

|                                                                                                  |                                                                                                      |           |            |         |      |          |                                                                                    |      |                    |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------|------------|---------|------|----------|------------------------------------------------------------------------------------|------|--------------------|
| <br><b>NISOC</b> | نگهداشت و افزایش تولید میدان نفتی بینک<br>سطح الارض<br>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک |           |            |         |      |          |  |      |                    |
|                                                                                                  | PROCESS DATA SHEETS FOR FLARE K.O. DRUM                                                              |           |            |         |      |          |                                                                                    |      |                    |
| شماره پیمان:                                                                                     | پروژه                                                                                                | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال                                                                              | نسخه | شماره صفحه: ۱ از ۴ |
| ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                                 | BK                                                                                                   | GCS       | PEDCO      | 120     | PR   | DT       | 0012                                                                               | D03  |                    |

## طرح نگهداشت و افزایش تولید ۲۷ مخزن

### PROCESS DATA SHEETS FOR FLARE K.O. DRUM

#### نگهداشت و افزایش تولید میدان نفتی بینک

|      |          |                           |              |             |                |                 |
|------|----------|---------------------------|--------------|-------------|----------------|-----------------|
|      |          |                           |              |             |                |                 |
|      |          |                           |              |             |                |                 |
| D03  | OCT.2023 | AFC                       | M.Aryafar    | M.Fakharian | S.Faramarzpoor |                 |
| D02  | OCT.2022 | AFC                       | M.Aryafar    | M.Fakharian | M.Mehrshad     |                 |
| D01  | JUL.2021 | IFA                       | M.Aryafar    | M.Fakharian | M.Mehrshad     |                 |
| D00  | NOV.2021 | IFC                       | M.Aryafar    | M.Fakharian | M.Mehrshad     |                 |
| Rev. | Date     | Purpose of Issue / Status | Prepared by: | Checked by: | Approved by:   | CLIENT Approval |

Class: 1      CLIENT Doc. Number: F0Z-708757

status:

- IDC: Inter-Discipline Check
- IFC: Issued For Comment
- IFA: Issued For Approval
- AFD: Approved For Design
- AFC: Approved For Construction
- AFP: Approved For Purchase
- AFQ: Approved For Quotation
- IFI: Issued For Information
- AB-R: As-Built for CLIENT Review
- AB-A: As-Built –Approved

|                                                                                                  |                                                                                                                           |               |                 |             |         |             |                                                                                                                                                                        |          |                    |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------|-----------------|-------------|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------|
| <br><b>NISOC</b> | <b>نگهداشت و افزایش تولید میدان نفتی بینک</b><br><b>سطح الارض</b><br><b>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</b> |               |                 |             |         |             |   |          |                    |
|                                                                                                  | <b>PROCESS DATA SHEETS FOR FLARE K.O. DRUM</b>                                                                            |               |                 |             |         |             |                                                                                                                                                                        |          |                    |
| شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴                                                                    | پروژه BK                                                                                                                  | بسته کاری GCS | صادرکننده PEDCO | تسهیلات 120 | رشته PR | نوع مدرک DT | سریال 0012                                                                                                                                                             | نسخه D03 | شماره صفحه: ۲ از ۴ |

| REVISION RECORD SHEET |     |     |     |     |     |         |     |     |     |     |     |
|-----------------------|-----|-----|-----|-----|-----|---------|-----|-----|-----|-----|-----|
| Table 1               |     |     |     |     |     | Table 2 |     |     |     |     |     |
| Page                  | D00 | D01 | D02 | D03 | D04 | Page    | D00 | D01 | D02 | D03 | D04 |
| 1                     | X   |     |     |     |     | 65      |     |     |     |     |     |
| 2                     | X   |     |     |     |     | 66      |     |     |     |     |     |
| 3                     | X   | X   | X   | X   |     | 67      |     |     |     |     |     |
| 4                     | X   | X   |     |     |     | 68      |     |     |     |     |     |
| 5                     |     |     |     |     |     | 69      |     |     |     |     |     |
| 6                     |     |     |     |     |     | 70      |     |     |     |     |     |
| 7                     |     |     |     |     |     | 71      |     |     |     |     |     |
| 8                     |     |     |     |     |     | 72      |     |     |     |     |     |
| 9                     |     |     |     |     |     | 73      |     |     |     |     |     |
| 10                    |     |     |     |     |     | 74      |     |     |     |     |     |
| 11                    |     |     |     |     |     | 75      |     |     |     |     |     |
| 12                    |     |     |     |     |     | 76      |     |     |     |     |     |
| 13                    |     |     |     |     |     | 77      |     |     |     |     |     |
| 14                    |     |     |     |     |     | 78      |     |     |     |     |     |
| 15                    |     |     |     |     |     | 79      |     |     |     |     |     |
| 16                    |     |     |     |     |     | 80      |     |     |     |     |     |
| 17                    |     |     |     |     |     | 81      |     |     |     |     |     |
| 18                    |     |     |     |     |     | 82      |     |     |     |     |     |
| 19                    |     |     |     |     |     | 83      |     |     |     |     |     |
| 20                    |     |     |     |     |     | 84      |     |     |     |     |     |
| 21                    |     |     |     |     |     | 85      |     |     |     |     |     |
| 22                    |     |     |     |     |     | 86      |     |     |     |     |     |
| 23                    |     |     |     |     |     | 87      |     |     |     |     |     |
| 24                    |     |     |     |     |     | 88      |     |     |     |     |     |
| 25                    |     |     |     |     |     | 89      |     |     |     |     |     |
| 26                    |     |     |     |     |     | 90      |     |     |     |     |     |
| 27                    |     |     |     |     |     | 91      |     |     |     |     |     |
| 28                    |     |     |     |     |     | 92      |     |     |     |     |     |
| 29                    |     |     |     |     |     | 93      |     |     |     |     |     |
| 30                    |     |     |     |     |     | 94      |     |     |     |     |     |
| 31                    |     |     |     |     |     | 95      |     |     |     |     |     |
| 32                    |     |     |     |     |     | 96      |     |     |     |     |     |
| 33                    |     |     |     |     |     | 97      |     |     |     |     |     |
| 34                    |     |     |     |     |     | 98      |     |     |     |     |     |
| 35                    |     |     |     |     |     | 99      |     |     |     |     |     |
| 36                    |     |     |     |     |     | 100     |     |     |     |     |     |
| 37                    |     |     |     |     |     | 101     |     |     |     |     |     |
| 38                    |     |     |     |     |     | 102     |     |     |     |     |     |
| 39                    |     |     |     |     |     | 103     |     |     |     |     |     |
| 40                    |     |     |     |     |     | 104     |     |     |     |     |     |
| 41                    |     |     |     |     |     | 105     |     |     |     |     |     |
| 42                    |     |     |     |     |     | 106     |     |     |     |     |     |
| 43                    |     |     |     |     |     | 107     |     |     |     |     |     |
| 44                    |     |     |     |     |     | 108     |     |     |     |     |     |
| 45                    |     |     |     |     |     | 109     |     |     |     |     |     |
| 46                    |     |     |     |     |     | 110     |     |     |     |     |     |
| 47                    |     |     |     |     |     | 111     |     |     |     |     |     |
| 48                    |     |     |     |     |     | 112     |     |     |     |     |     |
| 49                    |     |     |     |     |     | 113     |     |     |     |     |     |
| 50                    |     |     |     |     |     | 114     |     |     |     |     |     |
| 51                    |     |     |     |     |     | 115     |     |     |     |     |     |
| 52                    |     |     |     |     |     | 116     |     |     |     |     |     |
| 53                    |     |     |     |     |     | 117     |     |     |     |     |     |
| 54                    |     |     |     |     |     | 118     |     |     |     |     |     |
| 55                    |     |     |     |     |     | 119     |     |     |     |     |     |
| 56                    |     |     |     |     |     | 120     |     |     |     |     |     |
| 57                    |     |     |     |     |     | 121     |     |     |     |     |     |
| 58                    |     |     |     |     |     | 122     |     |     |     |     |     |
| 59                    |     |     |     |     |     | 123     |     |     |     |     |     |
| 60                    |     |     |     |     |     | 124     |     |     |     |     |     |
| 61                    |     |     |     |     |     | 125     |     |     |     |     |     |
| 62                    |     |     |     |     |     | 126     |     |     |     |     |     |
| 63                    |     |     |     |     |     | 127     |     |     |     |     |     |
| 64                    |     |     |     |     |     | 128     |     |     |     |     |     |



| نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |
|------|-------|----------|------|---------|------------|-----------|-------|
| D03  | 0012  | DT       | PR   | 120     | PEDCO      | GCS       | BK    |

|    |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
|----|------|------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|-------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------|--|------------------------------|--|---------------------------------------------------------------------|-------|--------|---|-------------|-----|--------------------|------------------------|------------------------|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| 1  | Note |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  | Rev                                                                 |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 2  |      | Service Description          |  | LP Flare K.O. Drum                                                                                                            |  | Tag No.           |                                                                                  | V-2201                                                              |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 3  |      | No. Req'd                    |  | 1                                                                                                                             |  | Working           |                                                                                  | 1                                                                   |  | Standby                      |  | 0                                                                   |       | Total  |   | 1           |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 4  |      | Orientation                  |  |                                                                                                                               |  |                   | <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal |                                                                     |  |                              |  | NOZZLE AND MANWAYS                                                  |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 5  |      | ID × Length (TL-TL)          |  | mm                                                                                                                            |  | 1000              |                                                                                  | ×                                                                   |  | 3000                         |  | Nozzle Tag                                                          |       | Qty    |   | Size (inch) |     | Nozzle Description |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 6  |      | P&ID                         |  | BK-GCS-PEDCO-120-PR-PI-0020                                                                                                   |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       | A      |   | 1           |     | 10"                |                        | Inlet (NOTE 4)         |     | D03 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7  |      | OPERATING CONDITIONS         |  |                                                                                                                               |  |                   | HEAD TYPE                                                                        |                                                                     |  |                              |  | B1                                                                  |       | 1      |   | 2"          |     | Liquid Outlet      |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 8  |      | Pressure                     |  | barg                                                                                                                          |  | 0.5               |                                                                                  | 2:1 ellipsoidal                                                     |  |                              |  |                                                                     | B2    |        | 1 |             | 12" |                    | Gas Outlet             |                        | D03 |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 9  |      | Temperature                  |  | °C                                                                                                                            |  | 32                |                                                                                  |                                                                     |  |                              |  |                                                                     | V1    |        | 1 |             | 6"  |                    | Ventilation            |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |      | DESIGN CONDITIONS            |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  | V2                                                                  |       | 1      |   | 2"          |     | Vent               |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 |      | Pressure (Int.)              |  | barg                                                                                                                          |  | 6                 |                                                                                  |                                                                     |  |                              |  |                                                                     | P     |        | 1 |             | 2"  |                    | Pressure Gauge         |                        | D03 |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |      | Pressure (Vac.)              |  |                                                                                                                               |  | F.V               |                                                                                  |                                                                     |  |                              |  |                                                                     | T     |        | 1 |             | 2"  |                    | Temperature Gauge      |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 |      | Temp. (Min.)                 |  | °C                                                                                                                            |  | -29               |                                                                                  |                                                                     |  |                              |  |                                                                     | L 1,2 |        | 2 |             | 3"  |                    | Stand Pipe             |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 |      | Temp. (Max.)                 |  | °C                                                                                                                            |  | 85                |                                                                                  |                                                                     |  |                              |  |                                                                     | M     |        | 1 |             | 20" |                    | Manhole                |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 |      | Design Code                  |  | ASME Section VIII-DIV.1 / IPS-G-ME-150 (LATEST EDITION)                                                                       |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       | D      |   | 1           |     | 2"                 |                        | Drain                  |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 |      | PWHT(Process Reason)         |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                           |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       | L 3,4  |   | 2           |     | 2"                 |                        | Level Transmitter LL   |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 |      | Insulation                   |  | <input type="checkbox"/> Hot <input type="checkbox"/> Cold <input type="checkbox"/> PP <input checked="" type="checkbox"/> No |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       | L 5,6  |   | 2           |     | 2"                 |                        | Level Transmitter HH A |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 |      | MDMT                         |  | °C                                                                                                                            |  | 5                 |                                                                                  |                                                                     |  |                              |  |                                                                     | L 7,8 |        | 2 |             | 2"  |                    | Level Transmitter HH B |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 |      | Fluid                        |  | HC, H2O, CO2, H2S                                                                                                             |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       | L 9,10 |   | 2           |     | 2"                 |                        | Level Transmitter HH C |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |      | Corros. Comp.                |  | -                                                                                                                             |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       | S      |   | 1           |     | 2"                 |                        | Utility Connection     |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |      | Density                      |  | 617~1000                                                                                                                      |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |      | Service Type                 |  | Sour Service                                                                                                                  |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 |      | REQUIRED ACCESSORIES         |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 |      | Boot                         |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                           |  | Vortex Breaker    |                                                                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  | Internal Baffle              |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 |      | Vertical Pump                |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                           |  | Demister Pad      |                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | Internal reinforcement plate |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 |      | Steam Coil                   |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                           |  | Tray              |                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | Inlet Distributor            |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 |      | Inlet Box                    |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                           |  | Electrical Heater |                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | Electrical Heat Tracing      |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 |      | Packing and Relevant Support |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                           |  | Fire Proofing     |                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 34 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 35 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 36 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 37 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 38 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 39 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 41 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 42 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 43 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 44 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 45 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 46 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 47 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 48 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 49 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 50 |      |                              |  |                                                                                                                               |  |                   |                                                                                  |                                                                     |  |                              |  |                                                                     |       |        |   |             |     |                    |                        |                        |     |     |  |  |  |  |  |  |  |  |  |  |  |  |

