M20-O                                                                                                                                  | NIS    | Out of Havayar scope of work (By Hiran)           |  |
| 21                                                                                                            | IC-XZSO-2123A    | XZSO-2123A                                                                                                                                                              | JBU-D-2103A<br>(Hiran JB) | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray                 | 30               | M20-O                                                                                                                                  | NIS    | Out of Havayar scope of work (By Hiran)           |  |
| 22                                                                                                            | MC-JBU-D-2103A   | C-JBU-D-2103A                                                                                                                                                           | UCP-2101A                 | 7x2x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray                 | 330              | M32                                                                                                                                    | NIS    | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 23                                                                                                            | IC-TT-2121A      | TT-2121A                                                                                                                                                                | JBU-A-2101<br>(Hiran JB)  | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 24                                                                                                            | IC-TT-2122A      | TT-2122A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 25                                                                                                            | IC-PDT-2122A     | PDT-2122A                                                                                                                                                               |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 26                                                                                                            | IC-PT-2123A      | PT-2123A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 27                                                                                                            | IC-TT-2123A      | TT-2123A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 28                                                                                                            | IC-PT-2124A      | PT-2124A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 29                                                                                                            | IC-FT-2131A      | FT-2131A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 30                                                                                                            | IC-TT-2132A      | TT-2132A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 31                                                                                                            | IC-PT-2132A      | PT-2132A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 32                                                                                                            | IC-PDT-2132A     | PDT-2132A                                                                                                                                                               |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 33                                                                                                            | IC-TT-2133A      | TT-2133A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 34                                                                                                            | IC-PT-2133A      | PT-2133A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 35                                                                                                            | IC-PV-2123A      | PV-2123A                                                                                                                                                                |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 36                                                                                                            | IC-PVZ-2123A     | PVZ-2123A                                                                                                                                                               |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 30               | M20-O                                                                                                                                  | IS     | Out of Havayar scope of work (By Hiran)<br>Direct |  |
| 37                                                                                                            | MC-JBU-A-2101    | JBU-A-2101                                                                                                                                                              | UCP-2101A                 | 19x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Light Blue           | 380              | M50                                                                                                                                    | IS     | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 38                                                                                                            | IC-C-TE-2214A    | C-TE-2214A                                                                                                                                                              | C-TT-2214A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 39                                                                                                            | IC-C-TE-2215A    | C-TE-2215A                                                                                                                                                              | C-TT-2215A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 40                                                                                                            | IC-C-TE-2216A    | C-TE-2216A                                                                                                                                                              | C-TT-2216A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 41                                                                                                            | IC-C-TE-2217A    | C-TE-2217A                                                                                                                                                              | C-TT-2217A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 42                                                                                                            | IC-C-TE-2218A    | C-TE-2218A                                                                                                                                                              | C-TT-2218A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 43                                                                                                            | IC-C-TE-2219A    | C-TE-2219A                                                                                                                                                              | C-TT-2219A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 44                                                                                                            | IC-C-TE-2220A    | C-TE-2220A                                                                                                                                                              | C-TT-2220A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | ...              | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 45                                                                                                            | IC-C-TE-2221A    | C-TE-2220A                                                                                                                                                              | C-TT-2220A                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                 | Light Blue Red Strip | ...              | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 46                                                                                                            | IC-C-TT-2203A    | C-TT-2203A                                                                                                                                                              | C-JBU-A-2101A             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 47                                                                                                            | IC-C-TT-2213A    | C-TT-2213A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 20               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 48                                                                                                            | IC-C-PT-2204A    | C-PT-2204A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 49                                                                                                            | IC-C-PT-2220A    | C-PT-2220A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 20               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 50                                                                                                            | IC-C-LT-2213A    | C-LT-2213A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 20               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 51                                                                                                            | IC-C-TT-2191A    | C-TT-2191A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 52                                                                                                            | IC-C-TT-2194A    | C-TT-2194A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 20               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 53                                                                                                            | IC-C-TT-2231A    | C-TT-2231A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 54                                                                                                            | MC-C-JBU-A-2101A | C-JBU-A-2101A                                                                                                                                                           | UCP-2101A                 | 12x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Light Blue           | 330              | M40                                                                                                                                    | IS     | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 55                                                                                                            | IC-C-PT-2201A    | C-PT-2201A                                                                                                                                                              | C-JBU-A-2104A             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 56                                                                                                            | IC-C-PT-2210A    | C-PT-2210A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 57                                                                                                            | IC-C-PT-2211A    | C-PT-2211A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 58                                                                                                            | IC-C-PT-2212A    | C-PT-2212A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 59                                                                                                            | IC-C-PT-2200A    | C-PT-2200A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 60                                                                                                            | IC-C-LT-2200A    | C-LT-2200A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 61                                                                                                            | IC-C-FT-2206A    | C-FT-2206A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 62                                                                                                            | IC-C-TT-2204A    | C-TT-2204A                                                                                                                                                              |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 63                                                                                                            | IC-C-PDT-2204A   | C-PDT-2204A                                                                                                                                                             |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                    | Light Blue           | 10               | M20-O                                                                                                                                  | IS     | Supply by Havayar                                 |  |
| 64                                                                                                            | MC-C-JBU-A-2104A | C-JBU-A-2104A                                                                                                                                                           | UCP-2101A                 | 12x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Light Blue           | 330              | M40                                                                                                                                    | IS     | Out of Havayar scope of work (By Hiran)           |  |
|                                                                                                               |                  |                                                                                                                                                                         |                           |                        |                                                                   |                      |                  |                                                                                                                                        |        |                                                   |  |
| 65                                                                                                            | IC-C-ZE-2200A    | C-ZE-2200A                                                                                                                                                              | C-JBU-A-2102A             | Special cable          |                                                                   | N/A                  | 8                | M20-O                                                                                                                                  | N/A    | Supply by Havayar                                 |  |
| 66                                                                                                            | IC-C-ZE-2201A    | C-ZE-2201A                                                                                                                                                              |                           | Special cable          |                                                                   | N/A                  | 8                | M20-O                                                                                                                                  | N/A    | Supply by Havayar                                 |  |
| 67                                                                                                            | IC-C-XE-2200A    | C-XE-2200A                                                                                                                                                              |                           | Special cable          |                                                                   | N/A                  | 8.5              | M20-O                                                                                                                                  | N/A    | Supply by Havayar                                 |  |
| 68                                                                                                            | MC-C-JBU-A-2102A | C-JBU-A-2102A                                                                                                                                                           | UCP-2101A                 | 7x3x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Light Blue           | 330              | M40                                                                                                                                    | IS     | Out of Havayar scope of work (By Hiran)           |  |



|                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                  |                                                             |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
|---------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------|-------------------------------------------------------------------|----------------|------------------|-------|---------------------|-------------------------------------------------------|--|--|-----------------------|-------|----------|------|---------|-----------|-----------|
| <div></div> <div>NISOC</div> |                | <div><div><div></div><div>HAVAYAR</div><div>INDUSTRIAL GROUP</div></div></div> <div>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض و ابنيه تحت الارض</div> <div>خرید پکیج های کمپرسور گاز (رقت و برگشتی) بینک<br/>(فراریداد BK-HD-GCS-CO-0008_03)</div> |                                                             |                        |                                                                   |                |                  |       | شماره صفحه: 5 از 11 |                                                       |  |  |                       |       |          |      |         |           |           |
|                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                  |                                                             |                        |                                                                   |                |                  |       |                     |                                                       |  |  | INSTRUMENT CABLE LIST |       |          |      |         |           |           |
|                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                  |                                                             |                        |                                                                   |                |                  |       |                     |                                                       |  |  | نسخه                  | سریال | نوع مدرک | رشته | تسهیلات | صادرکننده | بسته کاری |
| 053 - 073 – 9184                                                                                              |                | BK                                                                                                                                                                                                                                                                                                                                               | GCS                                                         | HY                     | 120                                                               | IN             | L.I              | 0003  | V08                 |                                                       |  |  |                       |       |          |      |         |           |           |
| Item No.                                                                                                      | Cable Tag No.  | From                                                                                                                                                                                                                                                                                                                                             | To                                                          | Cable size             | Description                                                       | Color          | Cable Length (m) | Gland | IS/NIS              | Remark                                                |  |  |                       |       |          |      |         |           |           |
| 117                                                                                                           | *MC-MCC-2101A3 | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>MAIN WATER PUMP<br>Stop Command                | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50   | NIS                 | Out of Havayar scope of work (By Hiran)               |  |  |                       |       |          |      |         |           |           |
| 118                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>MAIN WATER PUMP<br>Start Command               |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 119                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>MAIN WATER PUMP<br>Running Status              |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 120                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>MAIN WATER PUMP<br>Fault Status                |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 121                                                                                                           |                | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>AUX WATER PUMP<br>Stop Command                 |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 122                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>AUX WATER PUMP<br>Start Command                |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 123                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>AUX WATER PUMP<br>Running Status               |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 124                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>AUX WATER PUMP<br>Fault Status                 |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 125                                                                                                           |                | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>WATER HEATER<br>Stop Command                   |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 126                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER HEATER<br>Start Command                  |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 127                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER HEATER<br>Running Status                 |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 128                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER HEATER<br>Fault Status                   |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 129                                                                                                           | *MC-MCC-2101A4 | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>WATER COOLER MOTOR A<br>Stop Command           | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50   | NIS                 | Out of Havayar scope of work (By Hiran)               |  |  |                       |       |          |      |         |           |           |
| 130                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER COOLER MOTOR A<br>Start Command          |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 131                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER COOLER MOTOR A<br>Running Status         |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 132                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER COOLER MOTOR A<br>Fault Status           |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 133                                                                                                           |                | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>BARRING MOTOR<br>Stop Command                  |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 134                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>BARRING MOTOR<br>Start Command                 |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 135                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>BARRING MOTOR<br>Running Status                |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 136                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>BARRING MOTOR<br>Fault Status                  |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 137                                                                                                           |                | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>OIL COOLER MOTOR B<br>Stop Command             |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 138                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>OIL COOLER MOTOR B<br>Start Command            |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 139                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>OIL COOLER MOTOR B<br>Running Status           |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 140                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>OIL COOLER MOTOR B<br>Fault Status             |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 141                                                                                                           | *MC-MCC-2101A5 | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A<br>WATER COOLER MOTOR B<br>Stop Command           | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50   | NIS                 | Out of Havayar scope of work (By Hiran)               |  |  |                       |       |          |      |         |           |           |
| 142                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER COOLER MOTOR B<br>Start Command          |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 143                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER COOLER MOTOR B<br>Running Status         |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 144                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A<br>WATER COOLER MOTOR B<br>Fault Status           |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 145                                                                                                           | *MC-MCC-2101A6 | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A Relay Trip<br>OIL HEATER<br>ESD Command           | 19x2x1mm <sup>2</sup>  | CU,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FIRE RESISTANT | Gray Red Strip | 140              | M50   | NIS                 | Out of Havayar scope of work                          |  |  |                       |       |          |      |         |           |           |
| 146                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>AUX OIL PUMP<br>ESD Command         |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 147                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>LUBRICATOR HEATER<br>ESD Command    |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 148                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>LUBRICATOR MOTOR<br>ESD Command     |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 149                                                                                                           |                | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A Relay Trip<br>MAIN MOTOR<br>ESD Command           |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 150                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>OIL COOLER MOTOR A<br>ESD Command   |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 151                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>MAIN WATER PUMP<br>ESD Command      |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 152                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>AUX WATER PUMP<br>ESD Command       |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 153                                                                                                           |                | Client BRP                                                                                                                                                                                                                                                                                                                                       | UCP-2101A Relay Trip<br>WATER HEATER<br>ESD Command         |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 154                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>WATER COOLER MOTOR A<br>ESD Command |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 155                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>OIL COOLER MOTOR B<br>ESD Command   |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 156                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                  | UCP-2101A Relay Trip<br>WATER COOLER MOTOR B<br>ESD Command |                        |                                                                   |                |                  |       |                     |                                                       |  |  |                       |       |          |      |         |           |           |
| 157                                                                                                           | MC-ESD-2101A   | ESD                                                                                                                                                                                                                                                                                                                                              | UCP-2101A                                                   | 12x2x1mm <sup>2</sup>  | CU,MGT,XLPE,Wire Drain,OSC,PVC,FIRE RESISTANT                     | Gray Red Strip | —                | M40   | NIS                 | Out of Havayar scope of work (By Hiran)               |  |  |                       |       |          |      |         |           |           |
| 158                                                                                                           | MC-GCS-2101A   | DCS                                                                                                                                                                                                                                                                                                                                              | UCP-2101A                                                   | 12x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray           | —                | M40   | NIS                 | Out of Havayar scope of work (By Hiran)               |  |  |                       |       |          |      |         |           |           |
| 159                                                                                                           | IC-P2-2121A    | DCS                                                                                                                                                                                                                                                                                                                                              | UCP-2101A                                                   | 1x2x1.5mm <sup>2</sup> | CU,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray           | 330              | M20-O | NIS                 | Out of Havayar scope of work (By Hiran)<br>Spill Back |  |  |                       |       |          |      |         |           |           |

|  | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح آرایشی و آبنمای تحت آرایشی<br>خربه پاکبج های کمپرسور گاز (رقت و برگشتی) بینک<br>(قرارداد: BK-HD-GCS-CO-0008_03) |               |                           |                        |                                                                  |                                                                  |                  |                  |              |                                                   |  |  |  |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|------------------------|------------------------------------------------------------------|------------------------------------------------------------------|------------------|------------------|--------------|---------------------------------------------------|-------------------------------------------------------------------------------------|--|--|
|                                                                                   | INSTRUMENT CABLE LIST                                                                                                                                         |               |                           |                        |                                                                  |                                                                  |                  |                  |              |                                                   | شماره صفحه 6 از 11                                                                  |  |  |
|                                                                                   | نسخه                                                                                                                                                          | سریال         | نوع هنرک                  | رشته                   | تسهیلات                                                          | صادرکننده                                                        | پسته کاری        | پروژه            | شماره پیمان: |                                                   |                                                                                     |  |  |
| 0003                                                                              | V08                                                                                                                                                           | LI            | IN                        | 120                    | HY                                                               | GCS                                                              | BK               | 053 - 073 - 9184 |              |                                                   |                                                                                     |  |  |
| Item No.                                                                          | Cable Tag No.                                                                                                                                                 | From          | To                        | Cable size             | Description                                                      | Color                                                            | Cable Length (m) | Gland            | IS/NIS       | Remark                                            |                                                                                     |  |  |
| 1                                                                                 | IC-C-PSOV-2201B                                                                                                                                               | C-JBU-S-2101B | C-PSOV-2201B              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 2                                                                                 | IC-C-PSOV-2202B                                                                                                                                               |               | C-PSOV-2202B              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 3                                                                                 | IC-C-PSOV-2203B                                                                                                                                               |               | C-PSOV-2203B              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 4                                                                                 | IC-C-PSOV-2204B                                                                                                                                               |               | C-PSOV-2204B              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 5                                                                                 | IC-C-PSOV-2205B                                                                                                                                               |               | C-PSOV-2205B              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 6                                                                                 | MC-C-JBU-S-2101B                                                                                                                                              |               | UCP-2101B                 | C-JBU-S-2101B          | 7x2x1.5mm <sup>3</sup>                                           | CJ,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FIRE RESISTANT | Gray Red Strip   | 330              | M40          | NIS                                               | Out of Havayar scope of work (By Hiran)                                             |  |  |
| 7                                                                                 | IC-PSOV-2123B                                                                                                                                                 | PSOV-2123B    | UCP-2101B                 | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 350              | M20-O            | NIS          | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 8                                                                                 | IC-C-TS-2191B                                                                                                                                                 | C-TS-2191B    | C-JBU-D-2101B             | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 9                                                                                 | IC-C-TS-2194B                                                                                                                                                 | C-TS-2194B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 10                                                                                | IC-C-P5-2133B                                                                                                                                                 | C-P5-2133B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 11                                                                                | IC-C-P5-2204B                                                                                                                                                 | C-P5-2204B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 12                                                                                | IC-C-P5-2220B                                                                                                                                                 | C-P5-2220B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip                                                   | 10               | M20-O            | NIS          | Supply by Havayar                                 |                                                                                     |  |  |
| 13                                                                                | MC-C-JBU-D-2101B                                                                                                                                              | C-JBU-D-2101B | UCP-2101B                 | 7x2x1mm <sup>2</sup>   | CJ,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FIRE RESISTANT | Gray Red Strip                                                   | 330              | M32              | NIS          | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 14                                                                                | IC-V5-2205B                                                                                                                                                   | V5-2205B      | C-JBU-D-2102B             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 15               | M20-O            | NIS          | Supply by Havayar<br>Loose Item                   |                                                                                     |  |  |
| 15                                                                                | IC-V5-2206B                                                                                                                                                   | V5-2206B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 15               | M20-O            | NIS          | Supply by Havayar<br>Loose Item                   |                                                                                     |  |  |
| 16                                                                                | IC-V5-2207B                                                                                                                                                   | V5-2207B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 15               | M20-O            | NIS          | Supply by Havayar<br>Loose Item                   |                                                                                     |  |  |
| 17                                                                                | IC-V5-2208B                                                                                                                                                   | V5-2208B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 15               | M20-O            | NIS          | Supply by Havayar<br>Loose Item                   |                                                                                     |  |  |
| 18                                                                                | IC-C-X2SO-2225B                                                                                                                                               | C-X2SO-2225B  |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 15               | M20-O            | NIS          | Supply by Havayar<br>Loose Item                   |                                                                                     |  |  |
| 19                                                                                | MC-C-JBU-D-2102B                                                                                                                                              | C-JBU-D-2102B | UCP-2101B                 | 7x2x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Gray                                                             | 330              | M32              | NIS          | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 20                                                                                | IC-X2SO-2123B                                                                                                                                                 | X2SO-2123B    | JBU-D-2103B<br>(Hiran JB) | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 30               | M20-O            | NIS          | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 21                                                                                | IC-X2SO-2123B                                                                                                                                                 | X2SO-2123B    | JBU-D-2103B<br>(Hiran JB) | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                                                             | 30               | M20-O            | NIS          | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 22                                                                                | MC-JBU-D-2103B                                                                                                                                                | C-JBU-D-2103B | UCP-2101B                 | 7x2x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Gray                                                             | 330              | M32              | NIS          | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 23                                                                                | IC-FT-2121B                                                                                                                                                   | FT-2121B      | JBU-A-2102<br>(Hiran JB)  | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 24                                                                                | IC-TT-2122B                                                                                                                                                   | TT-2122B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 25                                                                                | IC-POT-2122B                                                                                                                                                  | POT-2122B     |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 26                                                                                | IC-PT-2123B                                                                                                                                                   | PT-2123B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 27                                                                                | IC-TT-2123B                                                                                                                                                   | TT-2123B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 28                                                                                | IC-PT-2124B                                                                                                                                                   | PT-2124B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 29                                                                                | IC-FT-2131B                                                                                                                                                   | FT-2131B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 30                                                                                | IC-TT-2132B                                                                                                                                                   | TT-2132B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 31                                                                                | IC-PT-2132B                                                                                                                                                   | PT-2132B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 32                                                                                | IC-POT-2132B                                                                                                                                                  | POT-2132B     |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 33                                                                                | IC-TT-2133B                                                                                                                                                   | TT-2133B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 34                                                                                | IC-PT-2133B                                                                                                                                                   | PT-2133B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 35                                                                                | IC-PV-2123B                                                                                                                                                   | PV-2123B      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 36                                                                                | IC-PV2-2123B                                                                                                                                                  | PV2-2123B     |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 30               | M20-O            | IS           | Out of Havayar scope of work (By Hiran)<br>Direct |                                                                                     |  |  |
| 37                                                                                | MC-JBU-A-2102                                                                                                                                                 | JBU-A-2102    | UCP-2101B                 | 19x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue                                                       | 380              | M50              | IS           | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 38                                                                                | IC-C-TE-2214B                                                                                                                                                 | C-TE-2214B    | C-TT-2214B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 39                                                                                | IC-C-TE-2215B                                                                                                                                                 | C-TE-2215B    | C-TT-2215B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 40                                                                                | IC-C-TE-2216B                                                                                                                                                 | C-TE-2216B    | C-TT-2216B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 41                                                                                | IC-C-TE-2217B                                                                                                                                                 | C-TE-2217B    | C-TT-2217B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 42                                                                                | IC-C-TE-2218B                                                                                                                                                 | C-TE-2218B    | C-TT-2218B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 43                                                                                | IC-C-TE-2219B                                                                                                                                                 | C-TE-2219B    | C-TT-2219B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 44                                                                                | IC-C-TE-2220B                                                                                                                                                 | C-TE-2220B    | C-TT-2220B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | -                | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 45                                                                                | IC-C-TE-2221B                                                                                                                                                 | C-TE-2220B    | C-TT-2220B                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip                                             | -                | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 46                                                                                | IC-C-TT-2203B                                                                                                                                                 | C-TT-2203B    | C-JBU-A-2101B             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 47                                                                                | IC-C-TT-2213B                                                                                                                                                 | C-TT-2213B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 20               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 48                                                                                | IC-C-PT-2204B                                                                                                                                                 | C-PT-2204B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 49                                                                                | IC-C-PT-2205B                                                                                                                                                 | C-PT-2205B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 20               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 50                                                                                | IC-C-LT-2213B                                                                                                                                                 | C-LT-2213B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 20               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 51                                                                                | IC-C-TT-2191B                                                                                                                                                 | C-TT-2191B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 52                                                                                | IC-C-TT-2194B                                                                                                                                                 | C-TT-2194B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 20               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 53                                                                                | IC-C-TT-2231B                                                                                                                                                 | C-TT-2231B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 54                                                                                | MC-C-JBU-A-2101B                                                                                                                                              | C-JBU-A-2101B | UCP-2101B                 | 12x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue                                                       | 330              | M40              | IS           | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 55                                                                                | IC-C-PT-2201B                                                                                                                                                 | C-PT-2201B    | C-JBU-A-2104B             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 56                                                                                | IC-C-PT-2210B                                                                                                                                                 | C-PT-2210B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 57                                                                                | IC-C-PT-2211B                                                                                                                                                 | C-PT-2211B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 58                                                                                | IC-C-PT-2212B                                                                                                                                                 | C-PT-2212B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 59                                                                                | IC-C-PT-2200B                                                                                                                                                 | C-PT-2200B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 60                                                                                | IC-C-LT-2200B                                                                                                                                                 | C-LT-2200B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 61                                                                                | IC-C-FT-2200B                                                                                                                                                 | C-FT-2200B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 62                                                                                | IC-C-TT-2204B                                                                                                                                                 | C-TT-2204B    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 63                                                                                | IC-C-POT-2204B                                                                                                                                                | C-POT-2204B   |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue                                                       | 10               | M20-O            | IS           | Supply by Havayar                                 |                                                                                     |  |  |
| 64                                                                                | MC-C-JBU-A-2104B                                                                                                                                              | C-JBU-A-2104B | UCP-2101B                 | 12x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue                                                       | 330              | M40              | IS           | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |
| 65                                                                                | IC-C-ZE-2200B                                                                                                                                                 | C-ZE-2200B    | C-JBU-A-2102B             | Special cable          |                                                                  | N/A                                                              | 8                | M20-O            | N/A          | Supply by Havayar                                 |                                                                                     |  |  |
| 66                                                                                | IC-C-ZE-2201B                                                                                                                                                 | C-ZE-2201B    |                           | Special cable          |                                                                  | N/A                                                              | 8                | M20-O            | N/A          | Supply by Havayar                                 |                                                                                     |  |  |
| 67                                                                                | IC-C-XE-2200B                                                                                                                                                 | C-XE-2200B    |                           | Special cable          |                                                                  | N/A                                                              | 8.5              | M20-O            | N/A          | Supply by Havayar                                 |                                                                                     |  |  |
| 68                                                                                | MC-C-JBU-A-2102B                                                                                                                                              | C-JBU-A-2102B | UCP-2101B                 | 7x3x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue                                                       | 330              | M40              | IS           | Out of Havayar scope of work (By Hiran)           |                                                                                     |  |  |



|                                                                                   |                |                                                                                 |                                                             |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
|-----------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------|-------------------------------------------------------------------|----------------|------------------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------|--|
|  |                | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح آرایش و آبپاش تحت آرایش           |                                                             |                        |                                                                   |                |                  |       |  |                                                       |  |
|                                                                                   |                | خرید پکیج های کمپرسور گاز (رقت و برگشتی) بینک<br>(BK-HD-GCS-CO-0008_03 قرارداد) |                                                             |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
|                                                                                   |                | شماره پیمان:                                                                    |                                                             | INSTRUMENT CABLE LIST  |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| پروژه                                                                             | بسته کاری      |                                                                                 |                                                             | صادر کننده             | تسهیلات                                                           | رشته           | نوع هنرک         | سرمیل | نسخه                                                                                |                                                       |  |
| 053 - 073 – 9184                                                                  |                | BK                                                                              | GCS                                                         | HY                     | 120                                                               | IN             | LI               | 0003  | V08                                                                                 | شماره صفحه: 8 از 11                                   |  |
| Item No.                                                                          | Cable Tag No.  | From                                                                            | To                                                          | Cable size             | Description                                                       | Color          | Cable Length (m) | Gland | IS/NIS                                                                              | Remark                                                |  |
| 117                                                                               | *MC-MCC-2101B3 | Client IRP                                                                      | UCP-2101B<br>MAIN WATER PUMP<br>Stop Command                | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50   | NIS                                                                                 | Out of Havayar scope of work (By Hiran)               |  |
| 118                                                                               |                |                                                                                 | UCP-2101B<br>MAIN WATER PUMP<br>Start Command               |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 119                                                                               |                |                                                                                 | UCP-2101B<br>MAIN WATER PUMP<br>Running Status              |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 120                                                                               |                |                                                                                 | UCP-2101B<br>MAIN WATER PUMP<br>Fault Status                |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 121                                                                               |                | Client IRP                                                                      | UCP-2101B<br>AUX WATER PUMP<br>Stop Command                 |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 122                                                                               |                |                                                                                 | UCP-2101B<br>AUX WATER PUMP<br>Start Command                |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 123                                                                               |                |                                                                                 | UCP-2101B<br>AUX WATER PUMP<br>Running Status               |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 124                                                                               |                |                                                                                 | UCP-2101B<br>AUX WATER PUMP<br>Fault Status                 |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 125                                                                               |                | Client IRP                                                                      | UCP-2101B<br>WATER HEATER<br>Stop Command                   |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 126                                                                               |                |                                                                                 | UCP-2101B<br>WATER HEATER<br>Start Command                  |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 127                                                                               |                |                                                                                 | UCP-2101B<br>WATER HEATER<br>Running Status                 |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 128                                                                               |                |                                                                                 | UCP-2101B<br>WATER HEATER<br>Fault Status                   |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 129                                                                               | *MC-MCC-2101B4 | Client IRP                                                                      | UCP-2101B<br>WATER COOLER MOTOR A<br>Stop Command           | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50   | NIS                                                                                 | Out of Havayar scope of work (By Hiran)               |  |
| 130                                                                               |                |                                                                                 | UCP-2101B<br>WATER COOLER MOTOR A<br>Start Command          |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 131                                                                               |                |                                                                                 | UCP-2101B<br>WATER COOLER MOTOR A<br>Running Status         |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 132                                                                               |                |                                                                                 | UCP-2101B<br>WATER COOLER MOTOR A<br>Fault Status           |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 133                                                                               |                | Client IRP                                                                      | UCP-2101B<br>BARRING MOTOR<br>Stop Command                  |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 134                                                                               |                |                                                                                 | UCP-2101B<br>BARRING MOTOR<br>Start Command                 |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 135                                                                               |                |                                                                                 | UCP-2101B<br>BARRING MOTOR<br>Running Status                |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 136                                                                               |                |                                                                                 | UCP-2101B<br>BARRING MOTOR<br>Fault Status                  |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 137                                                                               |                | Client IRP                                                                      | UCP-2101B<br>OIL COOLER MOTOR B<br>Stop Command             |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 138                                                                               |                |                                                                                 | UCP-2101B<br>OIL COOLER MOTOR B<br>Start Command            |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 139                                                                               |                |                                                                                 | UCP-2101B<br>OIL COOLER MOTOR B<br>Running Status           |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 140                                                                               |                |                                                                                 | UCP-2101B<br>OIL COOLER MOTOR B<br>Fault Status             |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 141                                                                               | *MC-MCC-2101B5 | Client IRP                                                                      | UCP-2101B<br>WATER COOLER MOTOR B<br>Stop Command           | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50   | NIS                                                                                 | Out of Havayar scope of work (By Hiran)               |  |
| 142                                                                               |                |                                                                                 | UCP-2101B<br>WATER COOLER MOTOR B<br>Start Command          |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 143                                                                               |                |                                                                                 | UCP-2101B<br>WATER COOLER MOTOR B<br>Running Status         |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 144                                                                               |                |                                                                                 | UCP-2101B<br>WATER COOLER MOTOR B<br>Fault Status           |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 145                                                                               | *MC-MCC-2101B6 | Client IRP                                                                      | UCP-2101B Relay Trip<br>OIL HEATER<br>ESD Command           | 19x2x1mm <sup>2</sup>  | CU,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FIRE RESISTANT | Gray Red Strip | 140              | M50   | NIS                                                                                 | Out of Havayar scope of work                          |  |
| 146                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>AUX OIL PUMP<br>ESD Command         |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 147                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>LUBRICATOR HEATER<br>ESD Command    |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 148                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>LUBRICATOR MOTOR<br>ESD Command     |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 149                                                                               |                | Client IRP                                                                      | UCP-2101B Relay Trip<br>MAIN MOTOR<br>ESD Command           |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 150                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>OIL COOLER MOTOR A<br>ESD Command   |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 151                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>MAIN WATER PUMP<br>ESD Command      |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 152                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>AUX WATER PUMP<br>ESD Command       |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 153                                                                               |                | Client IRP                                                                      | UCP-2101B Relay Trip<br>WATER HEATER<br>ESD Command         |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 154                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>WATER COOLER MOTOR A<br>ESD Command |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 155                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>OIL COOLER MOTOR B<br>ESD Command   |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 156                                                                               |                |                                                                                 | UCP-2101B Relay Trip<br>WATER COOLER MOTOR B<br>ESD Command |                        |                                                                   |                |                  |       |                                                                                     |                                                       |  |
| 157                                                                               | MC-ESD-2101B   | ESD                                                                             | UCP-2101B                                                   | 12x2x1mm <sup>2</sup>  | CU,MGT,XLPE,Wire Drain,OSC,PVC,FIRE RESISTANT                     | Gray Red Strip | ...              | M40   | NIS                                                                                 | Out of Havayar scope of work (By Hiran)               |  |
| 158                                                                               | MC-DCS-2101B   | DCS                                                                             | UCP-2101B                                                   | 12x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray           | ...              | M40   | NIS                                                                                 | Out of Havayar scope of work (By Hiran)               |  |
| 159                                                                               | IC-PF-2121B    | DCS                                                                             | UCP-2101B                                                   | 1x2x1.5mm <sup>2</sup> | CU,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray           | 330              | M20-O | NIS                                                                                 | Out of Havayar scope of work (By Hiran)<br>Spill Back |  |

|                                                                                   |                                                                                                                                                              |               |                           |                        |                                                                  |                      |                  |       |        |                                                                                     |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|------------------------|------------------------------------------------------------------|----------------------|------------------|-------|--------|-------------------------------------------------------------------------------------|
|  | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح آرایش و آبنمای تحت آرایش<br>خرید کابلیج های کمپرسور گاز (رقت و برگشتی) بینک<br>(قرارداد: BK-HD-GCS-CO-0008_03) |               |                           |                        |                                                                  |                      |                  |       |        |                                                                                     |
|                                                                                   | INSTRUMENT CABLE LIST                                                                                                                                        |               |                           |                        |                                                                  |                      |                  |       |        |                                                                                     |
|                                                                                   | شماره پیمان:                                                                                                                                                 |               |                           |                        |                                                                  |                      |                  |       |        |                                                                                     |
|                                                                                   | 053 - 073 - 9184                                                                                                                                             | BK            | GCS                       | HY                     | تجهیزات                                                          | رشته                 | نوع هنرک         | سرمیل | نسخه   |  |
| Item No.                                                                          | Cable Tag No.                                                                                                                                                | From          | To                        | Cable size             | Description                                                      | Color                | Cable Length (m) | Gland | IS/NIS |                                                                                     |
| 1                                                                                 | IC-C-PSOV-2201C                                                                                                                                              | C-JBU-S-2101C | C-PSOV-2201C              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    |                                                                                     |
| 2                                                                                 | IC-C-PSOV-2202C                                                                                                                                              |               | C-PSOV-2202C              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    |                                                                                     |
| 3                                                                                 | IC-C-PSOV-2203C                                                                                                                                              |               | C-PSOV-2203C              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    |                                                                                     |
| 4                                                                                 | IC-C-PSOV-2204C                                                                                                                                              |               | C-PSOV-2204C              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    |                                                                                     |
| 5                                                                                 | IC-C-PSOV-2205C                                                                                                                                              |               | C-PSOV-2205C              | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    |                                                                                     |
| 6                                                                                 | MC-C-JBU-S-2101C                                                                                                                                             | UCP-2101C     | C-JBU-S-2101C             | 7x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FIRE RESISTANT | Gray Red Strip       | 330              | M40   | NIS    | Out of Havayar scope of work (By Hiran)                                             |
| 7                                                                                 | IC-PSOV-2123C                                                                                                                                                | PSOV-2123C    | UCP-2101C                 | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 350              | M20-O | NIS    | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 8                                                                                 | IC-C-TS-2191C                                                                                                                                                | C-TS-2191C    | C-JBU-D-2101C             | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    | Supply by Havayar                                                                   |
| 9                                                                                 | IC-C-TS-2194C                                                                                                                                                | C-TS-2194C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    | Supply by Havayar                                                                   |
| 10                                                                                | IC-C-PS-2133C                                                                                                                                                | C-PS-2133C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    | Supply by Havayar                                                                   |
| 11                                                                                | IC-C-PS-2294C                                                                                                                                                | C-PS-2294C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    | Supply by Havayar                                                                   |
| 12                                                                                | IC-C-PS-2220C                                                                                                                                                | C-PS-2220C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Gray Red Strip       | 10               | M20-O | NIS    | Supply by Havayar                                                                   |
| 13                                                                                | MC-C-JBU-D-2101C                                                                                                                                             | C-JBU-D-2101C | UCP-2101C                 | 7x2x1mm <sup>2</sup>   | CJ,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FIRE RESISTANT | Gray Red Strip       | 330              | M32   | NIS    | Out of Havayar scope of work (By Hiran)                                             |
| 14                                                                                | IC-VS-2205C                                                                                                                                                  | VS-2205C      | C-JBU-D-2102C             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 15               | M20-O | NIS    | Supply by Havayar<br>Loose Item                                                     |
| 15                                                                                | IC-VS-2206C                                                                                                                                                  | VS-2206C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 15               | M20-O | NIS    | Supply by Havayar<br>Loose Item                                                     |
| 16                                                                                | IC-VS-2207C                                                                                                                                                  | VS-2207C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 15               | M20-O | NIS    | Supply by Havayar<br>Loose Item                                                     |
| 17                                                                                | IC-VS-2208C                                                                                                                                                  | VS-2208C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 15               | M20-O | NIS    | Supply by Havayar<br>Loose Item                                                     |
| 18                                                                                | IC-C-XS20-2225C                                                                                                                                              | C-XS20-2225C  |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 15               | M20-O | NIS    | Supply by Havayar<br>Loose Item                                                     |
| 19                                                                                | MC-C-JBU-D-2102C                                                                                                                                             | C-JBU-D-2102C | UCP-2101C                 | 7x2x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Gray                 | 330              | M32   | NIS    | Out of Havayar scope of work (By Hiran)                                             |
| 20                                                                                | IC-XS20-2123C                                                                                                                                                | XS20-2123C    | JBU-D-2103C<br>(Hiran JB) | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 36               | M20-O | NIS    | Out of Havayar scope of work (By Hiran)                                             |
| 21                                                                                | IC-XS20-2123C                                                                                                                                                | XS20-2123C    | JBU-D-2103C<br>(Hiran JB) | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                       | Gray                 | 30               | M20-O | NIS    | Out of Havayar scope of work (By Hiran)                                             |
| 22                                                                                | MC-JBU-D-2103C                                                                                                                                               | C-JBU-D-2103C | UCP-2101C                 | 7x2x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Gray                 | 330              | M32   | NIS    | Out of Havayar scope of work (By Hiran)                                             |
| 23                                                                                | IC-FT-2121C                                                                                                                                                  | FT-2121C      | JBU-A-2103<br>(Hiran JB)  | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 24                                                                                | IC-TT-2122C                                                                                                                                                  | TT-2122C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 25                                                                                | IC-POT-2122C                                                                                                                                                 | POT-2122C     |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 26                                                                                | IC-PT-2123C                                                                                                                                                  | PT-2123C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 27                                                                                | IC-TT-2123C                                                                                                                                                  | TT-2123C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 28                                                                                | IC-PT-2124C                                                                                                                                                  | PT-2124C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 29                                                                                | IC-FT-2131C                                                                                                                                                  | FT-2131C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 30                                                                                | IC-TT-2132C                                                                                                                                                  | TT-2132C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 31                                                                                | IC-PT-2133C                                                                                                                                                  | PT-2133C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 32                                                                                | IC-POT-2133C                                                                                                                                                 | POT-2133C     |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 33                                                                                | IC-TT-2133C                                                                                                                                                  | TT-2133C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 34                                                                                | IC-PT-2133C                                                                                                                                                  | PT-2133C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 35                                                                                | IC-PV-2123C                                                                                                                                                  | PV-2123C      |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 36                                                                                | IC-PV2-2123C                                                                                                                                                 | PV2-2123C     |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 30               | M20-O | IS     | Out of Havayar scope of work (By Hiran)<br>Direct                                   |
| 37                                                                                | MC-JBU-A-2103                                                                                                                                                | JBU-A-2103    | UCP-2101C                 | 19x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue           | 380              | M50   | IS     | Out of Havayar scope of work (By Hiran)                                             |
| 38                                                                                | IC-C-TE-2214C                                                                                                                                                | C-TE-2214C    | C-TT-2214C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 39                                                                                | IC-C-TE-2215C                                                                                                                                                | C-TE-2215C    | C-TT-2215C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 40                                                                                | IC-C-TE-2216C                                                                                                                                                | C-TE-2216C    | C-TT-2216C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 41                                                                                | IC-C-TE-2217C                                                                                                                                                | C-TE-2217C    | C-TT-2217C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 42                                                                                | IC-C-TE-2218C                                                                                                                                                | C-TE-2218C    | C-TT-2218C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 43                                                                                | IC-C-TE-2219C                                                                                                                                                | C-TE-2219C    | C-TT-2219C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 44                                                                                | IC-C-TE-2220C                                                                                                                                                | C-TE-2220C    | C-TT-2220C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | -                | M20-O | IS     | Supply by Havayar                                                                   |
| 45                                                                                | IC-C-TE-2221C                                                                                                                                                | C-TE-2220C    | C-TT-2220C                | 1x3x1.5mm <sup>2</sup> | CJ,MGT,XLPE,Wire Drain,OSC,SWA,PVC,FIRE RESISTANT                | Light Blue Red Strip | -                | M20-O | IS     | Supply by Havayar                                                                   |
| 46                                                                                | IC-C-TT-2203C                                                                                                                                                | C-TT-2203C    | C-JBU-A-2101C             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 47                                                                                | IC-C-TT-2213C                                                                                                                                                | C-TT-2213C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 20               | M20-O | IS     | Supply by Havayar                                                                   |
| 48                                                                                | IC-C-PT-2204C                                                                                                                                                | C-PT-2204C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 49                                                                                | IC-C-PT-2220C                                                                                                                                                | C-PT-2220C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 20               | M20-O | IS     | Supply by Havayar                                                                   |
| 50                                                                                | IC-C-LT-2213C                                                                                                                                                | C-LT-2213C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 20               | M20-O | IS     | Supply by Havayar                                                                   |
| 51                                                                                | IC-C-TT-2191C                                                                                                                                                | C-TT-2191C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 52                                                                                | IC-C-TT-2194C                                                                                                                                                | C-TT-2194C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 20               | M20-O | IS     | Supply by Havayar                                                                   |
| 53                                                                                | IC-C-TT-2231C                                                                                                                                                | C-TT-2231C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 54                                                                                | MC-C-JBU-A-2101C                                                                                                                                             | C-JBU-A-2101C | UCP-2101C                 | 12x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue           | 330              | M40   | IS     | Out of Havayar scope of work (By Hiran)                                             |
| 55                                                                                | IC-C-PT-2201C                                                                                                                                                | C-PT-2201C    | C-JBU-A-2104C             | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 56                                                                                | IC-C-PT-2210C                                                                                                                                                | C-PT-2210C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 57                                                                                | IC-C-PT-2211C                                                                                                                                                | C-PT-2211C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 58                                                                                | IC-C-PT-2212C                                                                                                                                                | C-PT-2212C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 59                                                                                | IC-C-PT-2200C                                                                                                                                                | C-PT-2200C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 60                                                                                | IC-C-LT-2200C                                                                                                                                                | C-LT-2200C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 61                                                                                | IC-C-FT-2206C                                                                                                                                                | C-FT-2206C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 62                                                                                | IC-C-TT-2204C                                                                                                                                                | C-TT-2204C    |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 63                                                                                | IC-C-POT-2204C                                                                                                                                               | C-POT-2204C   |                           | 1x2x1.5mm <sup>2</sup> | CJ,XLPE,Wire Drain,OSC,SWA,PVC,FLAME RETARDANT                   | Light Blue           | 10               | M20-O | IS     | Supply by Havayar                                                                   |
| 64                                                                                | MC-C-JBU-A-2104C                                                                                                                                             | C-JBU-A-2104C | UCP-2101C                 | 12x2x1mm <sup>2</sup>  | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue           | 330              | M40   | IS     | Out of Havayar scope of work (By Hiran)                                             |
| 65                                                                                | IC-C-ZE-2200C                                                                                                                                                | C-ZE-2200C    | C-JBU-A-2102C             | Special cable          |                                                                  | N/A                  | 8                | M20-O | N/A    | Supply by Havayar                                                                   |
| 66                                                                                | IC-C-ZE-2201C                                                                                                                                                | C-ZE-2201C    |                           | Special cable          |                                                                  | N/A                  | 8                | M20-O | N/A    | Supply by Havayar                                                                   |
| 67                                                                                | IC-C-XE-2200C                                                                                                                                                | C-XE-2200C    |                           | Special cable          |                                                                  | N/A                  | 8.5              | M20-O | N/A    | Supply by Havayar                                                                   |
| 68                                                                                | MC-C-JBU-A-2102C                                                                                                                                             | C-JBU-A-2102C | UCP-2101C                 | 7x3x1mm <sup>2</sup>   | CJ,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath PVC,FLAME RETARDANT    | Light Blue           | 330              | M40   | IS     | Out of Havayar scope of work (By Hiran)                                             |



|                                                                                            |                |                                                                                                                                                          |                                                             |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
|--------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------|-------------------------------------------------------------------|----------------|------------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------|------|-----|----------------------|--|
| <br>NISOC |                | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح آرایش و آبپاش تحت آرایش<br>خرید پکیج های کمپرسور گاز (رقت و برگشتی) بینک<br>(BK-HD-GCS-CO-0008_03 قرارداد) |                                                             |                        |                                                                   |                |                  |           |        | <br>HAVAYAR<br>INDUSTRIAL GROUP |      |     |                      |  |
|                                                                                            |                | INSTRUMENT CABLE LIST                                                                                                                                    |                                                             |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
|                                                                                            |                | نسخه                                                                                                                                                     | سرمیل                                                       | نوع هنرک               | رشته                                                              | تسهیلات        | صادر کننده       | پسته کاری | پروژه  |                                                                                                                    |      |     |                      |  |
| شماره پیمان:                                                                               |                | 053 - 073 – 9184                                                                                                                                         | BK                                                          | GCS                    | HY                                                                | 128            |                  | IN        |        | LI                                                                                                                 | 0063 | V88 | شماره صفحه: 11 از 11 |  |
| Item No.                                                                                   | Cable Tag No.  | From                                                                                                                                                     | To                                                          | Cable size             | Description                                                       | Color          | Cable Length (m) | Gland     | IS/NIS | Remark                                                                                                             |      |     |                      |  |
| 117                                                                                        | *MC-MCC-2101C3 | Client IRP                                                                                                                                               | UCP-2101C<br>MAIN WATER PUMP<br>Stop Command                | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50       | NIS    | Out of Havayar scope of work (By Hiran)                                                                            |      |     |                      |  |
| 118                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>MAIN WATER PUMP<br>Start Command               |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 119                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>MAIN WATER PUMP<br>Running Status              |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 120                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>MAIN WATER PUMP<br>Fault Status                |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 121                                                                                        |                | Client IRP                                                                                                                                               | UCP-2101C<br>AUX WATER PUMP<br>Stop Command                 |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 122                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>AUX WATER PUMP<br>Start Command                |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 123                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>AUX WATER PUMP<br>Running Status               |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 124                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>AUX WATER PUMP<br>Fault Status                 |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 125                                                                                        |                | Client IRP                                                                                                                                               | UCP-2101C<br>WATER HEATER<br>Stop Command                   |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 126                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER HEATER<br>Start Command                  |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 127                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER HEATER<br>Running Status                 |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 128                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER HEATER<br>Fault Status                   |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 129                                                                                        | *MC-MCC-2101C4 | Client IRP                                                                                                                                               | UCP-2101C<br>WATER COOLER MOTOR A<br>Stop Command           | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50       | NIS    | Out of Havayar scope of work (By Hiran)                                                                            |      |     |                      |  |
| 130                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER COOLER MOTOR A<br>Start Command          |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 131                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER COOLER MOTOR A<br>Running Status         |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 132                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER COOLER MOTOR A<br>Fault Status           |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 133                                                                                        |                | Client IRP                                                                                                                                               | UCP-2101C<br>BARRING MOTOR<br>Stop Command                  |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 134                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>BARRING MOTOR<br>Start Command                 |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 135                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>BARRING MOTOR<br>Running Status                |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 136                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>BARRING MOTOR<br>Fault Status                  |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 137                                                                                        |                | Client IRP                                                                                                                                               | UCP-2101C<br>OIL COOLER MOTOR B<br>Stop Command             |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 138                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>OIL COOLER MOTOR B<br>Start Command            |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 139                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>OIL COOLER MOTOR B<br>Running Status           |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 140                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>OIL COOLER MOTOR B<br>Fault Status             |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 141                                                                                        | *MC-MCC-2101C5 | Client IRP                                                                                                                                               | UCP-2101C<br>WATER COOLER MOTOR B<br>Stop Command           | 19x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FLAME RETARDANT    | Gray           | 140              | M50       | NIS    | Out of Havayar scope of work (By Hiran)                                                                            |      |     |                      |  |
| 142                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER COOLER MOTOR B<br>Start Command          |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 143                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER COOLER MOTOR B<br>Running Status         |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 144                                                                                        |                |                                                                                                                                                          | UCP-2101C<br>WATER COOLER MOTOR B<br>Fault Status           |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 145                                                                                        | *MC-MCC-2101C6 | Client IRP                                                                                                                                               | UCP-2101C Relay Trip<br>OIL HEATER<br>ESD Command           | 19x2x1mm <sup>2</sup>  | CU,MGT,XLPE,Wire Drain,SC,OSC,SWA,Lead Sheath ,PVC,FIRE RESISTANT | Gray Red Strip | 140              | M50       | NIS    | Out of Havayar scope of work                                                                                       |      |     |                      |  |
| 146                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>AUX OIL PUMP<br>ESD Command         |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 147                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>LUBRICATOR HEATER<br>ESD Command    |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 148                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>LUBRICATOR MOTOR<br>ESD Command     |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 149                                                                                        |                | Client IRP                                                                                                                                               | UCP-2101C Relay Trip<br>MAIN MOTOR<br>ESD Command           |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 150                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>OIL COOLER MOTOR A<br>ESD Command   |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 151                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>MAIN WATER PUMP<br>ESD Command      |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 152                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>AUX WATER PUMP<br>ESD Command       |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 153                                                                                        |                | Client IRP                                                                                                                                               | UCP-2101C Relay Trip<br>WATER HEATER<br>ESD Command         |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 154                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>WATER COOLER MOTOR A<br>ESD Command |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 155                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>OIL COOLER MOTOR B<br>ESD Command   |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 156                                                                                        |                |                                                                                                                                                          | UCP-2101C Relay Trip<br>WATER COOLER MOTOR B<br>ESD Command |                        |                                                                   |                |                  |           |        |                                                                                                                    |      |     |                      |  |
| 157                                                                                        | MC-ESD-2101C   | ESD                                                                                                                                                      | UCP-2101C                                                   | 12x2x1mm <sup>2</sup>  | CU,MGT,XLPE,Wire Drain,OSC,PVC,FIRE RESISTANT                     | Gray Red Strip | –                | M40       | NIS    | Out of Havayar scope of work (By Hiran)                                                                            |      |     |                      |  |
| 158                                                                                        | MC-DCS-2101C   | DCS                                                                                                                                                      | UCP-2101C                                                   | 12x2x1mm <sup>2</sup>  | CU,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray           | –                | M40       | NIS    | Out of Havayar scope of work (By Hiran)                                                                            |      |     |                      |  |
| 159                                                                                        | IC-PF-2121C    | DCS                                                                                                                                                      | UCP-2101C                                                   | 1x2x1.5mm <sup>2</sup> | CU,XLPE,Wire Drain,OSC,PVC,FLAME RETARDANT                        | Gray           | 330              | M20-O     | NIS    | Out of Havayar scope of work (By Hiran)<br>Spill Back                                                              |      |     |                      |  |